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REPORT

OF THE

COMMISSIONER OF PATENTS

TO CONGRESS,

FOR THE YEAR ENDING DECEMBER 31, 1899.

[Laid before the Senate by the Vice-President February 19, 1900, referred to the Committee on Patents, and ordered to be printed.]

DEPARTMENT OF THE INTERIOR,
UNITED STATES PATENT OFFICE,
Washington, D. C., January 31, 1900.

To the Senate and House of Representatives of the United States of America in Congress assembled:

In compliance with section 494 of the Revised Statutes I have the honor to submit the following report of the business of the Patent Office for the year ending December 31, 1899:

RECEIPTS.

Detailed statement of all moneys received for patents, for copies of records or drawings, or from any source whatever.

Applications:	
Cash received	$1,158,650 00
Cash refunded	4,930 00
Net cash	1,153,720 00
Certificates of deposit	34,055 00
Total cash and certificates	1,187,775 00
Copies:	
Cash received	104,892 88
Cash refunded	7,013 57
Net cash	97,879 31
Certificates of deposit	459 67
Total cash and certificates	98,338 98
Recording assignments:	
Cash received	23,849 09
Cash refunded	1,170 02
Net cash	22,679 07
Certificates of deposit	123 00
Total cash and certificates	22,802 07
Subscriptions to Official Gazette:	
Cash received	12,063 15
Cash refunded	66 67
Net cash	11,996 48
Certificates of deposit	37 50
Total cash and certificates	12,033 98
Registration of prints and labels:	
Cash received	5,419 00
Cash refunded	942 00
Net cash	4,477 00
Certificates of deposit	30 00
Total cash and certificates	4,507 00
Aggregates.	
Cash received	$1,304,874 12
Cash refunded	14,122 26
Net cash	1,290,751 86
Certificates of deposit	34,705 17
Total cash and certificates	1,325,457 03

EXPENDITURES.

Approximate amounts expended and incurred under the several appropriations from January 1, 1899, to December 31, 1899.

	Expended.	Estimated liabilities.	Total.
Salaries	$754,408 35		$754,408 35
Scientific library	1,616 15		1,616 15
Transportation of publications to foreign countries	(*)		
International Union for Protection of Industrial Property	700 00		700 00
Stationery	9,357 63		9,357 63
Postage on foreign matter	1,949 00		1,949 00
Furniture	1,807 51		1,807 51
Carpets	306 65		306 65
Ice	437 35		437 35
Telephones	50 00		50 00
Washing towels	87 50		87 50
Sundries	8,246 07		8,246 07
Official Gazette, (illustrations,) paid contractor	51,654 40		51,654 40
Photolithographing, paid contractor	85,541 59		85,541 59
Printing and Binding.			
Paid Public Printer, for Official Gazette, indexes, printing specifications, miscellaneous work	283,796 49	$11,825 04	295,621 53
Total	1,199,958 69	11,825 04	1,211,783 73

* Not accessible.

RECEIPTS AND EXPENDITURES.

Receipts from all sources	$1,325,457 03
Expenditures	1,211,783 73
Surplus	113,673 30

Statement of balance in the Treasury of the United States on account of the patent fund.

Amount to the credit of the fund January 1, 1899	$4,972,976 34
Amount of receipts during the year 1899	1,325,457 03
Total	6,298,433 37
Deduct expenditures for the year 1899	1,211,783 73
Balance January 1, 1900	5,086,649 64

SUMMARY OF THE BUSINESS OF THE PATENT OFFICE.

Number of applications for patents for inventions	38,937
Number of applications for patents for designs	2,400
Number of applications for reissues of patents	106
Total number of applications	41,443
Number of caveats filed	1,716
Number of applications for registration of trade-marks	2,059
Number of applications for registration of labels	629
Number of applications for registration of prints	143
Number of disclaimers filed	1
Number of appeals on the merits	952
Total	5,500

Total number of applications, etc., requiring investigation and action	46,943
Number of patents issued, including designs	25,435
Number of patents reissued	92
Total	25,527
Number of trade-marks registered	1,649
Number of labels registered	511
Number of prints registered	100
Total	2,260
Number of patents expired during the year	18,135
Number of patents withheld for non-payment of final fees	3,997
Number of applications allowed awaiting final fees	8,037

PATENTS ISSUED.

Patents issued to citizens of the United States, with the ratio of population to each patent granted.

States and Territories.	Patents and designs.	One to every—	States and Territories.	Patents and designs.	One to every—
Alabama	88	17,195	Nebraska	164	6,456
Alaska Territory	1	----------	Nevada	11	4,160
Arizona Territory	27	2,208	New Hampshire	122	3,086
Arkansas	98	11,515	New Jersey	993	1,455
California	731	1,652	New Mexico Territory	15	10,238
Colorado	257	1,604	New York	3,798	1,579
Connecticut	789	945	North Carolina	77	21,012
Delaware	42	4,011	North Dakota	51	3,582
District of Columbia	200	1,151	Ohio	1,501	2,446
Florida	54	7,248	Oklahoma Territory	46	1,344
Georgia	131	14,025	Oregon	103	3,046
Hawaii	7	----------	Pennsylvania	2,355	2,232
Idaho	28	3,013	Rhode Island	272	1,270
Illinois	2,152	1,778	South Carolina	46	25,024
Indian Territory	25	----------	South Dakota	62	5,303
Indiana	655	3,347	Tennessee	177	9,984
Iowa	490	3,901	Texas	351	6,368
Kansas	296	4,821	Utah	43	2,509
Kentucky	223	8,332	Vermont	83	4,005
Louisiana	119	9,401	Virginia	213	7,774
Maine	149	4,436	Washington	154	2,268
Maryland	297	3,509	West Virginia	116	6,575
Massachusetts	1,774	1,262	Wisconsin	545	3,095
Michigan	805	2,601	Wyoming	18	3,343
Minnesota	394	3,304	United States Army	7	----------
Mississippi	95	13,574	United States Navy	8	----------
Missouri	776	3,452			
Montana	90	1,474	Total	22,124	----------

Patents granted to citizens of foreign countries.

Algeria	1	Java	3
Argentina	5	Mexico	14
Austria-Hungary	100	Netherlands	13
Belgium	65	New South Wales	32
Bermuda	1	New Zealand	41
Brazil	1	Norway	6
Bulgaria	1	Peru	2
Canada	371	Queensland	5
Cape Colony	1	Russia	25
Chile	1	Scotland	83
China	1	South African Republic	7
Danish West Indies	1	South Australia	10
Denmark	20	Spain	1
Dutch West Indies	1	Sumatra	1
Egypt	1	Sweden	45
England	1072	Switzerland	72
Finland	3	Tasmania	5
France	292	Trinidad	1
Germany	888	Turkey	2
Guatemala	2	Uruguay	2
India	4	Venezuela	1
Ireland	27	Victoria	43
Island of Tahiti	1	Western Australia	7
Italy	23		
Jamaica	4	Total	2,311
Japan	3		

The following tables present a comparative statement of the business of the Patent Office since the enactment of the statute of 1836 and exhibit in detail the business of the Office during the last calendar year:

Comparative statement of the business of the Office from 1837 to 1899, inclusive.

Year.	Applications.	Caveats filed.	Patents and reissues.	Cash received.	Cash expended.	Surplus.
1837	----------	----------	435	$29,289 08	$33,506 98	----------
1838	----------	----------	520	42,123 54	37,338 92	$4,784 62
1839	----------	----------	425	38,019 97	34,543 51	3,476 46
1840	765	228	473	38,056 51	39,020 67	----------
1841	847	312	495	40,413 01	52,666 87	----------
1842	761	291	517	36,505 63	31,241 43	5,264 20
1843	819	315	519	35,315 81	30,776 96	4,538 85
1844	1,045	380	497	42,509 26	36,344 53	6,164 73

Comparative statement of the business of the Office from 1837 to 1899, inclusive—Continued.

Year.	Applications.	Caveats filed.	Patents and reissues.	Cash received.	Cash expended.	Surplus.
1845	1,246	452	503	51,076 14	39,395 65	11,680 49
1846	1,272	448	638	50,264 16	46,158 71	4,105 45
1847	1,531	533	569	63,111 19	41,878 35	21,232 84
1848	1,628	607	653	67,576 69	58,905 84	8,670 85
1849	1,955	595	1,077	80,752 78	77,716 44	3,036 34
1850	2,193	602	993	86,927 05	80,100 95	6,826 10
1851	2,258	760	872	95,738 61	86,916 93	8,821 68
1852	2,639	996	1,019	112,056 34	95,916 91	16,139 43
1853	2,673	901	961	121,527 45	132,869 83	----------
1854	3,324	868	1,844	163,789 84	167,146 32	----------
1855	4,435	906	2,013	216,459 35	179,540 33	36,919 02
1856	4,960	1,024	2,505	192,588 02	199,931 02	----------
1857	4,771	1,010	2,896	196,132 01	211,582 09	----------
1858	5,364	943	3,710	203,716 16	193,193 74	10,522 42
1859	6,225	1,079	4,538	245,942 15	210,278 41	35,663 74
1860	7,653	1,084	4,819	256,352 59	252,820 80	3,531 79
1861	4,643	700	3,340	137,354 44	221,491 91	----------
1862	5,038	824	3,521	215,754 99	182,810 39	32,944 06
1863	6,014	787	4,170	195,593 29	189,414 14	6,179 15
1864	6,972	1,063	5,020	240,919 98	229,868 00	11,051 98
1865	10,664	1,937	6,616	348,791 84	274,199 34	74,592 50
1866	15,269	2,723	9,450	495,665 38	361,724 28	133,941 10
1867	21,276	3,597	13,015	646,581 92	639,263 32	7,318 60
1868	20,445	3,705	13,378	681,565 86	628,679 77	52,886 09
1869	19,271	3,624	13,986	693,145 81	486,430 74	206,715 07
1870	19,171	3,273	13,321	669,456 76	557,147 19	112,309 57
1871	19,472	3,366	13,033	678,716 46	562,091 64	116,624 82
1872	18,246	3,090	13,590	699,726 39	665,595 00	34,131 39
1873	20,414	3,248	12,864	703,191 77	691,178 98	12,012 79
1874	21,602	3,181	13,599	738,278 17	679,288 41	58,989 76
1875	21,638	3,094	14,837	743,453 36	721,657 71	21,795 65
1876	21,425	2,697	15,595	757,987 65	652,542 60	105,445 05
1877	20,308	2,809	14,187	732,342 85	613,152 62	119,190 23
1878	20,260	2,755	13,444	725,375 55	593,082 89	132,292 66
1879	20,059	2,620	13,213	703,931 47	529,638 97	174,292 50
1880	23,012	2,490	13,947	749,685 32	538,865 17	210,820 15
1881	26,059	2,406	16,584	853,665 89	605,173 28	248,492 61
1882	31,522	2,553	19,267	1,009,219 45	683,867 67	325,351 78
1883	34,576	2,741	22,383	1,146,240 00	675,234 86	471,005 14
1884	35,600	2,582	20,413	1,075,798 80	970,579 76	105,219 04
1885	35,717	2,552	24,233	1,188,089 15	1,024,378 85	163,710 30
1886	35,968	2,513	22,508	1,154,551 40	992,503 45	162,047 95
1887	35,613	2,622	21,477	1,144,509 60	994,472 22	150,037 38
1888	35,797	2,251	20,506	1,118,516 10	973,108 78	145,407 32
1889	40,575	2,481	24,158	1,281,728 05	1,052,955 96	228,772 09
1890	41,048	2,311	26,292	1,340,372 66	1,099,297 74	241,074 92
1891	40,552	2,408	23,244	1,271,285 78	1,139,713 35	131,572 43
1892	40,753	2,290	23,559	1,286,331 88	1,110,739 24	175,592 59
1893	38,473	2,247	23,769	1,242,871 64	1,141,038 45	101,833 19
1894	38,439	2,286	20,867	1,187,439 58	1,100,047 12	87,392 46
1895	40,680	2,415	22,057	1,245,246 93	1,106,389 49	138,857 44
1896	43,982	2,271	23,373	1,324,059 83	1,113,413 71	210,646 12
1897	47,905	2,176	23,794	1,375,641 72	1,122,843 13	252,798 59
1898	35,842	1,659	22,267	1,137,734 48	1,136,196 20	1,538 28
1899	41,443	1,716	25,527	1,325,457 03	1,211,783 73	113,673 30

Statement showing the number of the first patent, Design patent, and reissued patent, and the number of the first certificate of registration of a Trade-Mark and a Label issued in each calendar year since July 28, 1836, when the present series of numbers of Letters Patent commenced, together with the total number of each issued during the year.

[The number of patents granted prior to the commencement of this series of numbering (July 28, 1836) was 9,957.]

Calendar Year.	Number of first patent and certificate issued in each calendar year.						Number of patents and certificates of registration issued during each calendar year.							
	Patents.	Designs.	Reissues.	Trade-Marks.	Labels.	Prints.	Patents.	Designs.	Reissues.	Total patents.	Trade-Marks.	Labels.	Prints.	Total certificates.
1836 (July 28)	1						109							
1837	110						436							
1838	546		1				515		6					
1839	1,061		7				404		13					
1840	1,465		20				458		10					
1841	1,923		30				490		6					
1842	2,413		36				488		13					
1843	2,901	1	49				494	14	11	519				
1844	3,395	15	60				478	12	7	497				
1845	3,873	27	67				475	17	11	503				
1846	4,348	44	78				566	59	13	638				
1847	4,914	103	91				495	60	14	569				
1848	5,409	163	105				584	46	23	653				
1849	5,993	209	128				988	49	30	1,067				
1850	6,981	258	158				884	83	26	993				
1851	7,865	341	184				757	90	25	872				
1852	8,622	431	209				890	109	20	1,019				

Statement showing the number of the first patent, Design patent, and reissued patent—Continued.

Calendar Year.	Number of first patent and certificate issued in each calendar year.						Number of patents and certificates of registration issued during each calendar year.							
	Patents.	Designs.	Reissues.	Trade-Marks.	Labels.	Prints.	Patents.	Designs.	Reissues.	Total patents.	Trade-Marks.	Labels.	Prints.	Total certificates.
1853	9,512	540	229				846	86	29	961				
1854	10,358	626	258				1,759	57	28	1,844				
1855	12,117	683	286				1,892	70	51	2,013				
1856	14,009	753	337				2,315	107	83	2,505				
1857	16,324	860	420				2,686	113	97	2,896				
1858	19,010	973	517				3,467	102	126	3,695				
1859	22,477	1,075	643				4,165	108	231	4,504				
1860	26,642	1,183	874				4,363	183	232	4,778				
1861	31,005	1,366	1,106				3,040	142	147	3,329				
1862	34,045	1,508	1,253				3,221	195	116	3,532				
1863	37,266	1,703	1,369				3,781	176	227	4,184				
1864	41,047	1,879	1,596				4,638	139	248	5,025				
1865	45,685	2,018	1,844				6,099	221	296	6,616				
1866	51,784	2,239	2,140				8,874	294	290	9,458				
1867	60,658	2,533	2,430				12,301	325	400	13,026				
1868	72,959	2,858	2,830				12,544	446	420	13,410				
1869	85,503	3,304	3,250				12,957	506	534	13,997				
1870	98,460	3,810	3,784	1			12,157	737	439	13,333	121			121
1871	110,617	4,547	4,223	122			11,687	905	464	13,056	486			486
1872	122,304	5,452	4,687	608			12,200	884	529	13,613	491			491
1873	134,504	6,336	5,216	1,099			11,616	747	501	12,864	492			492
1874	146,120	7,083	5,717	1,591	1		12,230	886	483	13,599	559	232		791
1875	158,350	7,969	6,200	2,150	233		13,291	915	631	14,837	1,138	232		1,370
1876	171,641	8,884	6,831	3,288	465		14,172	802	621	15,595	959	472		1,431
1877	185,813	9,686	7,452	4,247	937		12,920	699	568	14,187	1,216	392		1,608
1878	198,733	10,385	8,020	5,463	1,329		12,345	590	509	13,444	1,455	492		1,947
1879	211,078	10,975	8,529	6,918	1,821		12,133	592	488	13,213	872	355		1,227
1880	223,211	11,567	9,017	7,790	2,176		12,926	515	506	13,947	349	203		552
1881	236,137	12,082	9,523	8,139	2,379		15,548	565	471	16,584	834	202		1,036
1882	251,685	12,647	9,994	8,973	2,581		18,135	861	271	19,267	947	304		1,251
1883	269,820	13,508	10,265	9,920	2,885		21,196	1,020	167	22,383	902	906		1,808
1884	291,016	14,528	10,432	10,822	3,791		19,147	1,150	116	20,413	1,021	513		1,534
1885	310,163	15,678	10,548	11,843	4,304		23,331	773	129	24,233	1,067	391		1,458
1886	333,494	16,451	10,677	12,910	4,695		21,797	595	116	22,508	1,029	378		1,407
1887	355,291	17,046	10,793	13,939	5,073		20,429	949	99	21,477	1,133	380		1,513
1888	375,720	17,995	10,892	15,072	5,453		19,585	835	86	20,506	1,059	327		1,386
1889	395,305	18,830	10,978	16,131	5,780		23,360	723	75	24,158	1,229	319		1,548
1890	418,665	19,553	11,053	17,360	6,099		25,322	886	84	26,292	1,415	304		1,719
1891	443,987	20,439	11,137	18,775	6,403		22,328	836	80	23,244	1,762	137		1,899
1892	466,315	21,275	11,217	20,537	6,540		22,661	817	81	23,559	1,737	*a*6		1,743
1893	488,976	22,092	11,298	22,274	None.	1	22,768	902	99	23,769	1,677	None.	2	1,679
1894	511,744	22,994	11,397	23,951	Do.	3	19,875	928	64	20,857	1,806	Do.	4	1,810
1895	531,619	23,922	11,461	25,757	Do.	7	20,883	1,115	59	22,057	1,829	Do.	3	1,832
1896	552,502	25,037	11,520	27,586	6,546	10	21,867	1,445	61	23,273	1,813	1	32	1,846
1897	574,369	26,482	11,581	29,399	6,547	42	22,098	1,631	65	23,794	1,671	14	16	1,701
1898	596,467	28,113	11,646	31,070	6,561	58	20,404	1,803	60	22,267	1,238	200	35	1,473
1899	616,871	29,916	11,706	32,308	6,761	93	23,296	2,139	92	25,527	1,649	511	100	2,260

*a*Registration of labels practically ceased May 27, 1891, under decision of the United States Supreme Court in *Higgins et al.* v. *Keuffel et al.* (55 O. G., 1139) with the registration of No. 6,545, June 14, 1892. Resumed June 9, 1896, with the registration of No. 6,546.

First Print registered Mar. 7, 1893.

Statement of prices paid for photolithographic work since 1884–85.

Fiscal year.	Contractor.	Patents issued.	Official Gazette.		Publishing expired patents.	Total Official Gazettes.
			Per page.	Number of copies.		
1884–85	Norris Peters	21,496	$7 86	6,500		$39,614 40
1885–86	do	24,134	7 45	6,500		44,351 00
1886–87	do	21,731	7 45	6,500		41,868 40
1887–88	do	20,653	7 45	6,500		41,183 60
1888–89	do	21,518	7 45	6,500		43,999 70
1889–90	do	25,857	7 45	6,500		58,992 40
1890–91	do	25,307	7 45	7,000		65,966 10
1891–92	Norris Peters Co	23,626	7 45	7,000		52,969 50
1892–93	do	23,468	7 45	7,000		54,998 30
1893–94	National Lithographic Co	22,546	6 30	7,000	$4,999 70	49,997 70
1894–95	Norris Peters Co	20,745	5 25	7,000		38,297 88
1895–96	A. B. Graham	22,791	5 10	7,000		42,326 30
1896–97	Norris Peters Co	23,994	4 50	7,000		35,712 00
1897–98	do	22,731	5 10	7,000		39,749 40
1898–99	do	23,590	5 60	7,000		46,065 60
1899–1900	do	*a*26,364	5 60	7,000		*a*54,947 20

Statement of prices paid for photolithographic work since 1884–85—Continued.

Fiscal year.	Contractor.	Drawings of Letters Patent per sheet, current issues.			Other lithographic work.	Total.
		Thin copies.	Thick copies.	Bond copies.		
			Cents.	Cents.		
1884–85	Norris Peters	$0 01	3	3	$78,671 99	$118,286 39
1885–86	do	01	3	3	84,940 19	129,291 19
1886–87	do	01	3	3	79,509 57	121,377 97
1887–88	do	01	3	3	77,907 96	119,091 56
1888–89	do	01	3	3	83,284 54	127,284 24
1889–90	do	01	3	3	101,292 67	160,285 07
1890–91	do	01	3	3	110,998 97	176,965 07
1891–92	Norris Peters Co	*c*1 48	3	3	99,992 58	152,962 08
1892–93	do	*c*1 48	2	3	99,788 92	154,787 22
1893–94	National Lithographic Co	*c*1 46	3	3	94,911 33	144,909 03
1894–95	Norris Peters Co	*c* 95	2	2	60,482 04	98,779 92
1895–96	A. B. Graham	*d* 93 *e* 01	.0175	.0175	58,866 60	101,192 90
1896–97	Norris Peters Co	*d* 80	.015	.01	58,960 78	94,672 78
1897–98	do	*d* 84 *e* 015	.015	.02	68,999 28	103,748 68
1898–99	do	*d* 90 *e* 02	.02	.025	75,999 85	122,065 45
1899–1900	do	*f* 89 *e* 02	.02	.025	*a*92,533 37	*a*147,480 59

a Estimated amounts for current year based upon business for first half of fiscal year 1899–1900. *c* For 102 copies. *d* For 100 copies. *e* Two proof copies each. *f* For 75 copies.

Table showing the number of patents issued by the United States and foreign countries from the earliest period to December 31, 1899. (Foreign figures for 1899 estimated.)

Countries.	To 1870, inclusive.	1871 to 1899.	Total.	Countries.	To 1870, inclusive.	1871 to 1899.	Total.
Austria		20,750	20,750	Mauritius	113	223	336
Austria-Hungary	15,350	67,583	82,933	Mexico	22	2,504	2,526
Bahamas		2	2	Netherlands	4,535		4,535
Barbadoes		112	112	Newfoundland	40	215	255
Belgium	35,044	119,111	154,155	New South Wales	236	8,428	8,664
Bolivia	42	65	107	New Zealand	109	6,550	6,659
Brazil	185	3,200	3,385	Norway	737	8,706	9,443
British Guiana	32	94	126	Portugal	245	2,707	2,952
British Honduras	1	19	20	Queensland	67	4,325	4,392
Canada	4,081	64,429	68,510	Russia	1,464	8,065	10,069
Ceylon	58	439	497	St. Helena		4	4
Chile	20	295	315	South African Republic		1,256	1,256
Denmark	464	9,770	10,234	South Australia	123	4,871	4,994
Fiji Islands		22	22	Spain		22,314	22,314
Finland	112	859	971	Straits Settlements		87	87
France	103,934	204,624	308,558	Sweden	1,629	12,039	13,668
Germany	9,996	116,118	126,114	Switzerland		18,715	18,715
Great Britain	53,408	224,721	278,129	Tasmania	43	1,746	1,789
Guatemala		57	57	Trinidad	6	137	143
Hawaii		161	161	Tunis		249	249
Hong-Kong		63	63	Turkey		662	662
Hungary		12,355	12,355	Venezuela		134	134
India	445	5,641	6,086	Victoria	822	8,795	9,617
Italy and Sardinia	4,723	45,267	49,990	Western Australia		1,917	1,917
Jamaica	22	136	158				
Japan		3,365	3,365	Total foreign	238,108	1,018,367	1,256,475
Leeward Islands		16	16	United States	120,573	529,550	650,123
Liberia		2	2				
Luxemburg		3,875	3,875	Grand total	358,681	1,547,917	1,906,598
Malta		27	27				

SUMMARY OF TABLES.

In 1899 there were received 38,937 applications for patents, 2,400 applications for designs, 106 applications for reissues, 2,059 applications for registration of trade-marks, 629 applications for registration of labels, and 143 applications for registration of prints. There were 25,435 patents granted, including designs, 92 patents reissued, 1,649 trade-marks registered, and 511 labels and 100 prints. The number of patents that expired was 18,135. The number of allowed applications awaiting the payment of final fees was 8,037. The number that were forfeited for non-payment of the final fees was 3,997. The total expenditures were $1,211,783.73. The receipts over expenditures were $113,673.30. The total balance to the credit of the Patent Office in the Treasury of the United States on January 1, 1900, was $5,086,649.64.

In proportion to population more patents were issued to citizens of Connecticut than to those of any other State—1 to every 945 inhabitants. Next in order are the following: District of Columbia, 1 to every 1,151; Massachusetts, 1 to every 1,262; Rhode Island, 1 to every 1,270; Oklahoma Territory, 1 to every 1,344; New Jersey, 1 to every 1,455; Montana, 1 to every 1,474; New York, 1 to every

1,579; Colorado, 1 to every 1,604; California, 1 to every 1,652. The fewest patents granted in proportion to the number of inhabitants were in the following states: South Carolina, 1 to every 25,024; North Carolina, 1 to every 21,012; Alabama, 1 to every 17,195; Georgia, 1 to every 14,025, and Mississippi, 1 to every 13,574.

As to foreign patents, 1,072 patents were granted to residents of England; 888 to those of Germany; 371 to those of Canada; France, 292; Austria-Hungary, 100; Scotland, 83; Switzerland, 72; Belgium, 65; Sweden, 45; Victoria, 43; New Zealand, 41; New South Wales, 32; Ireland, 27; Russia, 25; Italy, 23; Denmark, 20; Mexico, 14; Netherlands, 13; South Australia, 10; South African Republic and Western Australia, 7 each; Norway, 6; Argentina, Queensland, and Tasmania, 5 each; India and Jamaica, 4 each; Finland, Japan, and Java, 3 each; Guatemala, Peru, Turkey, and Uruguay, 2 each, and Algeria, Bermuda, Brazil, Bulgaria, Cape Colony, Chile, China, Danish West Indies, Dutch West Indies, Egypt, Island of Tahiti, Spain, Sumatra, Trinidad, and Venezuela, 1 each.

THE WORK OF THE OFFICE.

The examining work of the Office has been kept well in hand during the year. On December 27, 1898, there were 5,467 applications awaiting action, while on December 26, 1899, 5,392 applications were awaiting action. On December 27, 1898, two divisions were examining applications filed within one month thirty-three divisions those filed within two months, and one division those filed within three months, while on December 26, 1899, thirty-three divisions were examining applications filed within one month, and three divisions those filed within two months. At both dates substantially all of the divisions were taking up amended cases for action within fifteen days after the amendments were filed.

This is a most excellent showing when the disadvantages under which the work is being done are taken into account. The lack of suitable room greatly hampers and unnecessarily delays the work in many divisions.

During the year the work of the clerical divisions has been kept well in hand. The work of furnishing printed copies of specifications and drawings of patents has been placed under the control of one person, and the system adopted by him has been such that single copies have been much more promptly furnished and the class orders are now being filled within a week, where a year ago they were often not filled within three months. With sufficient room to properly arrange these printed copies orders for them could be filled almost as soon as received.

THE CLASSIFICATION DIVISION.

In my annual report for the calendar year 1898 I stated that a classification division had been organized, but that the work had not progressed far enough to enable the Office to determine the best system in all of its details. I am now able to report progress and outline the system adopted.

During the present year considerable progress has been made in the work, but owing to the lack of room the work has been hampered, as it will continue to be until additional space becomes available, as it will when the General Land Office removes from the Patent Office building.

One of the first steps taken was to rearrange the original drawings of all patents in numerical order. The object of this was to economize our storage space and to make it possible to find any given patent at a moment's notice. Formerly the drawings were arranged by subclasses, and as it was necessary to know the classification of a patent before it could be found a long search was often necessitated. The first ten thousand patents had no numbers and were identified only by name and date. This involved additional labor to properly arrange them. The numerical arrangement of the original drawings of nearly seven hundred thousand patents and trade-marks has been completed and lists of patents issued without drawings, and of drawings which have not been found are now being made. When this is completed, the patents for which there are no drawings will be represented by dummies containing the number of the patent and a statement as to whether there were any drawings or whether the same have been lost. These dummies will be filed in their appropriate relation with the original drawings for the purpose of preserving the record.

The classification proper has meanwhile been carried on. One division consisting of eight main classes has been completely classified, and from one to three classes in nine other divisions have been completely or partially classified.

The following plan of classification has been adopted:

Under the provisions of section 4886 of the Revised Statutes a patent is to be granted only when the invention was not known or used by others nor patented or described in any printed publication prior to the invention thereof by the applicant. To ascertain these facts, a search must be made.

The present field of search, which increases greatly every year, consists of about 700,000 United States patents, 1,250,000 foreign patents, and 74,000 volumes of scientific works in the Patent Office Library.

It is the object of classification to reduce this immense mass of matter to classes and subclasses of convenient size, capable of clear separation and definition and based upon a system sufficiently elastic to provide for future growth. Without such classification it would be impossible to examine the 40,000 applications filed annually or to make searches of sufficient accuracy to justify the treatment of a patent as *prima facie* evidence of its validity. Inability to make accurate searches also renders uncertain property rights to the amount of millions of dollars and menaces the security of all manufacturing interests based upon patents.

The first and most difficult step in classification is the separation of the subject-matter into main classes of a character that will bring together such

inventions as are *similar in structure* and *analogous in their use*, both of which elements are essential in their citation as references in the rejection of an application for a patent.

In order that there may be certainty in placing a patent in its proper class, the first rule to be observed is that wherever there is liability to conflict between two or more classes one will be fixed upon as the *superior class* and all the others which are related thereto will be treated as *inferior classes*. This being settled, all patents which *contain more than one invention* or which cover a construction which *combines in a single apparatus or machine* the subject-matter of two or more classes are placed in the *superior class*, and when necessary the *inferior classes* are completed by placing therein copies of these patents, which are known as *cross-references*.

The various kinds of main classes are as follows and rank according to number:

MACHINES.

1. Combination-machines, or such as perform more than one operation; 7. Functional-machine classes, which are defined by the character of the operation performed; 6. Material-machine classes, which are limited to operation upon some particular material; 4. Article-machine classes, which are used solely in the making of a specific article and incapable, without considerable change, of any broader or more general use; 5. Functional-material-machine classes, which are functional machines limited further by the material operated upon; 3. Functional-article-machine classes, which are functional machines limited to the making of a specific article; 2. Material-article-machine classes, which are material classes limited to the making of a specific article; 8. Machine elements, which are mechanical movements or parts which may be found in any class of complete machines.

ARTICLES OF MANUFACTURE.

Articles of manufacture are divided into (1) Finished articles, (2) Structural materials, and (3) Compositions of matter, ranking in the order named. They are only occasionally numerous enough to constitute main classes and are generally grouped according to their function or use and placed in classes with the machines for making them.

PROCESSES OR METHODS.

Processes or methods are divided into (1) Machine processes and (2) Article processes, according as they are most closely related to the machine or the product, and they are placed in the same classes with them.

Having formed proper main classes, the material is next separated into finer divisions, called "subclasses."

The following table indicates the method of dividing a class into subclasses, the figures at the left, under the column headed "Rank," indicating the order of their superiority and determining the placing of doubtful and mixed patents:

Diagram of Patent Office classification.

Rank.		Patentable inventions.					
Statutory divisions.	Subclasses.	Statutory divisions.	Subclasses.	Subclasses.	Subclasses.	Subclasses.	Divisions.
1	-----						Apparatus or machine—
							General utility—
							Combination-machines—
	2						Miscellaneous,
	3						Functional subclasses,
							Single-operation machines—
	6						Miscellaneous,
	7						Structural types—
	8						Structural subdivisions,
	9						Major structure,
	10						Minor structure,
							Special article, making,
							Combination-machines—
	1						Art subclasses,
							Single-operation machines—
	4						Art subclasses—
	5						Structural subdivisions.
2	-----						Article of manufacture or product (grouped by functions)–
							(*a*) Finished articles,
							(*b*) Structural materials—
	12						Miscellaneous,
	13						Articles—
	14						Structural subdivisions,
							(*c*) Compositions of matter—
							Functional classes—
	16						Specific use.
3							Method or process—
	15						Article processes—classified with Article.
	11						Machine processes—classified with Machine.

The subclasses into which Articles of Manufacture and Processes are divided will be readily understood without further explanation than has already been given.

The machines composing the class will be divided into General utility and Special-article-making machines, the subclasses of Special-article-making machines being superior to those of the General-utility group, as indicated by the figures on the left. Each of these groups is then divided into Combination and Single-operation machines, the meaning of which has been before explained. The combination-machine classes are distinguished by titles indicating the number and character of the operations performed, as "Turning and sawing," "Boring and tenoning," &c.

The Single-operation machines of the General-utility group are divided into subclasses ranking as follows: Miscellaneous; Structural-type subclasses, which are complete machines of a definite type, as "Horizontal boring mills;" Major-structure subclasses, which are important portions of a machine, and Minor-structure subclasses, which are less important parts and which may be included in the superior subclasses.

The machines, both Combined and Single-operation, of the Special-article, making, group are formed into Art classes, their names indicating the article made, as "Clothes-pin machines."

As the numbers in the "Rank" column indicate the relative superiority of the subclasses of the forms shown in the table, they serve as a guide in placing the mixed patents which always go, in case of conflict, into that one of the subclasses involved

which has the lowest number and are cross-referenced into the others.

As an example of an actual class divided into subclasses according to this table, the following has been made up of extracts drawn from a recently completed class and containing an example of each type of subclass described. The numbers in the "Rank" column are those which the subclasses bear in the completed class, but correspond relatively to those in the former table.

CLASS 144.—WOODWORKING.

Rank.		
Statutory divisions.	Subclasses.	Statutory divisions. Subclasses. Subclasses. Subclasses. Subclasses.
1		Apparatus or machine—
		General utility—
		Combined machines—
	1	Miscellaneous,
	35	Boring and sawing,
	36	Planing and matching,
		Single-operation machines—
	49	Miscellaneous,
		Planers—
	114	Miscellaneous,
	118	Disk,
	130	Cutter adjustments,
	132	Bit adjustments,
		Special article, making—
	3	Combined machines—
	8	Chair-round tenoning,
	9	Clothes-pin,
		Single or combined—
	21	Disk-cutting—
	23	Rotary tubular cutter.
2		Article of manufacture or product—
	276	Wood-ornamenting, articles.
3		Method or process—
	277	Wood-ornamenting, processes.

CROSS-REFERENCING.

Cross-referencing, as before explained, when necessitated by mixed matter, is always from the *lowest-numbered or superior* subclass into the *inferior or higher-numbered* one.

In some cases cross-referencing is necessary because certain structural features are common to two or more classes or subclasses, and in these cases it may be carried in either or both directions, as desired.

SEARCH-CARDS.

When it would be necessary to cross-reference a considerable portion of one subclass into another, a *search-card* is used instead. This is a card stamped with the title of the subclass in which it is to be placed and containing printed directions to search any other subclasses from which cross-references would otherwise have been drawn.

PRESERVATION OF CLASSIFICATION.

In order that lost copies of patents may be replaced in the files used in searching by the Examiner and the public and to prevent unauthorized changes in the classification, the following records are made:

After a patent has been classified, and also when a new patent is issued, it is stamped by the Classification Division with the number and title of its appropriate class and subclass. A card is then prepared giving the number of the patent and the name of the inventor, and this also is stamped with the proper class and subclass. When brought together in their proper subclasses, these cards constitute a subclass card-index, which will enable the Classification Division to check up any subclass and replace any lost copies. Each of these cards also shows whether the patent is cross-referenced into other subclasses, and the patent is represented in those subclasses by a similar card headed with the word "Cross-Reference."

A numerical list of all the patents issued is also kept in the Classification Division, and the classification of each patent as soon as it is made is entered on this list, so that it can always be ascertained where any patent is placed.

If the classification of any patent is to be changed, the Classification Division is notified, and, if the change is approved, will make a new subclass-card, destroy the old one, and change the classification on the numerical list. As all changes must be made and all stamping done by the Classification Division, no unauthorized changes can occur.

Printed publications will not be taken up until the patents are all reclassified, except in the case of chemical bodies and compositions of matter, which are being embodied in a card-index, and which will be a valuable supplement to the patent classification.

ROOM.

The expectation expressed in my last annual report that "in a few months some additional room will be placed at our disposal" has not yet been realized. The work of the Office in all of its branches is hampered by the lack of necessary room. Even when the General Land Office vacates the Patent Office building, room sufficient for the necessary work of the Office will not be available. The business of this Office increases from year to year, and consequently the necessity for more space, especially for storage purposes, cannot be too strongly emphasized. Some of these records constitute the legal evidence of title of many of the large manufacturing industries of the country, while others disclose the proceedings in this Office when the applications for the issued patents were pending, and it is self-evident that all of these should be preserved in a fireproof building. Their loss would work an incalculable injury not alone to the owners of the patents, but the public in general.

The American Society of Mechanical Engineers, The Patent Bar Association of Chicago, The National Association of Agricultural Implement and Vehicle Manufacturers, as well as other organizations and individuals, have forcefully called to the attention of your honorable bodies the necessity for such a building.

I commend to your careful consideration and heartily approve of Senate Bill No. 1,159, which provides for the construction of a "fireproof building, for the use and accommodation of the Patent Office of the United States, including a Hall of Inventions."

It is now almost universally recognized that this country owes a debt of gratitude to its inventors and progressive manufacturers. In view of the well-known fact that the inventors of the country have paid all of the expenses of carrying on the Patent Office and that this Office has covered into the Treasury over five millions of dollars in excess of all expenditures, no more fitting way of recognizing the value of the patent system to the country can be found than by using this money for the erection of a suitable building in which the business of the Office can be conveniently and safely carried on, and at the same time giving ample space for illustrating the growth of the industrial arts by means of suitable models.

THE SCIENTIFIC LIBRARY.

The efficiency and accuracy of the work of this Office depend to a considerable degree upon its library. It should be kept abreast of the progress in the mechanical and manufacturing arts of the day, and to that end ample appropriations should be made. For years the appropriation for this library has been inadequate. Every effort made to increase it has failed, and authority has been denied to the Commissioner of Patents to dispose of such publications therein contained as are of no special value in its special field and to use the proceeds in the purchase of modern works. No sound reason can be advanced why this authority should not be given.

DESIRED LEGISLATION.

Nothing has impressed me more forcibly during the two years in which I have occupied the position of Commissioner of Patents than the advisability and necessity of limiting the number of appeals in "merit" and "interference" cases. Under the present statutes if an application is rejected by the Principal Examiner an appeal lies to the Board of Examiners-in-Chief, and from that tribunal to the Commissioner of Patents in person, and from him to the Court of Appeals of the District of Columbia.

In interference proceedings the appeals are the same, save that the first appeal is from the Examiner of Interferences. These various appeals necessarily delay the issue of patents, whereby the rights of the public are prejudiced in that the monopoly does not begin to run until the actual issue of patent. The applicants for patents are put to heavy expenses, which to many are a grievous burden.

In my opinion there should be but one appeal in the Patent Office and no appeal to the Court of Appeals of the District of Columbia. The reason why there should be no appeal to the court is that under section 4915 of the Revised Statutes the applicant to whom a patent is refused can prosecute his application in another court and an aggrieved party in an interference proceeding can renew his contest in another court.

I suggest an amendment to the statutes by which the Board of Examiners-in-Chief be abolished and that in their place and in the place of the present Assistant Commissioner there be three Assistant Commissioners appointed who, together with the Commissioner, shall be persons of competent legal knowledge, scientific ability, and well versed in patent law and shall hear all appeals from the Primary Examiner and Examiner of Interferences. The Commissioner, with any two of the Assistant Commissioners or the three Assistant Commissioners, shall have the power to review and determine upon all adverse decisions made by the Principal Examiners upon applications for patents and for reissue patents and of the decisions of the Examiner of Interferences on all questions relating to priority of invention. Such a system will lead to an early decision of the question, limit the number of appeals, thereby relieving inventors from an unnecessary burden, and will end the anomalous condition which now exists, in that one person—the Commissioner of Patents—reviews the decisions made by a board composed of three. Under the present statutes the decisions of the Board of Examiners-in-Chief have not that force and effect that they ought, for the reason that all their decisions are not final and are largely treated in "merit" cases as only applying to the case in hand. The Assistant Commissioners should be appointed for a definite term of years, say six, (the first appointments, however, to be respectively for two, four, and six years.)

While the question of politics manifestly should not and does not to any extent enter into the conduct of the Patent Office, yet in order to overcome any objections that might be offered on that score provision might be made that not more than two of them should be appointed from the same political party.

In view of the fact that aside from the judicial duties of the Commissioner he has to perform executive duties, it may be urged that he should be in harmony with the Administration, and therefore it may be thought best that no change in the manner of his appointment be made.

A bill embodying these features has been introduced, and its enactment as a law will, in my opinion, be beneficial to the patent system.

At the present time an application can be kept alive in the Office for an indefinite number of years, although there is no good reason why at least ninety per cent. of all patents cannot be issued within one year after filing applications therefor. The practice of keeping applications pending in the Patent Office is, in my opinion, reprehensible, as it certainly does not promote the progress of invention, but rather tends to stifle it. If an application does not become involved in an interference, it should not be permitted to remain in the Patent Office more than three years without abridging its life of seventeen years. Were it not for the number of appeals, all interferences could be disposed of within that time. To meet any case of unusual hardship, discretion might be lodged with the Commissioner of Patents to extend the proposed limit of three years.

The Trade-Mark Statutes should be amended so

as to provide for the registration of trade-marks used in interstate commerce. Other amendments are required; but as this subject is being dealt with by the commission appointed in 1898 I refrain from making any further suggestions upon this point.

I am informed that the commissioners appointed under act of Congress approved June 4, 1898, to revise the statutes relating to patents, trade and other marks, &c., recently submitted to Congress a preliminary report comprising a large number of documents bearing on the treaties and conventions between the United States and foreign nations regarding patents and trade-mark protection on some special features of foreign patent and trade-mark laws and on the history of trade-mark legislation in the United States.

I understand that this preliminary report is to be followed shortly by a full report which will include a review of the arrangements entered into between the United States and foreign nations and between foreign nations with respect to patents and trade-marks, of foreign patent and trade-mark laws, and of trade-mark protection in the United States, and will include propositions for such changes in the statutes as are required to give effect to treaty stipulations, as well as such changes as will incorporate into our laws such provisions of foreign patent and trade-mark laws as are deemed advantageous to the public interest and in harmony with our institutions. A feature of this report which is of particular interest will be a proposed revision of the trade-mark law to provide for the registration of trade-marks used in interstate commerce and to encourage a more general registration of trade-marks by reducing the registration fee.

President McKinley in his annual message of December 5, 1899, says:

> Our future progress and prosperity depend upon our ability to equal, if not surpass, other nations in the enlargement and advance of science, industry, and commerce. To invention we must turn as one of the most powerful aids to the accomplishment of such a result.

May not our inventors hopefully look to the Fifty-sixth Congress for aid and effectual encouragement in improving the American patent system?

Respectfully submitted,

C. H. DUELL,
Commissioner.

ALPHABETICAL LIST

OF

PATENTEES FOR THE YEAR 1899.

[Patentees of Designs, Trade-Marks, Labels, and Prints, and parties who have filed Disclaimers follow this in separate indexes, but precede the Alphabetical List of Inventions.]

Name, residence, and invention.	No.	Date.	Monthly volume.		Official Gazette.	
			Specification.	Drawing.	Volume.	Page.
A. B. Dick Company. (See Canode, Frederick B., assignor.)						
A. B. See Manufacturing Company. (See See and Cowperthwait, assignors.)						
A. C. Evans Manufacturing Company. (See Harwood, Leedle, and Reed, assignors.)						
A. E. Dart Union Company. (See Dart, Albert E., assignor.)						
A. Featherstone & Company. (See Jerome, Anthony, assignor.)						
A. H. Barber & Company. (See Kunzer, Louis G., assignor.)						
A. & P. Roberts Company. (See Christie, James, assignor.)						
A. R. Whitney & Company. (See Dixon, Charles A., assignor.)						
Aalborg, Christian. (See Wright and Aalborg.)						
Aamodt, Francis. (See Gorman, Bertsch, and Aamodt.)						
Abarno, Michael. (See Hofe, John G. von, assignor.)						
Abbe, Charles J., Alden, Minn. Adjustable milk-can holder and protector	639,645	Dec. 19	2685	616	89	2430
Abbey, Charles C., and W. C. Philips, Redlands, Cal. Hose-coupling	620,821	Mar. 7	525	112	86	1605
Abbot-Gamble Contracting Company. (See Carroll, Scudder, assignor.)						
Abbott, Adelbert S., Los Angeles, Cal. Sales-book and temporary binder	637,493	Nov. 21	2442	530	89	1448
Abbott, Cary F., Chicopee, Mass. Ash-sifter	627,768	June 27	2895	633	87	2236
Abbott, Edwin R., *et al.* (See Thompson, Sam B., assignor.)						
Abbott, Elmer D., assignor of one-half to J. W. R. Cline, Springfield, Ohio. Combined valve and union	618,971	Feb. 7	314	68	86	871
Abbott, George A., Burnley, Victoria. Filter	625,131	May 16	2161	490	87	1157
Abbott, Harry W., Chicago, Ill. Automatic weighing-machine	627,464	June 27	2337	515	87	2125
Abbott, Henry, New York, N. Y. Eyeglasses or spectacles	618,760	Jan. 31	3600	804	86	764
Abbott, Lynn S., *et al.* (See Getchell, Augustus W., assignor.)						
Abbott, Phillips, trustee. (See Packer, Willard N., assignor.)						
Abbott, William O., Kittanning, Pa., assignor of two-thirds to J. F. Young, New Martinsville, W. Va., and H. S. Evans, Pittsburg, Pa. Fire-escape	636,480	Nov. 7	429	95	89	1008
Abeleven, Frederik A., Samarang, Java. Inflating device for tires of cycles or other vehicles	633,408	Sept. 19	2297	540	88	2185
Abell, Arthur H. (See Johnston and Abell.)						
Abell, Irving, Otisco, Minn. Hame-fastener	633,256	Sept. 19	2003	470	88	2128
Abell, John, Toronto, Canada. Cut-off for portable or other engines	619,110	Feb. 7	598	128	86	927
Abell, John, Toronto, Canada. Threshing-machine	629,758	Aug. 1	1	1	88	721
Abelmann, George W. A., Maywood, Ill. Half-tone plate and making it	639,207	Dec. 19	1875	433	89	2265
Abercrombie, James H., assignor to himself and R. B. Symington, Newark, N. J. Machine for treating incandescent mantles	639,331	Dec. 19	2103	483	89	2313
Abercrombie, James H., assignor to himself and R. B. Symington, Newark, N. J. Machine for treating incandescent mantles	639,332	Dec. 19	2106	484	89	2313
Abercrombie, James H., assignor to himself and R. B. Symington, Newark, N. J. Machine for treating incandescent mantles	639,333	Dec. 19	2110	484, 485	89	2314
Abercrombie, William H., Tacoma, Wash. Bicycle driving mechanism	633,409	Sept. 19	2299	540	88	2185
Åberg, Albert, Podgora, Austria-Hungary. Apparatus for cleaning paper-pulp	630,309	Aug. 8	1085	237	88	951
Abernathy, Henry J., Socorro, assignor of one-half to H. L. Maybery, Patterson, N. Mex. Ter. Bread-board and holder	629,416	July 25	2721	632	88	586
Abernathy, Smith, Keener, Ala. Railway cattle-guard	635,413	Oct. 24	2701	618	89	582
Abraham, Abraham, assignor to Abraham & Strauss, New York, N. Y. Manifolding sales-book	634,438	Oct. 10	887	214	89	195
Abraham, Henri, and L. Marmier, Paris, France. Ozone-generator	632,391	Sept. 5	331	75	88	1772
Abraham, Karl, Kiew, Russia. Universal filter	631,143	Aug. 15	2635	596, 597	88	1274
Abraham & Strauss. (See Abraham, Abraham, assignor.)						
Abrahams, Barnett. (See Brett, William C., assignor.)						
Abrahams, Jacob, Rutland, Vt. Window shade and curtain hanger	617,303	Jan. 3	837	195	86	165
Abrahams, John W., Allegheny, Pa., assignor to C. A. Bertsch, Cambridge City, Ind. Pipe-joining apparatus	628,643	July 11	1333	310, 311	88	278
Abrahamson, Jacob, West Bay City, Mich. Self-heating flat-iron	635,632	Oct. 24	3097	711	89	659
Abrams, Lovina J., *et al.* (See Thurber, Charles F., assignor.)						
Abrams, Moses M., Adams, Ala. Fertilizer-distributer and planter	639,009	Dec. 12	1527	349	89	2184
Abrams, William M., Jr., *et al.* (See Thurber, Charles F., assignor.)						
Abrell, Charles, Alton, Ill. Chameleon top	617,069	Jan. 3	405	99	86	79
Accumulatoren und Elektricitäts-Werke Actien-Gesellschaft, vormals W. A. Boese & Co. (See Hobel, Heinrich F., assignor.)						
Acetylene Gas Apparatus Company. (See Hanson and Stewart, assignors.)						
Acetylene House Lighting Company. (See Swett, Wibra W., assignor.)						
Ach, Fritz, Mannheim, assignor to C. F. Boehringer & Soehne, Waldhof, Germany. Making iso-eugenol and derivatives thereof	631,756	Aug. 22	3761	------	88	1513

Alphabetical list of patentees—Continued.

Name, residence, and invention.	No.	Date.	Monthly volume.		Official Gazette.	
			Spec.	Dr'g.	Vol.	Page.
Ach, Fritz, Mannheim, assignor to C. F. Boehringer & Soehne, Waldhof, Germany. Xanthin derivative and making same	631,757	Aug. 22	3765	------	88	1514
Ach, Fritz, Mannheim, assignor to C. F. Boehringer & Soehne, Waldhof, Germany. Alkyl-xanthin derivative and making same	631,758	Aug. 22	3773	------	88	1514
Ach, Fritz, Mannheim, assignor to C. F. Boehringer & Soehne, Waldhof, Germany. Alkyl-xanthin and making same	631,759	Aug. 22	3777	------	88	1515
Ach, Fritz, Mannheim, assignor to C. F. Boehringer & Soehne, Waldhof, Germany. Alkylized xanthin and making same	631,760	Aug. 22	3781	------	88	1515
Ach, Fritz, Mannheim, assignor to C. F. Boehringer & Soehne, Waldhof, Germany. Preparing alkyl-uric acid	631,761	Aug. 22	3784	------	88	1515
Ach, Fritz, Mannheim, assignor to C. F. Boehringer & Soehne, Waldhof, Germany. Making oxymethylene-uric acid	631,762	Aug. 22	3787	------	88	1515
Ach, Fritz, Mannheim, assignor to C. F. Boehringer & Soehne, Waldhof, Germany. Making uric-acid derivatives	632,828	Sept. 12	1183	------	88	1958
Acheson, Edward G., Buffalo, N. Y. Manufacturing graphite articles	617,979	Jan. 17	2126	------	86	454
Achterberg, Gustav, Port Monmouth, N. J. Sail-reefing device	639,916	Dec. 26	3192	733	89	2548
Acker, Charles E., East Orange, N. J. Process of and apparatus for manufacturing alkali metals	623,691	Apr. 25	2744	629	87	583
Acker, Charles E., East Orange, N. J. Process of and apparatus for manufacturing metallic alloys	623,692	Apr. 25	2746	629	87	583
Acker, Charles E., East Orange, N. J. Process of and apparatus for making caustic alkalies	623,693	Apr. 25	2749	630	87	584
Acker & Co., Finlay. (See Acker, Finlay, assignor.)						
Acker, Finlay, assignor to F. Acker & Co., Philadelphia, Pa. Coffee-pot	635,117	Oct. 17	2119	496	89	454
Ackerman, Howard U., Indianapolis, Ind. Clothes-wringer	627,377	June 20	2165	476	87	2076
Ackerman, Jasper L., Monon, Ind. Safety-lock for breech-loading guns	633,939	Sept. 26	3227	752	88	2382
Ackermann, Alexander J. (See Koob, John F., assignor.)						
Ackermann, Gustav, Charlottenhurg, assignor to Filter and Brautechnische Maschinen-Fahrik Actien-Gesellschaft, vormals L. A. Enzinger, Worms, Germany. Filter-press	638,949	Dec. 12	1410	322	89	2162
Ackley, Jonas K., Carson City, Mich. Washing-machine	636,311	Nov. 7	145	32	89	950
Acklin, Alfred M. (See Patterson and Acklin.)						
Acklin, Alfred M., and W. J. Patterson, assignors to Heyl & Patterson, Pittshurg, Pa. Metal-casting apparatus	633,179	Sept. 19	1845	434	88	2097
Ackroyd & Best. (See Best, William, assignor.)						
Acme Ball Bearing Caster Company. (See Clarke, John J., assignor.)						
Acme Harvester Company. (See Green, Henry, assignor.)						
Acme Pipe Clamp Company. (See Wahlert, Henry A., assignor.)						
Acme Railway and Equipment Company. (See McKeen, Thomas L., assignor.)						
Acme Railway Equipment Company. (See McKeen, Thomas L., assignor.)						
Acme Supply Company. (See Oudin, Charles P., assignor.)						
Actien-Gesellschaft Fuer Patent Verwerthung. (See Lutz, Wilhelm, assignor.)						
Actien-Gesellschaft für Anilin Fabrikation. (See Kirchhoff, Harry, assignor.)						
Actien-Gesellschaft für Anilin Fahrikation. (See Kirchhoff and Haussmann, assignors.)						
Actien-Gesellschaft für Anilin Fahrikation. (See Oelschlaegel, Carl, assignor.)						
Actien-Gesellschaft für Anilin Fahrikation. (See Priehs and Kaltwasser, assignors.)						
Actien-Gesellschaft für Fein Mechanic, vormals Ietter & Scheerer. (See Scheerer, Wilhelm, assignor.)						
Actien-Gesellschaft für Zink-Industrie, vormals Wilhelm Grillo, *et al.* (See Schroeder, Max, assignor.)						
Adair, Addison A., and J. H. D. Rosan, Chicago, Ill., assignors, hy mesne assignments, to said Adair. Sheathing-lath machine	622,790	Apr. 11	1086	252	87	225
Adair, Benjamin F., Wilmington, Del. Trolley	639,880	Dec. 26	3118	717	89	2532
Adair, James, Leet, Pa. Rack for penholders, &c	635,281	Oct. 24	2413	562	89	527
Adair, James, Leet, Pa. Rack for penholders, &c	635,282	Oct. 24	2414	562	89	527
Adair, James, Leet, Pa. Rack for penholders, &c	635,283	Oct. 24	2416	563	89	527
Adair, James, Leet, Pa. Rack for penholders, &c	635,284	Oct. 24	2417	563	89	528
Adair, W. T., *et al.* (See Templeton, William G., assignor.)						
Adam, Agnes S., Washington, D. C. Food grating or shaving machine	623,646	Apr. 25	2663	609, 610	87	567
Adam, Richard, Berlin, Germany. Incandescent burner for liquid fuel	622,585	Apr. 4	723	168	87	137
Adami, Conrad, assignor to American Soda Fountain Company, Boston, Mass. Cooler for soda-water or other aerated liquids	626,450	June 6	435	102	87	1698
Adams, Abraham L., Bridgeport, Conn. Expansion-hit	624,439	May 9	905	204	87	899
Adams, Adam, Peterhorough, England. Semidry or semiplastic brick making machine	636,095	Oct. 31	4024	919, 920, 921	89	853
Adams, Adam, Peterborough, England. Screen or sieve	639,699	Dec. 26	2799	645, 646	89	2469
Adams, Alma H. and G. B., Irvington, N. J. Badge	630,579	Aug. 8	1638	366	88	1056
Adams, Andrew J., assignor of one-half to J. P. Ford, Hamilton, Ala. Convertihle harrow and cultivator	631,767	Aug. 29	3799	846	88	1531
Adams, Arthur L., London, England. Magazine-camera	617,268	Jan. 3	766	179	86	151
Adams, Arthur R., Surrey, England. Electric hattery	618,635	Jan. 31	3377	------	86	719
Adams, August H., Piqua, Ohio. Pipe and nut wrench	618,313	Jan. 24	2777	615	86	590
Adams, Calvin T., New York, N. Y. Vehicle-tire	638,684	Dec. 12	955	213	89	2073
Adams, Charles, New Orleans, La. Boiler feed-water heater	639,128	Dec. 12	1721	397	89	2221
Adams, Charles C., Charlotte, N. C. Interest-indicator	622,098	Mar. 28	2892	652, 653	86	2103
Adams Company. (See Farwell, Fay O., assignor.)						
Adams, Ed., *et al.* (See Rohlin, John, assignor.)						
Adams, Edwin and V. P., Binghamton, N. Y. Hot-air and hot-water heater	626,660	June 13	801	183	87	1789
Adams, George B. (See Adams, Alma H. and G. B.)						
Adams, George E., New Britain, Conn. Stud member for separahle fasteners	617,269	Jan. 3	770	180	86	151
Adams, George E., New Britain, Conn. Separahle fastener	617,624	Jan. 10	1451	331	86	302
Adams, George E., New Britain, Conn. Suspender-huckle	618,761	Jan. 31	3602	804	86	764
Adams, George E., New Britain, Conn. Tool for setting memhers of separahle fasteners	619,651	Feh. 14	1561	355	86	1132
Adams, George E., New Britain, Conn. Separahle fastener	624,896	May 16	1745	394	87	1081
Adams, George E., New Britain, Conn. Stud member for separahle fasteners	627,961	July 4	1	1	88	3
Adams, George E., New Britain, Conn. Stud memher for separahle fasteners	628,618	July 11	1243	290	88	260
Adams, George W., Stoughton, assignor to C. H. Pearson, Brookline, Mass. Clock	633,257	Sept. 19	2003	470, 471	88	2128
Adams, George W., assignor of one-half to P. Gerst, Buffalo, N. Y. Non-refillahle bottle	637,743	Nov. 21	3265	681	89	1650
Adams, Gideon S., Camden, N. J. Combination-tool	635,220	Oct. 17	2299	536	89	488
Adams, Henry H. (See Applehay, Wyly R., assignor.)						
Adams, Henry J., *et al.* (See Addison and Wright, assignors.)						
Adams, Herbert M., Springfield, Mass. Blotter-hath and absorbent material therefor	637,985	Nov. 28	3716	782	89	1760
Adams, Ivers S., Cambridge, Mass. Netting	621,890	Mar. 28	2525	568	86	2031

Alphabetical list of patentees—Continued.

Name, residence, and invention.	No.	Date.	Monthly volume. Spec.	Monthly volume. Drg.	Official Gazette. Vol.	Official Gazette. Page.
Adams, Ivers S., Cambridge, Mass. Netting	621,891	Mar. 28	2526	568	86	2031
Adams, John, Philadelphia, Pa. Knitting-machine	625,234	May 16	2329	531	87	1190
Adams, John A., Salyersville, Ky. Hand-planter	630,020	Aug. 1	551	122	88	833
Adams, John D., *et al.* (See Fisher, Frederick A., assignor.)						
Adams, John D., *et al.* (See McCord, Luther A., assignor.)						
Adams, John J., Marseilles, Ill. Cleaner for corn or other cereals	629,484	July 25	2859	665	88	612
Adams, John Q., Marseilles, Ill. Belt-coupling	624,604	May 9	1212	272	87	957
Adams, John Q., Alexandria, La. Baling-press	625,307	May 23	2475	562	87	1243
Adams, John Q., Jr., Lawn Ridge, Mo. Milk-cooler	630,835	Aug. 15	2075	469	88	1106
Adams, John Q., Manchester, Vt. Clothes-rack	639,489	Dec. 19	2408	555	89	2373
Adams, Leila P. (See Perry, James C., assignor.)						
Adams, Leon G., and C. B. Masters, St. Louis, Mo. Bronzing-machine	623,197	Apr. 18	1859	426	87	390
Adams, Lewis T., Whitman, Mass. Tool for grinding or polishing heels	619,921	Feb. 21	2074	470	86	1257
Adams, Lewis T., Whitman, assignor of one-half to N. Churchill, East Bridgewater, Mass. Upper-folding machine	619,922	Feb. 21	2075	470	86	1257
Adams Manufacturing Company. (See Wellington, Frank E., assignor.)						
Adams, Mary, *et al.* (See Berry, Charles M., assignor.)						
Adams, Robert F., Horse Creek, Ala. Train-despatcher's indicator	623,392	Apr. 18	2209	507	87	461
Adams, Samuel H., Harrogate, England. Siphon	636,610	Nov. 7	677	147	89	1058
Adams, Samuel M., Powhattan, Kans. Cultivator	635,285	Oct. 24	2418	564	89	528
Adams, Silas H., *et al.* (See Huff, George S., assignor.)						
Adams, Stephen, *et al.* (See Addison and Wright, assignors.)						
Adams, Stephen J., Pittsburg, Pa. Molding apparatus	631,493	Aug. 22	3279	746	88	1420
Adams, Stephen J., Pittsburg, Pa. Sand-molding apparatus	631,494	Aug. 22	3282	747	88	1420
Adams, Stephen J., Pittsburg, Pa. Cam mechanism	631,495	Aug. 22	3283	747	88	1420
Adams, Thomas, Jr. (See Williams, John A., assignor.)						
Adams, Thomas E., Cleveland, Ohio. Electric-arc lamp	637,060	Nov. 14	1596	345, 346	89	1268
Adams, Vernon P. (See Adams, Edwin and V. P.)						
Adams, Walter S., assignor to J. A. Brill, Philadelphia, Pa. Pivotal car-truck	637,544	Nov. 21	2535	549, 550	89	1465
Adams & Westlake Company. (See Bartholomew and Emery, assignors.)						
Adams & Westlake Company. (See Emery, Plato G., assignor.)						
Adams & Westlake Company. (See Hamm, William S., assignor.)						
Adams & Westlake Company. (See Mosher, John A., assignor.)						
Adams, William F., Meridian, assignor of three-fourths to G. M. Scales, G. T. Halley, J. D. Thomas, Iredell, and W. A. Agee, Hamilton county, Tex. Car-coupling	629,884	Aug. 1	248	56	88	768
Adams, William H. (See Burt, Allen D., assignor.)						
Adams, William Q., Portland, Oreg. Composition of matter for blacking and polishing stoves	619,923	Feb. 21	2077	------	86	1258
Adams, William T., assignor to Reading Hardware Company, Reading, Pa. Door-holder	618,818	Feb. 7	1	1	86	803
Adams, William T., Reading, Pa., assignor to Reading Hardware Company, of Pennsylvania. Transom-lifter	626,213	June 6	1	1	87	1615
Adams, William W., and H. McGeorge, assignors to Electric Controller and Supply Co., Cleveland, Ohio. Electric controller	625,632	May 23	3037	691, 692	87	1353
Adams, Wilson S., Kansas City, Kans., assignor of one-half to L. Hammick, Kansas City, Mo. Gas-regulator	635,733	Oct. 31	3297	760	89	711
Adamson, Charles W., New York, N. Y. Lacing hook or stud	621,734	Mar. 21	2209	498	86	1955
Adcock, Haselwood C., and A. F. Lyle, Worthing, England. Machine for filling screw-stoppered bottles	630,790	Aug. 8	1988	450	88	1124
Addicks, Walter R., Brookline, Mass. Heating apparatus	634,126	Oct. 3	271	67	89	57
Addicks, Walter R., Brookline, Mass., and J. H. Williamson, Bethel, Conn.; said Williamson assignor to said Addicks. Boiler	634,127	Oct. 3	276	67	89	58
Addis, John W., Marshall, Tex. Uncoupling device	620,558	Mar. 7	1	1	86	1503
Addison, William T., and G. Wright, assignors of three-fifths to H. J. and S. Adams, New Castle, Ind. Fire-escape	638,950	Dec. 12	1411	322	89	2162
Addressograph Company. (See Duncan, Joseph S., assignor.)						
Adiassewich, Alexander, London, England. Apparatus for distilling petroleum, &c.	629,536	July 25	2959	690	88	632
Adkins, William W., Jacksonville, Miss. Hame-hook	636,096	Oct. 31	4026	922	89	853
Adler, Arthur J., *et al.* (See Miller, Aaron D., assignor.)						
Adler, Eli. (See Dawson, Charles, assignor.)						
Adler, George W., Philadelphia, Pa. Tawing skins	638,685	Dec. 12	957	------	89	2073
Adler, Henry, Anthon, Iowa. Harrow	632,228	Sept. 5	1	1	88	1709
Adler, Henry, Allegheny, Pa. Gas-heater	633,061	Sept. 12	1584	369	88	2034
Adler, Henry, Allegheny, Pa. Oven	639,646	Dec. 19	2686	616	89	2431
Adler, Ludvig. (See Pedersen, Adler, and Holst.)						
Adler, Simon J., *et al.* (See Miller, Aaron D., assignor.)						
Adler, Solomon, San Francisco, Cal. Loose-leaf binder and ledger	632,392	Sept. 5	334	76	88	1772
Adler, William. (See Fleetwood, John W., assignor.)						
Adriance, Platt & Company. (See Case, Henry J., assignor.)						
Adt, John B., Baltimore, Md. Drying apparatus	622,431	Apr. 4	418	96, 97	87	78
Advance Specialty Company. (See Wright, Charles D., assignor.)						
Advance Thresher Company. (See McCutcheon, John B., assignor.)						
Advance Water Heater Company. (See Reis, Isaac E., assignor.)						
Aeolian Company. (See Chase, Joseph H., assignor.)						
Aeolian Company. (See Davis, George H., assignor.)						
Aeolian Company. (See Herr, Homer A., assignor.)						
Aeolian Company. (See Pain, Robert W., assignor.)						
Aerators, Limited. See Murray, Kenneth S., assignor.)						
Aermotor Company. (See Dyer, Robert M., assignor.)						
Aero-Pulverizer Company. (See Whedon, William M., assignor.)						
Aeschbacher, Jacob G., Rosario, Argentina. Firearm	640,070	Dec. 26	3474	797	89	2606
Afford, Frank H., *et al.* (See Humphrey, John D., assignor.)						
Agar, John, East Orange, N. J. Hat-brim-curling machine	624,897	May 16	1746	394	87	1081
Agar, John, East Orange, N. J. Smoothing-iron for hats	635,633	Oct. 24	3099	711	89	660
Agee, William A., *et al.* (See Adams, William F., assignor.)						
Agge, Franklin, Salem, and W. B. Nye, Brookline, Mass., assignors, by mesne assignments, to New York Filter Manufacturing Company, of New Jersey. Filter	617,870	Jan. 17	1937	434, 435	86	417
Agge, Franklin, Salem, and W. B. Nye, Brookline, Mass., assignors, by mesne assignments, to New York Filter Manufacturing Company, of New Jersey. Filter	617,871	Jan. 17	1941	435	86	418
Aglar, Francis B., St. Louis, Mo., assignor to Hollow Universal Brake Beam Company, East St. Louis, Ill. Brake-beam	619,245	Feb. 7	843	185	86	978
Agnew, William C., assignor of one-half to F. Blackmore, Creston, and E. C. Oakland, Ogle county, Ill. Veterinary poultice-boot	630,310	Aug. 8	1087	237	88	951
Ahern, Alexander, and J. A. Martin, Rice Lake, Wis. Hammer	624,720	May 9	1410	316	87	996
Ahlbury, Olif, Clyde, Kans. Running-gear	620,210	Feb. 28	2596	590	86	1369

Alphabetical list of patentees—Continued.

Name, residence, and invention.	No.	Date.	Monthly volume. Spec.	Monthly volume. Dr'g.	Official Gazette. Vol.	Official Gazette. Page.
Ahlfors, Alfred, Eslöf, Sweden. Organ for reinforcing melody tones	624,721	May 9	1412	316	87	997
Ahrens, Emil, Halle-on-the-Saale, Germany. Tile	628,737	July 11	1491	345	88	311
Ahrens, Fredrech, New York, N. Y. Projectile	620,400	Feb. 28	2917	668	86	1431
Ahrens, Howard E., assignor of three-fifths to J. S. Ahrens, H. Smith, Reading, and C. M. Richardson, Bernville, Pa. Acetylene-gas generator	631,391	Aug. 22	3093	700	88	1383
Ahrens, James S., *et al.* (See Ahrens, Howard E., assignor.)						
Aid, Fred, *et al.* (See McDonald, Charles W., assignor.)						
Aid, George, *et al.* (See McDonald, Charles W., assignor.)						
Aidlott, William F., Hiattville, Kans. Draft-equalizer	620,528	Feb. 28	3126	715	86	1472
Aiken, Edward F., *et al.* (See Ayers, Wilson D., assignor.)						
Aiken, Henry, Pittsburg, Pa. Casting apparatus	632,331	Sept. 5	226	53	88	1751
Aikin, John G., Stockton, Ala. Bill-file	620,211	Feb. 28	2597	590	86	1369
Ainsworth, Warren W. (See Voorhees and Ainsworth.)						
Aishton, George F., Rochester, N. Y. Spinning-top	628,644	July 11	1335	311	88	278
Aizenman, Raphal, New York, N. Y. Easel for supporting and exhibiting photograph-albums	627,792	June 27	2940	643	87	2244
Ajax Manufacturing Company. (See Blakeslee, John R., assignor.)						
Akard, David N., Mill Point, Tenn. Invalid-cup	632,687	Sept. 12	917	214	88	1903
Akens, William H., Linesville, Pa. Sash-fastener	629,284	July 18	2464	573	88	514
Akerberg, Olof, assignor of one-fourth to N. Anderson, Burlington, Iowa. Ship	639,334	Dec. 19	2115	485 486 487	89	2315
Akers, Charles L., Louisville, Ky. Nozzle for syringes	633,557	Sept. 26	2547	598	88	2247
Akers, Earl C., Port Huron, Mich. Device for operating elevator landing-doors	624,898	May 16	1749	395	87	1081
Akers, Earl C., Port Huron, Mich. Bottle-cork fastener	632,981	Sept. 12	1451	336	88	2007
Akers, Earl C., assignor of one-half to R. E. Moss, Port Huron, Mich. Pocket cash-register	619,924	Feb. 21	2078	471	86	1258
Akin, Henry F., Maywood, assignor to Norton Brothers, Chicago, Ill. Tin-plate-cleaning machine	623,347	Apr. 18	2129	489	87	445
Akron Trolley Wheel Company. (See Hitch, Albert E., assignor.)						
Aktiebolaget Arvid Bohlmarks Lampfabrik. (See Holmqvist, Carl G., assignor.)						
Aktiebolaget de Lavals Angturbin. (See Sciama and Sosnowski, assignors.)						
Aktiebolaget Radiator, Stora Kräftriket. (See Salenius, Erik G. N., assignor.)						
Aktiebolaget Separator. (See Alfvén, David, assignor.)						
Aktiebolaget Separator. (See Berrigan, John J., assignor.)						
Aktien-Gesellschaft, Fahrrad and Maschinenfabrik, vormals H. W. Schladitz. (See Dallmer, Albert E. T., assignor.)						
Albee, George E., New Haven, Conn. Fore-and-aft-rigged vessel	625,132	May 16	2161	490	87	1157
Alberene Stone Company. (See Hattersley, John T., assignor.)						
Albert, Charles F., Philadelphia, Pa. String-protector and finger-board cover for stringed instruments	633,776	Sept. 26	2966	688	88	2330
Albert, James W., Auburn, N. Y. Drill-chuck	635,458	Oct. 24	2790	637	89	600
Alberts, Frank. (See Elliott and Alberts.)						
Albertson, Sarah A., De Funiak Springs, Fla., assignor of one-third to J. A. Jordon, Hot Springs, Ark. Washing-machine	631,357	Aug. 22	3024	685	88	1370
Albes, Charles E., *et al.* (See Flanigan, Joseph H., assignor.)						
Albes, Theodore, St. Louis, Mo. Garbage-holder	618,314	Jan. 24	2778	616	86	590
Albrecht, Adolf, Berlin, Germany. Lamp-burner for incandescent mantles	638,686	Dec. 12	959	213	89	2073
Albree, Chester B., Allegheny, Pa. Clamp for pipes, shafts, &c	630,641	Aug. 8	1750	392	88	1076
Albree, Chester B., Allegheny, Pa. Motor for tools	638,489	Dec. 5	580	120	89	1977
Albree, Chester B., Allegheny, Pa. Motor for tools	638,490	Dec. 5	583	120	89	1978
Albright, Sarah F., Sidney, Ohio. Tea-kettle	618,762	Jan. 31	3603	804	86	764
Albro, Stephen V., *et al.* (See Mitchell, Frank H., assignor.)						
Alcatraz Company. (See Bell, Arthur F. L., assignor.)						
Alden, Charles A., and M. D. Pratt, Steelton, Pa. Saw-grinding machine	626,451	June 6	436	103	87	1698
Alden, Charles C., Medford, Mass. Caster	639,129	Dec. 12	1724	397	89	2222
Alden, Herbert W. (See Maxim, Pope, and Alden.)						
Alden, Herbert W., Hartford, Conn., assignor, by mesne assignments, to Columbia and Electric Vehicle Company, Jersey City, N. J. Brake	630,281	Aug. 1	1013	223	88	922
Alden, Leo D., assignor to Jackson & Church, Saginaw, Mich. Bark-peeling machine	623,061	Apr. 11	1568	362	87	320
Alden Type Machine Company. (See Johnson and Low, assignors.)						
Alden Type Machine Company. (See Low, Abbot A., assignor.)						
Alderman, Ira D., Waycross, N. C. Luggage-carrier for bicycles	628,294	July 4	651	151	88	126
Aldrich, Lorin, Indian Orchard, Mass. Valve	617,214	Jan. 3	668	155	86	130
Aldrich, Timothy G. (See Warner, Albert O., assignor.)						
Aldridge, Maddison, *et al.* (See Barr, Addison, assignor.)						
Alexander, Charles C., Bayonne, N. J. Tile	627,378	June 20	2167	477	87	2076
Alexander, Henry C., assignor of one-half to R. B. Alexander and J. L. Sewell, Erastus, Ga. Combined hames and collar	632,164	Aug. 29	4512	1015	88	1672
Alexander, James W., Bridgeport, Ohio. Smoke-consumer	621,197	Mar. 14	1231	271	86	1753
Alexander, Jesse, New York, N. Y. Adjustable handle-bar for bicycles	625,308	May 23	2477	562	87	1243
Alexander, Jesse, assignor of one-half to F. L. Browne, New York, N. Y. Adjustable handle-bar for bicycles	622,938	Apr. 11	1362	312	87	278
Alexander, Oliver A., San Francisco, Cal. Open fire-door for furnaces	632,615	Sept. 5	729	168	88	1851
Alexander, Robert B., *et al.* (See Alexander, Henry C., assignor.)						
Alexander, Robert L., Stoutland, Mo. Corn-cultivator	617,455	Jan. 10	1142	260	86	240
Alexander Smith & Sons Carpet Company. (See Tymeson and Borland, assignors.)						
Alexander, Thomas S. (See Dobson and Alexander.)						
Alexander, Urbana D., Cannonsburg, Pa. Wire-handle-forming machine	617,704	Jan. 17	1605	362	86	351
Alexander, Urbana D., Cannonsburg, Pa. Elbow for stovepipes	627,633	June 27	2666	585	87	2191
Alexander, William, Birkenhead, England. Machine for making milling-cutters	622,791	Apr. 11	1088	252 253	87	226
Alexander, William P., *et al.* (See Cole, Samuel C., assignor.)						
Alfson, Andrew, assignor of one-half to J. F. Hearnshaw, Chicago, Ill. Magazine-gun	638,677	Dec. 5	933	208 209	89	2049
Alfvén, David, assignor to Aktiebolaget Separator, Stockholm, Sweden. Centrifugal machine	632,616	Sept. 5	730	168	88	1851
Alfvén, David, assignor to Aktiebolaget Separator, Stockholm, Sweden. Centrifugal machine	632,617	Sept. 5	733	169	88	1852
Algeo, Bradley C., Oreland, Pa., assignor to A. B. Fiedler & Sons, Chicago, Ill. Skirt-protector	621,312	Mar. 21	1453	322	86	1809
Alger, Arthur H., Brockton, assignor to F. T. Kenah, Boston, Mass. Box	628,379	July 4	805	187	88	154
Alkire, John D., Jr. (See Bonfils and Alkire.)						
Allard, Armand J. (See Grimoin-Sanson and Allard.)						
Allard, Henry D. (See Evans and Allard.)						
Allard, Henry D. (See Evans, Allard, and Kenison.)						
Allderdice, William H., U. S. Navy. Back-pedaling brake	626,194	May 30	4182	951	87	1586

Alphabetical list of patentees—Continued.

Name, residence, and invention.	No.	Date.	Monthly volume. Spec.	Monthly volume. Dr'g.	Official Gazette. Vol.	Official Gazette. Page.
Allen, Aaron, Philadelphia, Pa. Machine for trimming paper	632,434	Sept. 5	400	91	88	1786
Allen, Aaron, and E. Moreau, Philadelphia, Pa.; said Moreau assignor to said Allen. Clutch	627,316	June 20	2036	448	87	2050
Allen, Alexander, Philadelphia, Pa. Nursing-vest	621,761	Mar. 21	2272	512	86	1967
Allen, Alonzo W., assignor of one-half to J. W. Argubright, Streator, Ill. Fly-trap	618,370	Jan. 24	2872	637	86	608
Allen, Anna R., *et al.* (See Allen, Lemuel E., assignor.)						
Allen, Arthur S., Boston, Mass. Mat	617,625	Jan. 10	1452	331	86	302
Allen, Arthur S., Boston, Mass. Tympan for printing-presses	629,183	July 18	2302	534	88	485
Allen, Arthur S., Boston, Mass. Broom-handle	634,637	Oct. 10	1228	292	89	261
Allen, Augustus V., Joplin, Mo. Means for securing elevator-buckets to their belts	629,707	July 25	3253	757	88	688
Allen, Charles C., Kansas City, Mo. Dental dam	629,324	July 25	2553	594	88	551
Allen, Charles E., assignor to R. Wallace & Sons Manufacturing Company, Wallingford, Conn. Hand-mirror	617,626	Jan. 10	1453	331	86	302
Allen, Charles M., Basin, Mont. Calcining-furnace	633,777	Sept. 26	2967	688, 689	88	2330
Allen, Charles R., San Francisco, Cal. Portable vessel-loading platform	629,975	Aug. 1	460	99	88	814
Allen, Charles W., Manasquan, N. J. Shovel	636,738	Nov. 14	983	210	89	1147
Allen, Edward B., Elizabeth, N. J., assignor to Singer Manufacturing Company, of New Jersey. Carpet-sewing apparatus	619,820	Feb. 21	1891	431, 432	86	1222
Allen, Edward B., Elizabeth, N. J., assignor to Singer Manufacturing Company, of New Jersey. Feeding mechanism for sewing-machines	623,271	Apr. 18	1995	457	87	418
Allen, Elbridge G., Boston, Mass. Street-railway car	618,047	Jan. 24	2265	505	86	495
Allen, Elbridge G., Boston, Mass. Street-railway car	622,656	Apr. 11	869	199, 200	87	185
Allen, Francis R. (See Marsh, Edward B., assignor.)						
Allen, Frank, Memphis, Tenn. Window-sash holder	638,617	Dec. 5	813	175	89	2021
Allen, Frank, assignor to Allen Ice Machine Company, New York, N. Y. Absorption refrigerating-machine	638,491	Dec. 5	585	120, 121	89	1978
Allen, George E., Tewksbury, Mass. Shade-roller bracket	618,315	Jan. 24	2779	616	86	591
Allen, George W., assignor of three-fourths to E. F. Lewis and F. B. Perry, Taunton, Mass. Lacing-hook-setting machine	628,738	July 11	1492	345, 346	88	311
Allen, Herbert H., Brooksville, Fla. Whiffletree-hook	630,836	Aug. 15	2077	469	88	1166
Allen, Herbert H., Brooksville, Fla. Plow attachment for regulating depth of furrows	633,940	Sept. 26	3229	752	88	2382
Allen, Herbert L., Hartford, Conn. Telephone-index	627,465	June 27	2340	515	87	2126
Allen, Horace R., Jr., Indianapolis, Ind. Means for sealing or unsealing cans	629,843	Aug. 1	165	38	88	753
Allen Ice Machine Company. (See Allen, Frank, assignor.)						
Allen, Irving W., St. Joseph, Mich. Book	633,109	Sept. 19	1715	403	88	2071
Allen, John A., Harper, Kans. Mowing-machine	639,335	Dec. 19	2117	487	89	2316
Allen, John R. (See Roszell, Stephen S., assignor.)						
Allen, John V., Weymouth, Mass. Inner sole	621,198	Mar. 14	1232	271	86	1753
Allen, Joseph J. (See Heffner, Allen, and Collier.)						
Allen, Lemuel E., assignor to A. R. Allen and W. J. Poyser, Canton, Ohio. Soft-tread horseshoe	627,085	June 20	1617	354	87	1965
Allen, Ned B., *et al.* (See Nelson, Edward E., assignor.)						
Allen, Nilsson, Griggsville, Ill. Embroidery-frame	623,301	Apr. 18	2048	470	87	429
Allen, Philip. (See Kelly, George, assignor.)						
Allen, Samuel H. (See Thompson and Allen.)						
Allen, Samuel L., Moorestown, N. J. Agricultural implement	618,316	Jan. 24	2780	616	86	591
Allen, Samuel L., Moorestown, N. J. Cultivator implement	618,553	Jan. 31	3237	718, 719	86	692
Allen, Samuel L., Moorestown, N. J. Cultivator	619,382	Feb. 14	1088	245, 246	86	1042
Allen, Virgil D., Columbus, Ohio. Cake-baking pan	616,871	Jan. 3	1	1	86	3
Allen, Walter M. (See Swasey and Allen.)						
Allen, William B. (See Korfhage, Charles, assignor.)						
Allen, William B., assignor to Premier Manufacturing Company, Hartford, Conn. Roller-bearing	627,962	July 4	2	1	88	3
Allen, William C. (See Church and Allen.)						
Allen, William D., Huntsville, Ala. Alloy	624,605	May 9	1213	------	87	957
Allen, William D., Huntsville, Ala. Making metallic castings	639,130	Dec. 12	1724	398	89	2222
Allen, William E., Salem, Mass., assignor to Draper Company, Portland, Me., and Hopedale, Mass. Warp stop-motion for looms	640,154	Dec. 26	3617	832	89	2635
Allen, William G. (See Grove, James N., assignor.)						
Allen, William H., Saugatuck, Mich. Sprayer	638,435	Dec. 5	477	97	89	1958
Allen, William M., Lena, Ohio. Floor-set	624,147	May 2	386	78	87	774
Allen, William O., Billings, Mont. Tooth-crown holder	624,722	May 9	1412	316	87	997
Aller, Edward W., assignor to Heller, Aller & Co., Napoleon, Ohio. Automatic pressure house-tank	631,604	Aug. 22	3495	789	88	1464
Alley, Frederick L. (See Winkley and Alley.)						
Alley, Frederick L., Lynn, Mass., assignor to Goodyear Shoe Machinery Company, Portland, Me., and Boston, Mass. Rough-rounding and channeling machine	625,633	May 23	3038	692	87	1353
Alley, Henry C., Sinnett, Okla. Ter. Tire-tightener	630,311	Aug. 8	1087	237	88	951
Allfree, James B., Indianapolis, Ind. Valve-gear and governor mechanism for steam-engines	627,886	June 27	3109	681	87	2276
Allfree, James B., Indianapolis, Ind. Valve-gear and governing mechanism for steam-engines	627,887	June 27	3112	681	87	2277
Allgemeine Electricitäts Gesellschaft. (See Hummel, Georg, assignor.)						
Allgier, Andrew. (See Vander Stel, John, assignor.)						
Allgood, Andrew C., Henderson, N. C. Spinning-frame attachment	624,148	May 2	387	79	87	774
Alliger, Jesse B., Chattanooga, Tenn. Barrel	639,193	Dec. 12	1847	425	89	2245
Allington, William E., Saginaw, Mich. Fan-blower heating apparatus	623,348	Apr. 18	2130	489, 490, 491	87	445
Allington, William E., Saginaw, Mich. Heating and ventilating or refrigerating apparatus and system	632,506	Sept. 5	533	123, 124	88	1813
Allington, William E., Saginaw, Mich. Fan-blower heating apparatus	632,507	Sept. 5	536	124, 125	88	1813
Allington, William E., Saginaw, Mich. Drying apparatus	632,508	Sept. 5	539	125	88	1813
Allis, Thomas V., Bridgeport, Conn. Bracket	624,723	May 9	1414	317	87	997
Allison, Alphonso R., assignor to Universal Stripping Machine Company, Richmond, Va. Tobacco-leaf-stemming machine	622,587	Apr. 4	727	168, 169	87	138
Allison, Alphonso R., assignor to Universal Stripping Machine Company, Richmond, Va. Tobacco-stemming machine	622,588	Apr. 4	731	169	87	139
Allison, Alphonso R., assignor to Universal Stripping Machine Company, Richmond, Va Tobacco-leaf-stemming machine	624,440	May 9	906	204	87	899

Alphabetical list of patentees—Continued.

Name, residence, and invention.	No.	Date.	Monthly volume. Spec.	Monthly volume. Dr'g.	Official Gazette. Vol.	Official Gazette. Page.
Allison, Alphonso R., and C. E. Buek, assignors to Universal Stripping Machine Company, Richmond, Va. Tobacco-leaf-stemming machine	622,586	Apr. 4	725	168	87	138
Allison, Charles L., assignor of one-half to F. W. Mitchell, Leaf River, Ill. Vulcanizer	636,739	Nov. 14	984	210	89	1147
Allison, Daniel K., Dayton, Ohio. Lifting-jack	637,494	Nov. 21	2443	530	89	1448
Allison, J. W., trustee. (See Rein, Gustavus, assignor.)						
Allison, John T. (See Ray and Peak, assignors.)						
Allison, William. (See Zinn, Harley A., assignor.)						
Allison, William D., Indianapolis, Ind. Cabinet	622,195	Apr. 4	1	1	87	3
Allspaugh, Ivan W., Stockton, Cal. Printer's rule, circle, &c	631,060	Aug. 15	2496	565	88	1248
Allsup, Daniel B., and S. M. Wootan, Castell, Tex. Gate	619,652	Feb. 14	1562	356	86	1132
Allyne, Edmund E., and R. G. Anderson, Cleveland, Ohio. Gas-engine	622,876	Apr. 11	1258	291	87	258
Alm, Hans A., Hankinson, N. D. Stamp-handle	632,668	Sept. 5	851	198	88	1878
Alma, Maximilian, and E. Weiss, Vienna, Austria-Hungary. Buffer	632,688	Sept. 12	918	214	88	1903
Almon, Joseph E., Montpelier, Vt. Wood-dressing machine	622,432	Apr. 4	420	97	87	78
Almon, Joseph E., Montpelier, Vt. Instrument for cutting grooves in cylindrical holes in rocks	629,145	July 18	2241	519	88	474
Almond, Thomas R., Dunwoodie Heights, N. Y. Rotary engine	622,318	Apr. 4	212	48	87	40
Almond, Thomas R., Dunwoodie Heights, N. Y. Automobile	639,490	Dec. 19	2409	555	89	2373
Almonte, Bernard, Boston, Mass. Mirror-holder	620,401	Feb. 28	2918	668	86	1432
Almy, Darwin, assignor to Almy Water Tube Boiler Company, Providence, R. I. Feed-water regulator	617,517	Jan. 10	1243	284	86	262
Almy, Darwin, assignor to Almy Water Tube Boiler Company, Providence, R. I. Water-tube steam-generator	624,606	May 9	1213	273	87	957
Almy, Darwin, assignor to Almy Water Tube Boiler Company, Providence, R. I. Steam-generator	624,607	May 9	1215	273	87	958
Almy Water Tube Boiler Company. (See Almy, Darwin, assignor.)						
Alpe, Robert J., county of Warwick, England. Puzzle	632,982	Sept. 12	1452	337	88	2007
Alperin, Nathan, New York, N. Y. Extension-table	623,062	Apr. 11	1569	362	87	320
Alsbau, Mary J. (See Just, Thomas W., assignor.)						
Alsberg, Samuel, Chicago, Ill. Support for stools, chairs, &c	632,304	Sept. 5	183	41	88	1743
Alsip, Samuel H., Belleville, Ill. Grate	633,332	Sept. 19	2155	504	88	2158
Alsop, Charles R., assignor of one-half to G. A. Coles, Middletown, Conn. Gas-engine	618,972	Feb. 7	316	68, 69	86	871
Alsop, James. (See Brightmore, James, assignor.)						
Alspaugh, Orlando C., assignor of one-half to D. Kinney, Newton, Kans. Passenger-register	627,639	June 27	3024	660, 661	87	2260
Altenbaugh, William F., Tiffin, Ohio. Ice-tongs	621,199	Mar. 14	1233	271	86	1753
Altenbaugh, William F., Tiffin, Ohio, assignor of one-half to G. Beatty, Rochester, Pa. Machine for automatically ladling glass in manufacturing glassware	618,973	Feb. 7	325	69, 70	86	872
Altenbaugh, William F., Tiffin, Ohio, assignor of one-half to G. Beatty, Dunkirk, Ind. Machine for automatically gathering and delivering glass in manufacturing glassware	618,974	Feb. 7	333	71, 72	86	875
Altenbaugh, William F., Tiffin, Ohio, assignor of one-half to G. Beatty, Dunkirk, Ind. Machine for automatically gathering and delivering glass in manufacturing glassware	618,975	Feb. 7	345	72, 73	86	877
Alter, Isaac V., Parr, Ind. Fence-post	624,724	May 9	1415	317	87	997
Alter, Simon D., and L. T. Young, Philadelphia, Pa. Flash-light apparatus	625,133	May 16	2162	490	87	1157
Altland, Samuel H. (See Mayer and Altland.)						
Altschwager, Henry H., and L. E. Joy, Minneapolis, Minn. Photographic-plate holder	618,763	Jan. 31	3604	805	86	764
Altshul, Henry, New York, N. Y. Display apparatus	635,030	Oct. 17	1923	457, 458	89	415
Aluminum Manufacturing Company. (See Koenig and Dedrick, assignors.)						
Aluminum Stopper Company of Baltimore City. (See Carper, Albert A., assignor.)						
Alves, John, Melbourne, Victoria. Fire-bridge for furnaces	625,916	May 30	3582	813	87	1475
Alvord, Thomas G. (See Reed, Joseph O., assignor.)						
Alward, Oliver W. (See Wilmot, James A., assignor.)						
Alwood, Josiah K., Morenci, Mich. Harness-snap	628,619	July 11	1244	290	88	261
Alz, Urban S., Baltimore, Md. Safety device for elevators	628,260	July 4	577	137	88	112
Amazeen Machine Company. (See Dunham, Benjamin F., assignor.)						
Amback, William F., and L. C. Hollingworth, Providence, R. I. Cloth-rest for cloth-shearing machines	634,602	Oct. 10	1175	279	89	251
Amback, William F., and L. C. Hollingworth, Providence, R. I. Rest for cloth-shearing machines	634,603	Oct. 10	1176	279	89	251
Ambler, Russell P., De Funiak Springs, Fla. Bicycle	634,789	Oct. 10	1494	351	89	313
Ambrose, Robert L. (See Conrad and Ambrose.)						
Ambrose, Robert L., North Tarrytown, assignor to Rand Drill Company, New York, N. Y. Oiling device for rock-drills	635,286	Oct. 24	2419	564	89	528
Ambrose, William R., Sheffield, Ala. Knockdown and collapsible crate	637,061	Nov. 14	1601	346	89	1269
Ambruster, Charles S., Elmer, N. J. Bicycle	630,436	Aug. 8	1370	306, 307	88	1004
Amenábar, Julio D., Wolverhampton, England. Cycle-lock	636,740	Nov. 14	985	210	89	1147
American Automatic Banjo Company. (See Reed, William S., assignor.)						
American Bank Note Company. (See Robertson and Mandel, assignors.)						
American Bell Telephone Company. (See Arnold, Chester H., assignor.)						
American Bell Telephone Company. (See Bailey, Robert M., assignor.)						
American Bell Telephone Company. (See Burgess and Wilder, assignors.)						
American Bell Telephone Company. (See Crane, Henry M., assignor.)						
American Bell Telephone Company. (See Crane and Wales, assignors.)						
American Bell Telephone Company. (See Dean, William W., assignor.)						
American Bell Telephone Company. (See Field, Stephen D., assignor.)						
American Bell Telephone Company. (See McCormick, William E., assignor.)						
American Bell Telephone Company. (See Smythe, Edwin H., assignor.)						
American Bell Telephone Company. (See Stone, John S., assignor.)						
American Bell Telephone Company. (See Thompson, George K., assignor.)						
American Bell Telephone Company. (See Thompson and Wales, assignors.)						
American Bell Telephone Company. (See Wales, Thomas C., Jr., assignor.)						
American Bell Telephone Company. (See Wales and Crane, assignors.)						
American Bell Telephone Company. (See Wales and Waterson, assignors.)						
American Bicycle Company. (See Copeland, James S., assignor.)						
American Bicycle Company. (See Cuntz, Hermann F., assignor.)						
American Blower Company. (See Cunliffe, Cicero M., assignor.)						
American Brake Beam Company. (See Pungs, William A., assignor.)						
American Car Sprinkler Company. (See Kenison, John B., assignor.)						
American Car Sprinkler Company. (See Twining, William S., assignor.) (Reissue.)						
American Chainless Wheel Company. (See Miller, David H., assignor.)						
American Chair Manufacturing Company. (See Healy, John, assignor.)						
American Computing Scale Company. (See Foster, Frederick D., assignor.)						
American Cotton Bale Company. (See Taft, Jerome C., assignor.)						

Alphabetical list of patentees—Continued.

Name, residence, and invention.	No.	Date.	Monthly volume. Spec.	Monthly volume. Dr'g.	Official Gazette. Vol.	Official Gazette. Page.
American Cotton Company. (See Anderson, William E., assignor.)						
American Cotton Company. (See Bessonette, Charles L., assignor.)						
American Cotton Company. (See Dyer, Frank L., assignor.)						
American Cotton Company. (See Ringi, Haakon S., assignor.)						
American Cotton Company. (See Swenson, Magnus, assignor.)						
American Electric Vehicle Company. (See Camp, Theodore L., assignor.)						
American Electric Vehicle Company. (See Knepper, Harry H., assignor.)						
American Electric Vehicle Company. (See Knudsen, Karsten, assignor.) (Reissue.)						
American Electrical Novelty and Manufacturing Company. (See Misell, David, assignor.)						
American Ether Company of Richmond, Virginia. (See Fritzsche, Paul T., assignor.)						
American Graphophone Company. (See Macdonald, Thomas H., assignor.)						
American Hard Rubber Company. (See Traxler, Charles, assignor.)						
American Harrow Company. (See Garst, Stephen H., assignor.)						
American Harrow Company. (See Garst, Stephen H. and D., assignors.)						
American Hull Cleaner Company. (See Zerbe, James S., assignor.)						
American Laundry Machinery Company. (See Carter, Warren N., assignor.)						
American Lithographic Company. (See Frauenfelder, Paul G., assignor.)						
American Lithographic Company. (See Rosell, Claude A. O., assignor.)						
American Locomotive Appliance Company. (See Milton, John, assignor.)						
American Machine Company. (See Kennedy, William R., assignor.)						
American Manufacturing Company *et al.* (See Plummer, Horace Q., assignor.)						
American Mason Safety Tread Company. (See Davis, Augustin I., assignor.)						
American Mercantile Company. (See Brown, Norman E., assignor.)						
American Metal Lath Fireproof Construction and Manufacturing Company. (See Duncan, William, assignor.)						
American Mutoscope and Biograph Company. (See Dickson, William K. L., assignor.)						
American Mutoscope Company. (See Casler, Herman, assignor.)						
American Mutoscope Company. (See Casler and Pross, assignors.)						
American Mutoscope Company. (See Mason, Joseph, assignor.)						
American Ordnance Company. (See Bevans, William H., assignor.)						
American Plaiting Machine Company. (See Hagerty, Thomas F., assignor.)						
American Pneumatic Railway Ditcher and Grader Company. (See Doddridge, William B., assignor.)						
American Postal Machines Company. (See Barber and Hackley, assignors.)						
American Pulley Company. (See Brinley, Charles A., assignor.)						
American Pulley Company. (See Budd, Edward G., assignor.)						
American Rail Joint and Manufacturing Company. (See Ludlow, William E., assignor.)						
American Rail Joint and Manufacturing Company. (See McCarty and Claflin, assignors.)						
American Railway Supply Company. (See Thomas, James B., assignor.)						
American Ring Company. (See Chesson, Frederick W., assignor.)						
American Roll Paper Company. (See Tivy and Hill, assignors.)						
American Saddle Company. (See Smith, Charles S., assignor.)						
American Shearer Manufacturing Company. (See Priest, Joseph K., assignor.)						
American Shoe Machinery Company. (See Angell, Edwin E., assignor.)						
American Signal and Power Company. (See Hunter, Robert L., assignor.)						
American Soda Fountain Company. (See Adami, Conrad, assignor.)						
American Soda Fountain Company. (See Lippincott and Morlok, assignors.)						
American Soda Fountain Company. (See Tufts and Hopkins, assignors.)						
American Specialty Manufacturing Company. (See Capewell, George J., assignor.)						
American Steel and Wire Company. (See Bates, Albert J., assignor.)						
American Steel and Wire Company. (See Jernberg, Laurence W., assignor.)						
American Steel and Wire Company. (See McMullen, David S., assignor.)						
American Steel and Wire Company. (See Robinson, Harry A., assignor.)						
American Steel and Wire Company. (See Sprague, Arthur W., assignor.)						
American Steel Foundry Company. (See Hickey, John, assignor.)						
American Steel Roofing Company. (See Reynolds, William M., assignor.)						
American Symmetroscope Company. (See Wale, George, assignor.)						
American Telephone and Telegraph Company. (See Barrett, John A., assignor.)						
American Thread Company. (See Palmer, Maro V., assignor.)						
American Tobacco Company. (See Butler, William H., assignor.)						
American Tobacco Company. (See Campbell, Daniel J., assignor.)						
American Tobacco Company. (See Williams, George M., assignor.)						
American Tobacco Company. (See Wilson, Francis A., assignor.)						
American Tripoli Company. (See Fausek, Alexander V., assignor.)						
American Turret Lathe Works Company. (See Conradson, Conrad M., assignor.)						
American Type Founders' Company. (See McFarland, Edwin C., assignor.)						
American Universal Mill Company. (See Grey, Henry, assignor.)						
American Waltham Watch Company. (See Stevens, Milton H., assignor.)						
American Writing Machine Company. (See Perry, Lewis H., assignor.)						
American Writing Machine Company. (See Steele, Herbert H., assignor.)						
American Writing Machine Company. (See Wallace, Casper D., assignor.)						
Ames, Arthur N. (See Stewart and Ames.)						
Ames, David J. (See Howe, Ames, and Labare.)						
Ames, George A., Norwich, Vt. Ice-cutter	633,410	Sept. 19	2300	540, 541	88	2185
Ames, Hannibal H., Hutchinson, Minn. Rotary engine	625,731	May 30	3211	730	87	1405
Ames Iron Works. (See Bradley, Walter A., assignor.)						
Ames, John H., assignor to G. C. Bohn, St. Paul, Minn. Refrigerator	625,309	May 23	2480	563	87	1244
Ames, Nathan. (See Bradford, William A., assignor.)						
Ames, Oakes, Milton, Mass., assignor to Lamson Consolidated Store Service Company, Newark, N. J. Pneumatic-despatch-tube apparatus	640,071	Dec. 26	3476	797	89	2606
Ames, William H., Watsonville, Cal. Hand-brace drill attachment	626,474	June 6	475	111	87	1706
Ames, William L., assignor to Reed & Prince Manufacturing Company, Worcester, Mass. Die for rolling screw-threads	618,262	Jan. 24	2689	596	86	573
Amess, Agness, and M. A. Powlison, Perth, N. D. Bicycle stand and lock	632,165	Aug. 29	4512	1016	88	1672
Ameye, Camille, Iseghem, Belgium. Apparatus for sterilizing and saturating liquids with carbonic acid	634,790	Oct. 10	1495	352	89	313
Amies, Joseph H., Philadelphia, Pa. Paving-block	617,705	Jan. 17	1606	------	86	351
Amies, Joseph H., assignor of one-third to C. F. Taylor, Philadelphia, Pa. Combined paper-pulp and cement pavement	622,877	Apr. 11	1259	------	87	258
Amies, Joseph H., assignor of one-third to C. F. Taylor, Philadelphia, Pa. Cement-concrete pavement	635,221	Oct. 17	2301	------	89	488
Amiotte, Adelard, assignor of seven-eighths to C. W. Ross and P. McKenzie, Montreal, Canada. Railway-car	639,647	Dec. 19	2689	617	89	2431
Amlie, Paul W., Cooperstown, N. D. Hopple	627,040	June 13	1534	335	87	1930

Alphabetical list of patentees—Continued.

Name, residence, and invention.	No.	Date.	Monthly volume. Spec.	Monthly volume. Dr'g.	Official Gazette. Vol.	Official Gazette. Page.
Ammerman, William M., assignor to E. J. Toof, New Haven, Conn. Take-up for sewing-machines	637,744	Nov. 21	3267	681	89	1650
Ammerman, William M., and E. J. Toof, New Haveu, Conn., assignors to said Toof. Sewing-machine	629,735	July 25	3307	772 773	88	699
Ammerman, William M., and E. J. Toof, New Haven, Conn., assignors to said Toof. Ruffler attachment for sewing-machines	629,736	July 25	3309	773	88	699
Amodeo-Salvator, Emmanuel, U. S. Navy. Steam-trap	633,189	Sept. 19	1846	434 435	88	2097
Amory, William N., New York, N. Y. Spring-post for seats or handle-bars of bicycles	627,676	June 27	2735	599	87	2203
Amos, William, Providence, R. I. Ventilating-deflector for windows	630,791	Aug. 8	1992	451	88	1125
Ampere Electro-Chemical Company. (See Jacobs, Charles B., assignor.)						
Amrath, Joseph W., San Francisco, Cal. Loose-leaf ledger or file	638,208	Dec. 5	1	1	89	1867
Ams, Max. (See Brenzinger, Julius, assignor.)						
Amsden, George A., Springfield, Mass., assignor to Lamson Consolidated Store Service Company, Newark, N. J. Conveying apparatus	640,072	Dec. 26	3478	797 798	89	2606
Amthor, George F. (See Bradley, William H., assignor.)						
Anable, Francis M., Westville, Cal. Adjustable guide for rock-drill piston-rods	620,267	Feb. 28	2689	616	86	1388
Anck, John M., Philadelphia, Pa. Electric-lighting gas-burner	621,778	Mar. 28	2307	519	86	1989
Ancker, Mitchel. (See Westou and Ancker.)						
Anders, Charles, Chaler, La. Revolving stalk-cutter	622,589	Apr. 4	734	169	87	139
Anders, George L., London, England. Telephonic apparatus	635,008	Oct. 17	1885	448 449	89	408
Andersen, August W., assignor to Copper and Steel Welding Company, Galesburg, Ill. Welding metals	628,427	July 4	890	------	88	171
Andersen, Johan M., *et al.* (See Woltmann, Ernst, assignor.)						
Andersen, Johan M., assignor of one-half to A. Anderson, Boston, Mass. Electric-conductor support	616,872	Jan. 3	2	1	86	3
Andersen, Johan M., assignor of one-half to A. Anderson, Boston, Mass. Electric-conductor support	632,211	Aug. 29	4605	1038	83	1689
Andersen, Johan M., assignor of one-half to A. Anderson, Boston, Mass. Electric switch	638,687	Dec. 12	961	213 214	89	2073
Anderson, Albert. (See Andersen, Johan M., assignor.)						
Anderson, Albert, *et al.* (See Woltmann, Ernst, assignor.)						
Anderson, Alex L., Beatrice, Nebr. Track-fastening	628,440	July 11	921	215	88	197
Anderson, Alexander, Greenville, Miss. Wrench	632,082	Aug. 29	4356	979	88	1640
Anderson, Anders, Cloquet, Minn. Lock	633,352	Sept. 19	2190	514	88	2164
Anderson, Andrew, Jr., *et al.* (See Dela Mar, Joseph, assignor.)						
Anderson, Andrew, Detroit, Mich. Match-machine	637,064	Nov. 14	1608	347 348	89	1271
Anderson, Andrew G., Edinburgh, Scotland. Ice floor for skating-rinks, &c	632,035	Aug. 29	4267	959	88	1623
Anderson, Andrew H., Ishpeming, Mich. Wrench	624,149	May 2	389	79	87	774
Anderson, Andrew W. (See Anderson, Otto and A. W.)						
Anderson, Anthony N., Jacksonville, Fla. Boat-propeller	635,951	Oct. 31	3709	857	89	790
Anderson, Anton, Menominie, Wis., assignor to E. Bement's Sons, Lansing, Mich. Cleaner for spading-harrows	617,070	Jan. 3	405	99	86	79
Anderson, Anton G., and F. Mohn, Chicago, Ill. Automatic valve for fire-extinguishing systems	625,376	May 23	2593	590 591	87	1266
Anderson, Anton L., and C. M. Roland, St. Hilaire, Minn. Rope-clamp	630,837	Aug. 15	2078	469	88	1166
Andersou, Ashley, Woodstock, Ill. Bog-cutter	620,559	Mar. 7	2	1	86	1503
Anderson, August R., Cameron, Idaho. Churn	638,744	Sept. 26	2911	675 676	88	2318
Anderson, August R., Cameron, assignor of one-half to N. H. Carter, Howard, Idaho. Bicycle propulsion	627,086	June 20	1618	354	87	1965
Anderson, Bernhard C. J., Morton Park, assignor of one-half to L. F. Nonnast, Chicago, Ill. Carbureter	637,062	Nov. 14	1603	346 347	89	1270
Anderson, Carl F., West New York, N. J. Adjustable saw-set	637,063	Nov. 14	1607	347	89	1271
Anderson, Carl H., Kenosha, Wis. Egg-tester	623,647	Apr. 25	2665	610	87	567
Anderson, Charles. (See Strauss, Charles H., assignor.)						
Anderson, Charles A., and E. A. Ericksson, Chicago, Ill. Gas or oil engine	630,838	Aug. 15	2079	470	88	1166
Auderson, Charles E., South Bend, Ind. Plow	629,643	July 25	3148	734	88	668
Anderson, Charles H. (See Isgrig and Phares, assignors.)						
Anderson, Charles H., *et al.* (See Densmore, Charles, assignor.)						
Anderson, Charles O., assignor of one-fourth to N. A. Macdonald, Butte, Mont. Bicycle propulsion	623,962	May 2	1	1	87	703
Anderson, Christian, Chippewa Falls, Wis. Cutter-head	632,618	Sept. 5	735	169	88	1852
Anderson, David W., assignor of one-half to J. T. Wright, Richmond, Va. Spring-actuated fish-hook	618,764	Jan. 31	3605	805	86	765
Anderson, Edora V., Van, Oreg. Pie-rack	618,317	Jan. 24	2782	617	86	591
Anderson, Edward L., St. Louis, Mo. Chemical generator of electricity	638,083	Nov. 28	3897	820	89	1796
Anderson, Emma. (See Olin, Gustaf O., assignor.)						
Anderson, Frank C., assignor of one-half to G. P. Giltz, Cincinnati, Ohio. Switch-operating mechanism	634,935	Oct. 17	1750	416	89	380
Anderson, George F., Marshalltown, Iowa. Separator	635,734	Oct. 31	3299	760	89	711
Anderson, George F., Marshalltown, Iowa. Heater	635,735	Oct. 31	3300	760	89	711
Anderson, George S., New York, N. Y., assignor to Elliott & Hatch Book Typewriter Company, of New York. Type-writer	631,144	Aug. 15	2637	597 598	88	1274
Anderson, Gustaf A., assignor to Geiser Manufacturing Company, Waynesborough, Pa. Spring-wheel	624,725	May 9	1416	317 3 8	87	997
Anderson, Gustaf A., assignor to Geiser Manufacturing Company, Waynesborough. Pa. Spring-wheel	624,726	May 9	1419	319	87	998
Anderson, Gustaf A., assignor to Geiser Manufacturing Company, Waynesborough, Pa. Spring-wheel	624,727	May 9	1420	319	87	999
Anderson, Gustaf A., assignor to Geiser Manufacturing Company, Waynesborough, Pa. Spring-wheel	624,728	May 9	1422	320	87	999
Anderson, Harry, Wyncote, assignor to W. A. MacCalla, Philadelphia, Pa. Coin-case	618,318	Jan. 24	2782	617	86	591
Anderson, Harry M., *et al.* (See Poppert, Peter H., assignor.)						
Anderson, Henry E., Cheboygau, Mich. Air-compressor	620,822	Mar. 7	526	112	86	1605
Anderson, James C., Highland Park, Ill Military bicycle	633,745	Sept. 26	2913	676	88	2319
Anderson, James C., Highland Park, Ill. Bicycle	633,746	Sept. 26	2915	676 677	88	2319
Anderson, James C., Highland Park, Ill. Bicycle	633,747	Sept. 26	2917	677 678	88	2319
Anderson, James C., Highland Park, Ill. Military bicycle	633,748	Sept. 26	2919	678 679	88	2320
Anderson, James C., Highland Park, Ill. Bicycle	633,749	Sept. 26	2922	679	88	2320
Anderson, James C., Highland Park, Ill. Apparatus for making tires upon wheels and repairing same	637,690	Nov. 21	3181	659	89	1633

Alphabetical list of patentees—Continued.

Name, residence, and invention.	No.	Date.	Monthly volume. Spec.	Monthly volume. Dr'g.	Official Gazette. Vol.	Official Gazette. Page.
Anderson, James C., Highland Park, Ill. Wheel for automobiles or other vehicles	637,691	Nov. 21	3182	659	89	1633
Anderson, James C., Highland Park, Ill. Making tires	637,692	Nov. 21	3184	------	89	1633
Anderson, James J., assignor to T. J. Smith, Chicago, Ill. Hydrocarbon-burner	630,580	Aug. 8	1641	367	88	1056
Anderson, John, Newcastle-upon-Tyne, England. Guard for circular saws	625,310	May 23	2481	563	87	1244
Anderson, John, Bradford, Pa. Folding baby-carriage	628,295	July 4	654	152	88	126
Anderson, John, assignor of one-half to P. H. Clarke, St. Louis, Mo. Car-truck	623,694	Apr. 25	2750	630	87	584
Anderson, John, assignor of one-half to P. H. Clarke, St. Louis, Mo. Electric motor	631,768	Aug. 29	3801	846	88	1531
Anderson, John, assignor of one-half to P. H. Clarke, St. Louis, Mo. Electric hammer	631,769	Aug. 29	3802	847	88	1532
Anderson, John A., Austin, Minn. Bag-holder	625,134	May 16	2164	490	87	1158
Anderson, John A. E., Indianapolis, Ind. Freezer	638,688	Dec. 12	963	214	89	2074
Anderson, John F., Paso Robles, Cal. Lock	630,839	Aug. 15	2082	470, 471	88	1166
Anderson, John M. (See Griffith and Anderson.)						
Anderson, Kate B., assignor of one-half to M. Ready, Chicago, Ill. Musical instrument	636,232	Nov. 7	1	1	89	925
Anderson, Lee, assignor of one-third to E. W. Rush, Paris, Tex. Cylindrical-bale cotton-press	639,491	Dec. 19	2410	555, 556	89	2374
Anderson, Milton J., assignor to Summers Fallow Machine Company, Dufur, Oreg. Agricultural implement	636,703	Nov. 7	854	190	89	1096
Anderson, N. E. (See Chial, John, assignor.)						
Anderson, Nils. (See Akerberg, Olof, assignor.)						
Anderson, Otto, Stillwater, and A. W. Anderson, Lake Elmo, Minn. Pneumatic rocker	637,065	Nov. 14	1611	348	89	1271
Anderson, Peter. (See Sayles, Thomas P., assignor.)						
Anderson, Peter, New York, N. Y. Chandelier for pianos	618,765	Jan. 31	3606	805	86	765
Anderson, Peter, Xenia, Ill. Thawing frozen ground	620,402	Feb. 28	2919	669	86	1432
Anderson, R. Napier, *et al.* (See Olney, George, assignor.)						
Anderson, Ralph G. (See Allyne and Anderson.)						
Anderson, Robert S., Toronto, Canada, assignor to New Departure Bell Company, Bristol, Conn. Back-pedaling brake	625,732	May 30	3212	730	87	1405
Anderson, Robert S., Toronto, Canada, assignor to New Departure Bell Company, Bristol, Conn. Back-pedaling brake	635,414	Oct. 24	2702	618	89	582
Anderson, Rollin W., Logansport, Ind. Tool-holder for grindstones	633,543	Sept. 19	2517	591	88	2226
Anderson, Thaddeus A., assignor to one-half to J. A. Hurdle, New York, N. Y. Lock	625,825	May 30	3408	774	87	1442
Anderson, Valerius D., Cleveland, Ohio. Float	640,073	Dec. 26	3480	798	89	2607
Anderson, Wendell A., La Crosse, Wis. Detachable holder for dust-pans	618,048	Jan. 24	2268	505	86	495
Anderson, William E., Washington, D. C., assignor, by mesne assignments, to American Cotton Company, New York, N. Y. Means for binding cylindrical cotton-bales and tie and covering therefor	621,955	Mar. 28	2641	594, 595	86	2052
Anderson, William N., San Rafael, Cal. Can-opening implement	619,111	Feb. 7	600	129	86	928
Andersson, Hjalmar E., Stockholm, Sweden. Circuit-breaker	622,657	Apr. 11	872	200	87	185
Andersson, Hjalmer E., Stockholm, Sweden. Electric clock	638,160	Nov. 28	4070	858, 859	89	1827
Andion, Inocencio, New York, N. Y. Graphophone	620,823	Mar. 7	528	112	86	1605
Andrae, Henry P., *et al.* (See Kleinsteuber, Monroe A., assignor.)						
Andre, Thomas J., Wauseon, Ohio. Wire-stretcher	620,529	Feb. 28	3127	715	86	1472
Andreas, Ernst, Dresden, Germany. Terminal for pole-pieces of accumulators	635,287	Oct. 24	2421	564	89	528
Andreas, Fredrick, St. Louis, Mo. Molding apparatus	636,481	Nov. 7	431	95	89	1008
Andress, Fred R., Sparta, N. J. Nut-lock	625,529	May 23	2354	650	87	1316
Andrew, Alexander, New York, N. Y. Bottle	626,127	May 30	4043	923	87	1559
Andrew, Fred, Watseka, Ill. Spring-supported post	635,709	Oct. 24	3225	742	89	684
Andrew, John H. (See Chamberlin, Egbert V., assignor.)						
Andrew, Oren, Townsend, N. Y. Fence-post	633,062	Sept. 12	1585	369	88	2034
Andrew, Oren, Townsend, N. Y. Wire-stretcher	640,074	Dec. 26	3481	798	89	2607
Andrews, Adolphus Y., Philadelphia, Pa. Skiving-machine	621,012	Mar. 14	901	196	86	1688
Andrews, Amos, Plainfield, N. J. Oil and condensed-steam separator	627,793	June 27	2941	644	87	2244
Andrews, Edwin W., assignor to E. W. Andrews Incubator Company, Elmira, N. Y. Incubator	638,309	Dec. 5	232	48	89	1911
Andrews, Emery, Kennebunk, Me. Staple-fastening	628,380	July 4	805	187	88	154
Andrews, Emery, Kennebunk, Me. Mill-box	634,320	Oct. 3	667	161	89	134
Andrews, Ezra R. (See Jones and Mayo, assignors.)						
Andrews, Ezra R. (See Mayo, William, assignor.)						
Andrews, Fred, assignor of one-half to Elevator Supply and Repair Company, Chicago, Ill. Electric switch or signal apparatus	634,226	Oct. 3	459	117, 118	89	95
Andrews, George, Buckfastleigh, and J. Haley, Cleckheaton, England. Carding-engine	635,634	Oct. 24	3100	711	89	660
Andrews, Harry and T., London, England. Projectile	627,929	June 27	3189	698	87	2296
Andrews, James C., Springfield, Mass. Corset	619,112	Feb. 7	601	129	86	928
Andrews, John R., Homestead, Pa. Clock-winding indicator	618,217	Jan. 24	2604	576	86	557
Andrews, Leonard, Hastings, England. Electrical cut-out apparatus	638,084	Nov. 28	3898	820, 821	89	1796
Andrews, Leonard, Hastings, England. System of electrical distribution	638,085	Nov. 28	3902	821, 822	89	1797
Andrews, Otis, El Paso, Tex. Twine-holder	639,841	Dec. 26	3068	704, 705	89	2522
Andrews, Roderick B., Baltimore, Md. Door or closure for dry-kilns	626,475	June 6	477	111	87	1706
Andrews, Samuel W., New York, N. Y. Golfometer	619,529	Feb. 14	1340	308	86	1091
Andrews, Thomas. (See Andrews, Harry and T.)						
Andrews, William, Lowell, Mass. Artificial leg	616,873	Jan. 3	4	2	86	3
Andrews, William M., Glasgow, Scotland, assignor to D. B. Macmehan and S. W. Hurdle, Chicago, Ill. Shirt	620,403	Feb. 28	2920	669	86	1432
Andrews, William S., assignor of one-half to J. Boock, Woodside, New South Wales. Combined spring-balance and ready-reckoner	619,460	Feb. 14	1224	279	86	1068
Andrews, William W., Los Angeles, Cal. Rotary engine	629,119	July 18	2191	508	88	465
Andricht, George. (See Mattews and Andricht.)						
Andridge, Charles W. (See Cowles and Andridge.)						
Andrus, Burton L., Washington, D. C. Gromet	624,150	May 2	390	79	87	774
Andrus, Hialmer B. J. Winooski, Wis. Fastener for boxes, &c	624,286	May 2	630	138	87	819
Angel, Andrea, Liverpool, England. Magazine-camera	617,215	Jan. 3	670	155	86	131
Angel, Andrea, Liverpool, England. Magazine-camera. (Reissue)	11,757	July 4	917	214	88	177
Angel, Myron, San Luis Obispo, Cal. Sash-fastener	619,461	Feb. 14	1226	279	86	1068
Angell, Albert, Orange, N. J., assignor to W. J. Whiting and R. G. Ewer, New York, N. Y. Machine for breaking and shaking hemp	622,433	Apr. 4	422	97,98	87	78
Angell, Edwin E., Somerville, Mass., assignor to American Shoe Machinery Company, Portland, Me. Rotary shaft and journal-box	632,083	Aug. 29	4357	979	88	1640
Angell, Edwin E., Somerville, Mass., assignor to American Shoe Machinery Company, Portland, Me. Rand-trimming and stitch-rubbing machine	632,084	Aug. 29	4358	979	88	1641
Angell, Joseph T. N., New York, N. Y. Metallic packing	628,515	July 11	1068	249	88	522

Alphabetical list of patentees—Continued.

Name, residence, and invention.	No.	Date.	Monthly volume. Spec.	Monthly volume. Dr'g.	Official Gazette. Vol.	Official Gazette. Page.
Angevine, Zenus C., Los Angeles, Cal. Life-preserver	635,069	Oct. 17	2000	473	89	431
Angle, Edward H., St. Louis, Mo. Tooth-regulating device	626,476	June 6	479	111	87	1706
Anglo-American Provision Company. (See Cowin, Frederick, assignor.)						
Angly, Edouard. (See Perrottet and Angly.)						
Anguera, Edward de. (See Anguera, Herman K. C. de, assignor.)						
Anguera, Edward de. (See Sheldon, Herbert F., assignor.)						
Anguera, Edward de, Wakefield, Mass. Antirefilling bottle	629,537	July 25	2960	690	88	632
Anguera, Herman K. C. de, assignor to E. de Anguera, Wakefield, Mass. Ventilator	624,888	May 9	1727	390	87	1059
Angular Hole Machine Company. (See Fletcher, Walter, assignor.)						
Angular Hole Machine Company. (See Hoare, Robert, assignor.)						
Angus, Archibald, New York, N. Y. Coffee-pot	639,131	Dec. 12	1726	398	89	2222
Angus, Charles J., deceased, Little Falls, N. Y.; J. Angus, executrix. Mattress for invalids	619,708	Feb. 21	1679	385	86	1181
Angus, Julia, executrix. (See Angus, Charles J.)						
Anhaltzer, Henry, New York, N. Y. Package for incandescent mantles	631,689	Aug. 22	3630	818	88	1491
Aniello, John A., assignor to J. O. Theard, New Orleans, La. Advertising medium	625,530	May 23	2855	650	87	1316
Anilinöl-Fabrik A. Wülfiug. (See Busch, Albert, assignor.)						
Anisfield, John. (See Raab and Appel, assignors.)						
Anker, Joseph A., Los Angeles, Cal. Metallurgical furnace	631,414	Aug. 22	3131	710	88	1390
Annable, Warren W., Grand Rapids, Mich. Bicycle crank-shaft	622,644	Apr. 4	836	193	87	159
Annand, Robert C., South Shields, England. Tool for setting fasteners	630,476	Aug. 8	1450	324	88	1019
Annand, Robert C., South Shields, England. Perforator for web-printing machines	634,255	Oct. 3	539	135	89	108
Annandale, James H., Polton, Scotland. Apparatus for disintegrating and washing rags	625,311	May 23	2482	563	87	1244
Annandale, James H., Polton, Scotland. Sand-table for paper-making machines	635,736	Oct. 31	3301	761	89	712
Ansell, William H., Manchester, N. H. Collection time-card for letter-boxes	622,434	Apr. 4	424	98	87	79
Ansley, Charles L., and J. T. Topham, assignors of one-fourth to C. G. Arthur, Atlanta, Ga. Air-brake	621,779	Mar. 28	2309	519	86	1989
Anson, Sidney, Toledo, Ohio. Mechanical toy	638,793	Dec. 12	1140	254	89	2109
Anson, Warren J., Toledo, Ohio. Carbureter	639,336	Dec. 19	2118	487	89	2316
Ansonia Brass and Copper Company. (See Cowles, Charles A., assignor.)						
Ansonia Brass and Copper Company. (See Cowles, William A., assignor.)						
Antelope Lining Company. (See Hale, Bernard O., assignor.)						
Antes, William H., Rockford, Ill. Burial-casket and handle	618,159	Jan. 24	2512	558	86	541
Antes, William L., Baltimore, Md. Spring bed-bottom	622,030	Mar. 28	2783	627	86	2081
Anthoine, Alfred W., Lewiston, assignor of one-half to G. M. Cram, Deering, Me. Hub-attaching device	622,878	Apr. 11	1261	291	87	258
Anthony, Alfred. (See Mumford and Anthony.)						
Anthony, Alfred R., Wilkes-Barré, Pa. Conveyer drive-chain	617,137	Jan. 3	536	127	86	105
Anthony, Alfred R., Wilkes-Barré, Pa. Conveyer drive-chain	617,138	Jan. 3	538	128	86	106
Anthony, Alfred R., Wilkes-Barré, Pa. Cotter-pin	639,337	Dec. 19	2120	488	89	2316
Anthony, Alfred R., and C. T. Cunnius, Wilkes-Barré, Pa. Back-pedaling brake	636,611	Nov. 7	679	148	89	1059
Anthony, Alonzo D., Groton, N. Y. Spring-hinge	622,435	Apr. 4	425	99	87	79
Anthony, Charles E., Denver, Colo., assignor, by mesne assignments, to Western Elaterite Manufacturing Company, of Colorado. Composition for roofing, paving, &c	617,706	Jan. 17	1607	------	86	351
Anthony, Charles E., Denver, Colo., assignor, by mesne assignments, to F. Renner, Jr., Hastings, Nebr. Wurtzilite product and apparatus	620,082	Feb. 21	2353	533	86	1310
Anthony, Daniel P., Tecumseh, Mich. Wire fence	620,090	Feb. 28	2375	538	86	1329
Anthony, Mark, assignor to Gorham Manufacturing Company, Providence, R. I. Lamp-burner	631,977	Aug. 29	4158	935	88	1601
Anthony Wayne Manufacturing Company. (See Herron, Al H., assignor.)						
Anthony Wayne Manufacturing Company. (See Wichman, Herman W., assignor.)						
Anthony Wayne Manufacturing Company. (See Wichman and Herron, assignors.)						
Antiseptic Appliance Company. (See Van Alstine, George W., assignor.)						
Antoni, Ernst J., Kansas City, Mo. Spring bed-bottom	616,874	Jan. 3	5	2	86	4
Anzelewitz, Abraham, New York, N. Y. Stem winding and setting watch	626,128	May 30	4044	923	87	1559
Apotheker Ludwig Sell & Co. (See Sell, Ludwig, assignor.)						
Appel, Daniel. (See Raab and Appel.)						
Appel, Daniel, Cleveland, Ohio. Paper-bag machine	619,262	Feb. 14	881	194, 195, 196, 197, 198, 199	86	1001
Appel, Johannes, New York, N. Y. Journal-bearing	617,550	Jan. 10	1312	296	86	275
Apple, J. L., *et al.* (See Mills, William H., assignor.)						
Applebay, Wyly R., assignor of one-half to H. H. Adams, Lowell, Ohio. Ripping-tool	630,792	Aug. 8	1993	451	88	1125
Applegate, Charles R. (See Dowling, Frank, assignor.)						
Appleyard, William P., New Haven, Conn. Machine for covering wood with metal	625,531	May 23	2855	650, 651	87	1317
Applin, Eby R., Minneapolis, Minn. Seal for safes	620,091	Feb. 28	2375	538	86	1329
Apsey, Jobe E., *et al.* (See Russell, Charles J., assignor.)						
Apthorp, Octavie L., Boston, Mass. Tag	616,875	Jan. 3	7	2	86	4
Apthorp, Octavie L., Boston, Mass. Sounding-board for music-halls	631,843	Aug. 29	3925	877	88	1556
Arbenz, Frederick C., Chillicothe, Ohio. Furniture-fastening	625,634	May 23	3041	693	87	1354
Arbuthnot, J. B., *et al.* (See Bray, Frank F., assignor.)						
Arcade Manufacturing Company. (See Bitner, Harry, assignor.)						
Arcade Manufacturing Company. (See Devore, Levi M., assignor.)						
Arcade Manufacturing Company. (See Morgan, Charles, assignor.)						
Archambault, Odilon, St. Hyacinthe, Canada. Acetylene-gas generator	626,477	June 6	480	112	87	1706
Archart, Marcus C., *et al.* (See Bragg, Solomon A., assignor.)						
Archer, John B., Oakland, Cal. Furnace for burning pulverized fuel or the like	638,161	Nov. 28	4078	860	89	1829
Archer, John B., Oakland, Cal. Furnace	638,689	Dec. 12	965	214, 215	89	2074
Archer, George W., assignor to Archer Manufacturing Company, Rochester, N. Y. Barber's chair	630,159	Aug. 1	808	174	88	882
Archer Manufacturing Company. (See Archer, George W., assignor.)						
Archer, Wesley L., Cavendish, Vt. Rectangular wooden box	617,999	Jan. 17	2161	482	86	460
Archer, William H. (See Tulloh and Archer.)						
Archer, William S., New York, N. Y. Apparatus for cleaning, combing, and assorting fibrous materials	622,031	Mar. 28	2784	628	86	2081
Archer, William T. (See Nilson, Axel L., assignor.)						
Arcioni, Vittorio, assignor to C. Olivetti, Ivrea, Italy. Electrical measuring instrument	636,097	Oct. 31	4028	922	89	854
Arens, August, New Britain, assignor to P. & F. Corbin, Hartford, Conn. Bell-striker	621,013	Mar. 14	904	196	86	1689
Arft, Charles H., and J. Tessin, Richland, Mich. Plow	619,925	Feb. 21	2078	471	86	1258

Alphabetical list of patentees—Continued.

Name, residence, and invention.	No.	Date.	Monthly volume.		Official Gazette.	
			Spec.	Dr'g.	Vol.	Page.
Argall, Philip, Denver, Colo. Cyanid filter-tank	617,497	Jan. 10	1205	274 275	86	254
Argall, Philip, Denver, Colo. Rotary ore-cooler	623,230	Apr. 18	1911	438 439	87	401
Argall, Philip, Denver, Colo. Multitubular ore-cooler	623,231	Apr. 18	1914	439 440	87	402
Argo, John T., assignor of one-half to J. Wiglesworth, Poindexter, Ky. Gate	622,099	Mar. 28	2894	653 654	86	2103
Argubright, Joseph W. (See Allen, Alonzo W., assignor.)						
Argyle, James and W., Alfreton, England. Combined tobacco-pipe and whistle	633,411	Sept. 19	2302	541	88	2186
Argyle, William. (See Argyle, James and W.)						
Arienta, Secondo, Paterson, N. J. Shedding mechanism for looms	628,154	July 4	371	88	88	75
Arkell, Bartlett, *et al.* (See Lorenz, William A., assignor.)						
Arkell, James, assignor to S. H. Arkell, Canajoharie, N. Y. Manufacturing corrugated paper	623,695	Apr. 25	2752	630	87	585
Arkell, James, assignor to S. H. Arkell, Canajoharie, N. Y. Means for manufacturing corrugated paper	623,696	Apr. 25	2752	631	87	585
Arkell, Sarah H. (See Arkell, James, assignor.)						
Arledter, Fritz, Perlen, Switzerland. Manufacture of resinous soap	627,287	June 20	1971	------	87	2036
Arlington Manufacturing Company. (See France, Joseph R., assignor.)						
Arm, Ernst, Wilmersdorf, Germany. Hectographic copying apparatus	632,619	Sept. 5	736	169	88	1852
Armbruster, Peter, assignor of one-half to H. Wiethop and J. Venarde, Mehlville, Mo. Hand-brake for wagons	630,021	Aug. 1	553	122	88	833
Armington, Charles F., Boston, Mass. Incandescing mantle for gas-burners	626,958	June 13	1391	307	87	1902
Armington, William A., New York, N. Y. Gas-burner	627,087	June 20	1621	354	87	1965
Armitstead, John E., Provo City, Utah. Spray-nozzle	621,514	Mar. 21	1808	402	86	1875
Armour & Co. (See Graham and Pierce, assignors.)						
Armour & Co. (See Morris, Fulton R., assignor.)						
Armour & Co. (See Pierce, Edgar R. M., assignor.)						
Arms, Elizabeth S. (See Markie, Emma, assignor.)						
Armstrong, A. H. (See Gregory, William B., assignor.)						
Armstrong, Arnold H. (See Bayldon and Armstrong.)						
Armstrong, Charles G., assignor to E. W. De Moe, Chicago, Ill. Electric signaling device for elevators	634,227	Oct. 3	467	119	89	96
Armstrong Cork Company. (See Thompson, Thomas, assignor.)						
Armstrong, Edwin A., Chicago, Ill. Memorandum-calendar	617,387	Jan. 10	1017	232	86	217
Armstrong, Ernest, Camden, N. J., assignor to Instant Lighter and Novelty Company, of New Jersey. Signal-lantern	625,286	May 16	2428	549	87	1207
Armstrong, Ernest, Camden, N. J., and J. J. Mulconroy, Philadelphia, Pa., assignors to Roberts Manufacturing Company, of New Jersey. Water-filter	634,714	Oct. 10	1374	323	89	291
Armstrong, Ezra A., Samaria, Mich., assignor of one-half to A. W. Lefler, Toledo, Ohio. Paper-box-blank machine	623,862	Apr. 25	3078	709	87	647
Armstrong, Frederick L. (See Bailey and Armstrong.)						
Armstrong, Harry Y. (See Hunter and Armstrong.)						
Armstrong, Henry, Rochester, N. Y. Saw-vise	635,907	Oct. 31	3635	838 839	89	777
Armstrong, Herbert C. (See Grant, Frank S., assignor.)						
Armstrong, James, Chicago, Ill. Tool-holder	636,741	Nov. 14	987	210	89	1148
Armstrong, James W., Chicago, Ill. Bicycle-wheel	624,419	May 2	863	194	87	867
Armstrong, Jasper N., Soldiers' Home, Cal. Bandage	636,742	Nov. 14	988	211	89	1148
Armstrong, John E. and W., Santa Cruz, Cal. Wave-power pumping apparatus	626,452	June 6	437	103	87	1698
Armstrong Manufacturing Company. (See Vandegrift, Nathaniel W., assignor.)						
Armstrong, Martin, Velasco, Tex. Two-piece box	637,757	Nov. 28	3299	689	89	1675
Armstrong, Nathaniel W., *et al.* (See Thompson, Mary E., assignor.)						
Armstrong, Ogden. (See Freeman and Armstrong.)						
Armstrong, Thomas J., near Hammond, Kans. Portable fence-machine	618,819	Feb. 7	2	1	86	803
Armstrong, Walter S., Ruthven, assignor of one-half to F. H. Bagg, Valley Junction, Iowa. Detachable awning for windows or doors	633,110	Sept. 19	1716	403	88	2071
Armstrong, William. (See Armstrong, John E. and W.)						
Armstrong, William H., *et al.* (See Houston, John B., assignor.)						
Armstrong, William T., Granbury, Tex. Plow stock or standard	627,888	June 27	3114	682	87	2277
Arnegaard, Martin O., Hillsborough, N. D. Variable governor cut-off for engines. (Reissue)	11,711	Jan. 24	2933	648	86	622
Arnegaard, Martin O., Hillsborough, N. D. Governor cut-off	632,085	Aug. 29	4360	980	88	1641
Arner, Calvin E. (See Sebring and Arner.)						
Arner, Joseph. (See Sebring and Arner.)						
Arner, Joseph, Weissport, Pa. Keyless door-lock	617,980	Jan. 17	2128	476 477	86	454
Arney, Frederick W., Terre Haute, Ind. Acetylene-gas generator	633,258	Sept. 19	2006	471	88	2129
Arnn, McKenzie, Bristol, Va. Wood-preserving compound	633,778	Sept. 26	2971	------	88	2331
Arno, Ricardo. (See Ferraris and Arno.)						
Arno, Riccardo, Turin, Italy. Electric motor	631,919	Aug. 29	4054	910	88	1581
Arnois, Alexander, *et al.* (See O'Neill, Henry G., assignor.)						
Arnold, Albert J., assignor of five-eighths to W. Frazier, National City, Cal., and Tripp Bros., North Vernon, Ind. Reel for angling, &c	638,194	Nov. 28	4135	874	89	1843
Arnold Brothers & Co. (See Arnold, Nathaniel W., assignor)						
Arnold, Chester H., assignor to American Bell Telephone Company, Boston, Mass. Telephone-exchange switch apparatus and circuits	627,814	June 27	2980	352	87	2252
Arnold, Clarence R., Wellsville, Ohio. Mirror-stand	639,917	Dec. 26	3193	733	89	2548
Arnold, David H., *et al.* (See Mason, James F., assignor.)						
Arnold, Eliphalet L., Conroe, Tex. Rail-joint fastening	626,358	June 6	277	63	87	1667
Arnold, Eliphalet L., Conroe, Tex. Cattle-guard	628,428	July 4	891	209	88	171
Arnold, Fred W., Cambridge, Ohio. Curbing	640,075	Dec. 26	3482	798	89	2607
Arnold, Herman G., Hartford, Conn. Clasp	627,742	June 27	2854	624	87	2227
Arnold, Horace L., New York, N. Y. Tap and reamer and making same	632,862	Sept. 12	1238	284	88	1968
Arnold, Horace L., New York, N. Y. Milling-cutter tooth	637,495	Nov. 21	2445	531	89	1448
Arnold, Horatio C., Las Animas, Colo. Wire-stretcher	623,122	Apr. 18	1719	398	87	363
Arnold, Irwin R. B., assignor to Stereoptican and Film Exchange, Chicago, Ill. Hydrogen-gas generator	626,200	May 30	4192	952 953	87	1588
Arnold, Levi, Blackwell, Okla. Ter. Kitchen-cabinet	638,373	Dec. 5	360	75	89	1935
Arnold, Louis C., Chicago, Ill. Machine for applying paper or similar insulating material to wire	621,735	Mar. 21	2211	498 499 500	86	1955
Arnold, Nathaniel W., assignor to Arnold Brothers & Co., Abington, Mass. Hinged last	629,184	July 18	2303	534	88	485

Alphabetical list of patentees—Continued.

Name, residence, and invention.	No.	Date.	Monthly volume. Spec.	Monthly volume. Dr'g.	Official Gazette. Vol.	Official Gazette. Page.
Arnold, Stephen D., New Britain, Conn. Hinge	635,368	Oct. 24	2570	597	89	556
Arnold, Thomas, Jr. (See Paul, Isaac H., Jr., assignor.)						
Arnold, William B., Abington, Mass. Hinge	619,113	Feb. 7	602	129	86	928
Arnold, William B., Abington, Mass. Last	628,238	July 4	517	125	88	103
Arnold, William B., Abington, Mass. Hinge	629,185	July 18	2304	535	88	485
Arnold, William B., Abington, Mass. Last	640,076	Dec. 26	3483	799	89	2607
Arnold, William B., North Abington, Mass. Shoe-sole	635,118	Oct. 17	2120	496	89	454
Arnold, William E., *et al.* (See Bell, Carroll M., assignor.)						
Arnold, William S., San Francisco, assignor of one-half to H. Mellmann, Oakland, Cal. Flexible support or bracket	625,917	May 30	3583	813	87	1475
Arnot, James, Kearny, N. J. Pilot-wire rod for electrical conduits	617,216	Jan. 3	672	156	86	131
Arnot, M. C. (See Hathaway, George M., assignor.)						
Arnot, William D., assignor of one-half to G. B. Lawrence, Fitchburg, Mass. Combination-tool	636,098	Oct. 31	4030	922	89	854
Arnott, Alfred A., Topeka, Kans. Hydrocarbon-burner	618,371	Jan. 24	2873	638	86	608
Arnott, William D. (See Sawyer and Arnott.)						
Aron, Hermann, Berlin, Germany. Apparatus for measuring and recording electric currents	623,063	Apr. 11	1570	363	87	320
Aron, Hermann, Berlin, Germany. Apparatus for measuring electric currents	630,840	Aug. 15	2084	471	88	1166
Aronstein, Richard, Goldfield, Colo. Air-cushion	638,374	Dec. 5	362	75	89	1935
Arras, John, Jr., St. Louis, Mo. Chaff-separator for threshing-machines	629,186	July 18	2305	535	88	485
Arrott, James W., Jr., Allegheny, Pa. Dredger for pulverulent material	633,941	Sept. 26	3230	753	88	2382
Arrouquier, Fredrick E., assignor of one-half to C. H. Palmer, Worcester, Mass. Loom	618,820	Feb. 7	3	1	86	803
Arthur, Asa A., Marshfield, Mass. Holdback for vehicles	637,066	Nov. 14	1612	348	89	1272
Arthur, Charles B. (See Nolen, James G., assignor.)						
Arthur, Charles G. (See Ansley and Topham, assignors.)						
Arthur & Company. (See Wood, Alexander, assignor.)						
Arthur, James B. (See Schinneller, Jacob, assignor.)						
Arthur, William F., Lawrence, assignor to Crompton & Knowles Loom Works, Worcester, Mass. Warp stop-motion	627,963	July 4	3	1	88	3
Arvine, Freeling W., New York, N. Y. Separating emulsions	629,059	July 18	2068	482	88	441
Asbury, Edmund M., *et al.* (See Huffstickler, Noah G., assignor.)						
Asbury, Harry E., and W. Peoples, assignors to Enterprise Manufacturing Company of Pennsylvania, Philadelphia, Pa. Pump for pumping molasses, &c	619,653	Feb. 14	1563	356	86	1133
Asbury, Jeremiah, Lexington, Okla. Ter. Ratchet-wrench	639,700	Dec. 26	2800	646	89	2469
Asche, Charles H., New York, N. Y. Apparatus for protecting workmen on scaffolds	634,604	Oct. 10	1177	279, 280	89	251
Asche, Otto, assignor to Société de Soudage, Paris, France. Machine for soldering tin cans	620,083	Feb. 21	2356	533, 534	86	1310
Ascher, Samuel, Berlin, Germany. Curtain-pole bracket	620,268	Feb. 28	2690	617	86	1388
Aschner, Felix H. (See Nicholai and Aschner.)						
Ash, Richard E., and T. J. McCollouch, Nevada, Mo. Dropper attachment for corn-planters	633,942	Sept. 26	3231	753	88	2383
Ashby, Charles M. L., *et al.* (See Taber, William C., assignor.)						
Ashcraft, Jacob, Frazeysburg, Ohio. Harrow	637,999	Nov. 28	3756	788, 789	89	1768
Ashcroft, Norman, Chicago, Ill. Combined door-stop and lock-bar socket	638,690	Dec. 12	967	215	89	2074
Asher, William J., Willimantic, Conn Collar-shaping machine	627,889	June 27	3115	682	87	2277
Ashley, Frank M., New York, N. Y. Valve	632,934	Sept. 12	1378	319	88	1993
Ashley, Frank M., Hawthorne, N. J., assignor of one-third to C. F. Lehmann, New York, N. Y. Apparatus and system for burning liquid fuel	624,889	May 9	1728	391	87	1059
Ashley, Herbert, London, England. Pump	619,654	Feb. 14	1565	356	86	1133
Ashley, Phillip G., Rock Hall, Md. Oyster-tongs	622,100	Mar. 28	2896	654	86	2103
Ashley, Ralph, Port Republic, assignor to Guarantor Electric Company, Camden, N. J. Storage battery. (Reissue)	11,713	Jan. 31	3702	829	86	784
Ashley, Ralph, Port Republic, N. J., assignor, by mesne assignments, to Electric Power Development Company. Secondary battery	629,325	July 25	2553	594	88	551
Ashley, Rivingston. (See Skinner, John, assignor.)						
Ashley, Thomas, Jr., Louth, England. Feed-regulator	625,635	May 23	3043	693	87	1354
Ashmore, David N. (See Hinkle and Ashmore.)						
Ashton, Thomas R. R., Middle Brighton, Victoria. Buffer for high-explosive shells	634,101	Oct. 3	209	52	89	44
Ashworth, Albert W. (See Ashworth, Robert and A. W.)						
Ashworth, Arthur, Bury, England. Cloth-stretching machine	639,492	Dec. 19	2411	556	89	2374
Ashworth, Elijah, *et al.* (See Buckley, James, assignor.)						
Ashworth, Elijah, Manchester, England. Guide for card-setting machines	621,988	Mar. 28	2714	613	86	2067
Ashworth, Elijah, Manchester, England. Foundation for card-clothing	629,326	July 25	2557		88	551
Ashworth, Robert and A. W., New Haven, Conn. Wrench	627,466	June 27	2341	515	87	2126
Ashworth, Robert and A. W., assignors to L. T. Snow, New Haven, Conn. Wrench	628,218	July 4	478	115	88	95
Ashworth, Thomas, Urmston, England. Apparatus for spinning and doubling cotton, &c	620,824	Mar. 7	529	113	86	1606
Ashworth, Thomas, Urmston, England. Apparatus for spinning and doubling cotton, &c	620,825	Mar. 7	531	113, 114	86	1606
Ashworth, William J., Dursley, and T. Stevinson, Gloucester, England. Centrifugal bowl	618,196	Jan. 24	2573	569	86	552
Askew, Arthur W., Altoona, Pa. Changeable address-tag	634,159	Oct. 3	331	83	89	65
Askins, Joseph, Ridgefield, N. J., assignor to New York Nozzle Company, Orange, N. J., and New York, N. Y. Machine for washing hose	625,011	May 16	1938	435	87	1117
Askins, Joseph, Rutherford, N. J., assignor to F. H. Platt and T. F. Read, New York, N. Y. Machine for reducing wood to fiber	635,908	Oct. 31	3637	839	89	777
Aslanian, Thomas. (See Hovsepian, Joseph, assignor.)						
Asphalt Paper Pipe Company. (See Dixon, Albert S., assignor.)						
Aspinall, Frank B., Lee, and E. C. Ekstromer, Snaresbrook, England. Means for extracting precious metals from their ores	622,408	Apr. 4	374	85, 86	87	70
Aspinall, Thomas M., Piqua, Ohio. Weather-strip	630,642	Aug. 8	1750	393	88	1077
Aspinwall, Lewis A., assignor to Aspinwall Manufacturing Company, Jackson, Mich. Churn	636,612	Nov. 7	680	148	89	1059
Aspinwall, Louis M., Pittsburg, Pa., assignor to Electro-Magnetic Traction Company, of West Virginia. Electric railway	620,404	Feb. 28	2921	669	86	1432
Aspinwall Manufacturing Company. (See Aspinwall, Lewis A., assignor.)						
Astill, George. (See Green and Astill.)						
Aston, S., Jr., *et al.* (See Fullen, Jefferson D., assignor.)						
Atherton, Abel T., Warwick, R. I. Grid-bar for cotton-openers	630,022	Aug. 1	554	122	88	333
Atherton, Fisher C., Buffalo, N. Y. Crank-shaft for velocipedes	634,256	Oct. 3	540	135	89	108
Atherton, Frederick L., Paterson, N. J. Warping-machine	626,478	June 6	482	113	87	1707
Atherton, Grant S., New York, N. Y. Passenger or transportation ticket	637,067	Nov. 14	1614	349	89	1272
Atherton, Robert, Paterson, N. J. Quilling-machine	631,552	Aug. 22	3399	769	88	1444

Alphabetical list of patentees—Continued.

Name, residence, and invention.	No.	Date.	Monthly volume. Spec.	Monthly volume. Dr'g.	Official Gazette. Vol.	Official Gazette. Page.
Atherton, Robert, Paterson, N. J. Quilling-machine	632,003	Aug. 29	4210	947	88	1612
Atherton, Robert, Paterson, N. J. Singeing-machine	639,493	Dec. 19	2413	557	89	2374
Atkins, Edward B., Paris, Tenn. Percolator	633,412	Sept. 19	2303	541	88	2186
Atkins, George G., London, England. Clip for holding mats	637,222	Nov. 21	1935	414	89	1347
Atkins, Joseph, Chatham, Mass. Dumping-scow	627,951	June 27	3226	707	87	2304
Atkinson, Claude W., Penarth, England. Wheel-rim for cycles or other vehicles	619,246	Feb. 7	844	185	86	978
Atkinson, Claude W., Penarth, England. Cycle, &c	619,655	Feb. 14	1566	357	86	1133
Atkinson, John D., Seattle, Wash. Dish-washing machine	635,009	Oct. 17	1888	449	89	408
Atkinson, William H., *et al.* (See Somers, Daniel M., assignor.)						
Atkinson, William H., assignor to himself, D. M., J. L., G. A., and E. E. Somers, New York, N. Y. Powder-box	621,780	Mar. 28	2311	520	86	1990
Atlantic, Gulf and Pacific Company. (See Perry, Raymond A., assignor.)						
Atlantic Manufacturing Company of Baltimore City, of Maryland. (See Compton and Houck, assignors.)						
Atlantic Stevedoring Company. (See Tiffany, Charles M., assignor.)						
Atlas Tack Company. (See Gifford, James N., assignor.)						
Atlee, Joshua W., Riverton, N. J. Supporting-cleat	626,359	June 6	278	63	87	1667
Atterbury, John H., Needham, Mass. Crank mechanism for bicycles, &c	623,863	Apr. 25	3079	709	87	648
Atwater, George E., and T. C. Eldredge, Yankton, S. D. Horse vapor-bath	624,420	May 2	865	194 195	87	867
Atwater, John L., Western Springs, assignor to Vive Camera Company, Chicago, Ill. Multiplying attachment for cameras	633,980	Oct. 3	1	1	89	3
Atwater, Reeve S., Western Springs, assignor to Vive Camera Company, Chicago, Ill. Photograph-shutter	624,729	May 9	1423	320	87	999
Atwell, Fred A., Galeton, Pa. Adjustable garment-drafting chart	628,296	July 4	655	152 153	88	127
Atwood, Benjamin S., Whitman, Mass. Saw	619,530	Feb. 14	1342	308	86	1092
Atwood, Eugene, assignor, by mesne assignments, to Atwood-Morrison Company, Stonington, Conn. Swift or reel	621,736	Mar. 21	2220	500	86	1958
Atwood, George F., Orange, N. J., assignor to Atwood Power and Speed Gage Company, of New Jersey. Mean-effective-pressure indicator	624,151	May 2	391	80	87	775
Atwood, George F., Orange, N. J., assignor to Schaeffer & Budenberg, New York, N. Y. Telethermometer	636,884	Nov. 14	1249	269	89	1200
Atwood, George F., Chazy, assignor of one-half to W. W. Wood, Wood's Falls, N. Y. Portable boat-motor	638,542	Dec. 5	671	140 141	89	1994
Atwood, George H. (See Jones, Samuel O., assignor.)						
Atwood, James F., Malden, Mass. Clasp	617,944	Jan. 17	2070	464	86	444
Atwood, James F., Malden, Mass. Clasp	617,945	Jan. 17	2072	464	86	444
Atwood-Morrison Company. (See Atwood, Eugene, assignor.)						
Atwood Power and Speed Gage Company. (See Atwood, George F., assignor.)						
Aubé, Adjudeur, Woonsocket, R. I., assignor to Draper Company, Portland, Me., and Hopedale, Mass. Shuttle for looms	630,793	Aug. 8	1994	451	88	1125
Aubeuf, Eugene P. (See Aubeuf, Frank H., assignor.)						
Aubeuf, Frank H., assignor of one-half to E. P. Aubeuf, Oneida, N. Y. Thill-coupling	632,036	Aug. 29	4268	959	88	1623
Auble, James H., Dent, Ohio, assignor of one-half to J. Schneider, Lawrenceburg, Ind. Mechanism for transmitting power	627,467	June 27	2342	516	87	2126
Auble, James H., Dent, Ohio, assignor of one-half to J. Schneider, Lawrenceburg, Ind. Mechanism for transmitting power	627,468	June 27	2345	516	87	2126
Auchly, Albert, Montgomery City, Mo. Hog-trap	621,200	Mar. 14	1234	272	86	1754
Aucoin, Arthur J., Thibodeaux, La. Clod-crusher	633,750	Sept. 26	2924	679	88	2321
Aughey, William H., Petroleum Centre, Pa. Curb-bit	636,099	Oct. 31	4031	922	89	854
Auglaize Machine Company. (See Gallagher, George B., assignor.)						
Augsburger, David, Berne, Ind. Evaporating apparatus	622,319	Apr. 4	215	49	87	41
Augustine, Archie M., Normal, Ill. Fruit-package and method of packing fruits for shipment	637,844	Nov. 28	3454	721	89	1708
Ault & Wiborg Company. (See Hochstetter, Robert W., assignor.)						
Aultman & Taylor Machinery Company. (See Galland, Joseph, assignor.)						
Aumann, Louis A. (See O'Connell, John, assignor.)						
Aumont, Alfred, Collingwood, assignor of one-half to F. A. Campbell, Melbourne, Victoria. Contrivance for holding match-boxes having sliding covers	623,864	Apr. 25	3080	710	87	648
Aumund, Johannes, Zurich, Switzerland. Clock striking mechanism	621,482	Mar. 21	1749	389	86	1865
Aurora Automatic Machinery Company. (See Holck, John H., assignor.)						
Aurora Automatic Machinery Company. (See Levedahl, Axel, assignor.)						
Aurora Standard Light Company. (See Wood, Frank S., assignor.)						
Auspitz, Franz, Vienna, Austria-Hungary. Coin-controlled locking device for securing articles	625,488	May 23	2789	635	87	1304
Austin Cartridge Company. (See Morris, William L., assignor.)						
Austin, David E., assignor of one-half to F. T. Caughey, Detroit, Mich. Heater	620,874	Mar. 14	631	138	86	1639
Austin, Dow B., Grand Rapids, Mich. Coin-controlled lock for bicycle-stands	629,759	Aug. 1	3	1	88	721
Austin & Eddy. (See Fernald, George W., assignor.)						
Austin, Fannie M. (See Sparks, Thomas J., assignor.)						
Austin, Frederick C. (See Borrman, William, assignor.)						
Austin, Frederick C. (See Bunnell, Morton G., assignor.)						
Austin, Frederick C. (See Edwards and Gray, assignors.)						
Austin, Frederick C. (See Freeman, Philander B., assignor.)						
Austin, Frederick C. (See Morenus, William H., assignor.)						
Austin, Frederick C. (See Rhodes, Jay B., assignor.)						
Austin, Frederick C. (See Skinner, Courtland, assignor.)						
Austin, Frederick C. (See Ward, David D., assignor.)						
Austin, George B. H., Armadale, Victoria. Mechanism for utilizing bumping of vehicles for assisting propulsion	622,101	Mar. 28	2897	654	86	2104
Austin, George B. H., Armadale, Victoria. Mechanism for assisting in propulsion of cycles	633,943	Sept. 26	3232	753	88	2383
Austin, Henry E., Port Trevorton, Pa. Tripod	627,170	June 20	1765	386	87	1994
Austin, Henry F., Scott's Hill, Tenn. Pot and lid lifter	625,312	May 23	2484	563	87	1244
Austin, Henry K., Reading, Mass. Coupling for air-pumps	637,915	Nov. 28	3596	753	89	1738
Austin, Herbert, Birmingham, England. Lathe-chuck	627,815	June 27	2985	652	87	2253
Austin, Lloyd, assignor of one-half to J. B. Salter, Anaconda, Mont. Blowpipe	636,100	Oct. 31	4032	923	89	855
Austin, Robert M., Derby, Conn. Culinary device for frying or roasting meats	638,860	Dec. 12	1250	283	89	2129
Austin, Stephen J., Terre Haute, Ind. Platform-scale	636,613	Nov. 7	681	148	89	1059
Austin, William J., Milwaukee, Wis. Expansion-joint for railway-rails	636,233	Nov. 7	2	1	89	925
Austin, William N., assignor of one-half to W. W. Harrison, Texas, Mich. Pipe-vent	631,920	Aug. 29	4056	910	88	1581
Austin, Willis R., and W. N. Craw, South Norwalk, Conn. Combined necktie-holder and collar-button	616,876	Jan. 3	8	2	86	4
Austin, Willis R., and W. N. Craw, South Norwalk, Conn. Collar-button	638,618	Dec. 5	814	175	89	2022

Alphabetical list of patentees—Continued.

Name, residence, and invention.	No.	Date.	Monthly volume.		Official Gazette.	
			Spec.	Dr'g.	Vol.	Page.
Autographic Register Company. (See Shoup and Boller, assignors.)						
Automatic Air Carriage Company. (See Pettee and McCutchan, assignors.)						
Automatic Brake Syndicate, (Gardner's Patents.) (See Hearson and Shaw, assignors.)						
Automatic Cabinet and Paper Company. (See Freese, Claus, assignor.)						
Automatic Electric Clock Company. (See Getty, Fred I., assignor.)						
Automatic Electric Pump Company. (See Curtis, Frank G., assignor.)						
Automatic Gas and Gasoline Engine Company. (See Mahon, Alexander, assignor.)						
Automatic Gas Lamp Company. (See Yarton, James A., assignor.)						
Automatic Gas Lighting and Extinguishing Company, Limited, (Hoare & Kennedy's Patent.) (See Hoare and Kennedy, assignors.)						
Automatic Lubricator Company. (See Freeman and Armstrong, assignors.)						
Automatic Telephone Company. (See Seligmann-Lui, Gustave, assignor.)						
Automatic Trip Railroad Gate Company. (See Turner and Hydebrand und der Lasa, assignors.)						
Automatic Weighing, Lifting, and Grip Machine Company. (See Merry, George G. S., assignor.)						
Autono Company. (See Poole, Thomas J., assignor.)						
Autrie, James P., Condor, Ga. Car-coupling	622,590	Apr. 4	736	170	87	140
Avedisyan, Avedis D., Boston, Mass. Non-refillable bottle	626,516	June 6	547	126	87	1719
Averill, William L., Painesville, Ohio. Means for producing sand beaches	618,319	Jan. 24	2783	617	86	592
Averitt, Cyrus M., Kansas City, Mo. Adjustable string-clamp or capo tasto for guitars	620,560	Mar. 7	4	1	86	1503
Avery, Andrew J., Pittsfield, N. H. Tea or coffee pot	634,861	Oct. 17	1637	383	89	359
Avery, Charles E., New York, N. Y., assignor to E. J. Toof, New Haven, Conn. Sausage-linking machine	639,648	Dec. 19	2690	617 618	89	2431
Avery, Frederic R., administrator. (See Avery, Robert H.)						
Avery, Frederick C., Toledo, Ohio. Bicycle-saddle	623,505	Apr. 25	2409	553	87	521
Avery, Frederick C., Toledo, Ohio. Bicycle-saddle	636,312	Nov. 7	147	32	89	950
Avery, George C., assignor to B. F. Avery & Sons, Louisville, Ky. Cultivator and handle therefor	636,743	Nov. 14	989	211	89	1149
Avery, Henry W., and W. S. Judd, assignors to Avery Stamping Company, Cleveland, Ohio. Post-hole digger	626,959	June 13	1393	307	87	1902
Avery Planter Company. (See Avery, Robert H., assignor.)						
Avery, Robert H., deceased; F. R. Avery, administrator, assignor to Avery Planter Company, Peoria, Ill. Cultivator-shovel clamp	617,217	Jan. 3	675	157	86	131
Avery & Rouse Steam Thresher Company. (See Bartholomew, John B., assignor.)						
Avery & Sons, B. F. (See Avery, George C., assignor.)						
Avery Stamping Company. (See Avery and Judd, assignors.)						
Avery, Tracy G., assignor of one-half to E. R. Mason and H. M. Hart, Binghamton, N. Y. Pedal attachment	639,132	Dec. 12	1727	398	89	2222
Avery, William G., Cleveland, Ohio. Tote-box	623,964	May 2	5	1	87	703
Avery, William W., *et al.* (See Müller-Jacobs, Armand, assignor.)						
Awcock, Edward G., New Orleans, La. Strap-protector	632,086	Aug. 29	4363	981	88	1641
Axt, Henry. (See Stanek and Axt.)						
Axtell, A. D. (See Russ, Albert B., assignor.)						
Axtell, Frank C., Short Hills, N. J., assignor to Celluloid Company, New York, N. Y. Photographic film	623,963	May 2	3	------	87	703
Axtell, Lucius, Tompkins, assignor to D. W. Lewis, Rock Royal, N. Y. Method of and apparatus for treating casein curd	629,644	July 25	3149	734	88	668
Ayasse, John H., Newark, N. J. Pressure apparatus for stored fermented liquids	630,160	Aug. 1	809	174 175	88	882
Ayer, Fernando P., Nashua, N. H. Hook and eye	627,469	June 27	2347	516	87	2127
Ayer, Fred W., assignor to Eastern Manufacturing Company, Bangor, Me. Digester	624,608	May 9	1216	274	87	958
Ayer, Harry L. (See Shaw, Henry F. and G. F., assignors.)						
Ayer, Silas H., Boston, Mass., assignor to Lightning-Change Advertising Company, of Maine. Advertising apparatus	623,865	Apr. 25	3081	710	87	648
Ayers, James R., Petersburg, Va. Peanut-planter	635,635	Oct. 24	3101	712	89	660
Ayers, James R., Petersburg, Va. Corn-planter	637,954	Nov. 28	3661	768 769	89	1749
Ayers, John H., Lansing, Mich. Centrifugal cream-separator	637,758	Nov. 28	3300	689	89	1675
Ayers, Wilson D., Alameda, assignor to J. L. Champlin and E. F. Aiken, Oakland, Cal. Can-labeling machine	624,421	May 2	867	195	87	868
Aykroyd, Henry E. (See Aykroyd, William E., W. H., and H. E.)						
Aykroyd, William E., W. H., and H. E., Bradford, England. Apparatus for mercerizing	620,530	Feb. 28	3128	715 716 717	86	1473
Aykroyd, William H. (See Aykroyd, William E., W. H., and H. E.)						
Ayling Brothers. (See Ayling, William, assignor.)						
Ayling, William, assignor to Ayling Brothers, Chicago, Ill. Stove-polish	620,405	Feb. 28	2924	------	86	1433
Aylmer, Henry, Richmond, Canada. Miner's drill	622,409	Apr. 4	376	86	87	70
Aylmer, Henry, Richmond, assignor of one-half to J. H. Plummer, Toronto, Canada. Drill	635,415	Oct. 24	2704	618	89	582
Aylward, John J. (See Schoeffel and Aylward.)						
Ayotte, Theophile E., and A. A. Charbonneau, Montreal, Canada. Brick-machine	625,866	May 30	3492	790 791	87	1458
Ayres, Paul, New York, N. Y. Fresh-air-inlet valve	628,061	July 4	182	41	88	37
Ayres, Seymour A., Bay City, Mich. Carbureting device for gas or explosive engines	632,509	Sept. 5	541	125 126	88	1814
Ayres, Seymour A., Bay City, Mich. Gas-engine	632,888	Sept. 12	1305	300	88	1979
Ayres, Wallace S., Hazleton, Pa. Hitching-staple	628,911	July 18	1817	423	88	391
Ayton, Robert C., Coventry, England. Steering apparatus for cycles	633,063	Sept. 12	1587	369	88	2034
Azote Powder Company. (See Moffatt, Ansil, assignor.)						
Azzimonti, John, New York, N. Y. Shoe	621,892	Mar. 28	2527	569	86	2031
Baasen, M. F. Elisabeth, *et al.* (See Hachmann, Frederick, assignor.)						
Babb, Christopher C., assignor of one-half to L. M. Washington, J. W. Moon, and A. J. Camp, Dallas, Ga. Car-coupling	638,658	Dec. 5	878	192	89	2036
Babbe, Fridrick H. B., Sanger, Cal. Swimming apparatus	634,128	Oct. 3	278	68	89	58
Babcock, Charles P., Minneapolis, assignor of two-thirds to C. Conradis, St. Paul, Minn. Sheet-adjuster for printing-presses	617,456	Jan. 10	1143	260	86	240
Babcock, Frank H., Johnsonburg, Pa. Folding shade	626,821	June 13	1107	248	87	1846
Babcock, Ira J., New York, N. Y., assignor to Universal Lock Company, of New Jersey. Lock	624,609	May 9	1218	274	87	959
Babcock, Lucien C., New York, N. Y. Safety provision for elevators	621,313	Mar. 21	1454	322	86	1809
Babcock Printing Press Manufacturing Company. (See Farrington, John A., assignor.)						
Babcock, W. Irving. (See Gunnell, Elias, assignor.)						
Babcock, Washington I., Chicago, Ill., assignor to Wellman-Seaver Engineering Company, Cleveland, Ohio. Crane	627,890	June 27	3116	682	87	2278

Alphabetical list of patentees—Continued.

Name, residence, and invention.	No.	Date.	Monthly volume.		Official Gazette.	
			Spec.	Dr'g.	Vol.	Page.
Babcock, Washington I., Chicago, Ill., and J. W. Seaver, Cleveland, Ohio. Crane structure	625,135	May 16	2164	491	87	1158
Babcock & Wilcox Company. (See Higgins, Campbell P., assignor.)						
Babcock & Wilcox Company. (See Hoxie, William D., assignor.)						
Babcock, William G., assignor to F. W. Hillard, New York, N. Y. Type-writer	617,798	Jan. 17	1799	403	86	389
Babendreier, Arthur O. (See King and Babendreier.)						
Babin, Telesphore, Houma, La. Water-sprinkler	620,728	Mar. 7	357	73	86	1571
Baca, August, Fayetteville, Tex. Composition railway-tie and means for securing rails thereto	633,413	Sept. 19	2304	541	88	2186
Baca, August, Fayetteville, Tex. Apparatus for cementing wells	637,693	Nov. 21	3185	660	89	1633
Baca, August, Fayetteville, Tex. Device for forcing water out of wells	637,694	Nov. 21	3186	660	89	1634
Bacci, Gustavo, and L. B. Piscopo, New York, N. Y. Candle-extinguisher	628,381	July 4	807	187	88	154
Bach, George T., Cincinnati, Ohio. Coin and bill holder	636,614	Nov. 7	683	149	89	1060
Bachman, Charles, assignor, by mesne assignments, to Electus Glove Button Shoe Company, Baltimore, Md. Button	625,532	May 23	2858	651	87	1377
Bachman, Frank E., Buffalo, N. Y. Blast-furnace casting apparatus	636,885	Nov. 14	1250	269	89	1201
Bachman, Oscar W., Slatington, Pa. Temporary binder	624,610	May 9	1220	274	87	959
Bachman, Rose. (See Griffith, Phares S., assignor.)						
Bachmann, Gustav A., Baltimore, Md. Process of and apparatus for extracting wort from mash	621,014	Mar. 14	904	197	86	1689
Bachmann, Josef F., and A. Vogt, assignors of two-thirds to J. Kirchner, A. Konig, C. C. Weiner, and A. Zorg, Vienna, Austria-Hungary. Carbon-clamp for electrical purposes	619,263	Feb. 14	891	199	86	1002
Bachmeyer, August, London, England. Incandescent gas-burner	629,285	July 18	2465	573	88	514
Bachner, Adolf, Berliu, Germany. Apparatus for igniting gas-jets	629,146	July 18	2241	519 520	88	474
Bachner, Wilhelm, Stuttgart, Germany. Refrigerating ice-chamber	634,791	Oct. 10	1499	353	89	314
Bachner, Wilhelm, Stuttgart, Germany. Apparatus for cooling beer or other liquids	634,792	Oct. 10	1501	353	89	315
Bachner, Wilhelm, Stuttgart, Germany. Apparatus for filling bottles	634,793	Oct. 10	1503	354	89	315
Back, Fritz. (See Vogt, Adolf, assignor.)						
Bäck, John, Hancock, Mich. Suspenders	632,689	Sept. 12	921	215	88	1903
Backer, Charles, assignor of one-half to A. E. Raines, New York, N. Y. Automatic dead-latch lock	632,620	Sept. 5	738	169 170	88	1853
Backes, George W. (See Johnson, Frederick L., assignor.)						
Backus, David A., Groton, N. Y. Garment-supporter	624,441	May 9	909	204	87	900
Backus, William H., Danielson, Conn. Rake	624,899	May 16	1750	395	87	1081
Bacon, Arthur. (See Wiggins, John, assignor.)						
Bacon, Charles N., *et al.* (See Prescott, Joseph D., assignor.)						
Bacon, Daniel, assignor to Open Arc Carbon Company, New York, N. Y. Electric-arc carbon	626,661	June 13	803	183	87	1789
Bacon, Daniel, assignor to himself and A. G. Wheeler, Jr., trustees, New York, N. Y. Magnetic actuator	638,901	Dec. 12	1327	301	89	2145
Bacon, Marie R., Chicago, Ill. Safety-guard for children's cribs	633,353	Sept. 19	2192	515	88	2165
Badcock, William, *et al.* (See Waterfield, John, assignor.)						
Badeker, John, Omaha, Nebr. Piston-rod packing	626,129	May 30	4046	923	87	1560
Badeker, John, assignor to Western Metallic Packing Company, Omaha, Nebr. Piston-rod packing	636,101	Oct. 31	4034	923	89	855
Badger, Franklin H., and W. J. Plews, assignors of one-third to R. E. T. Pringle, Montreal, Canada. Electric safety appliance	631,145	Aug. 15	2641	598	88	1275
Badger, Harry S., assignor of one-half to C. W. Caryl, Denver, Colo. Electrolytic apparatus for precipitating metals	633,544	Sept. 19	2518	591	88	2226
Badger, Oliver L., Allegheny, Pa. Heating and ventilating rooms	633,712	Sept. 26	2859	664 665	88	2308
Badger, Oliver L., Allegheny, Pa. Draft and temperature regulator	634,257	Oct. 3	541	136	89	109
Badgett, Luther B., assignor of one-half to M. E. Nicholson, Reedy, W. Va. Lock for railway-switches, &c	632,393	Sept. 5	336	76	88	1773
Badgley, Eugene F., San Francisco, Cal. Manufacture of pipes	623,590	Apr. 25	2573	589	87	552
Badische Anilin and Soda Fabrik. (See Bally, Oscar, assignor.)						
Badische Anilin and Soda Fabrik. (See Bernthsen, Heinrich A., assignor.)						
Badische Anilin and Soda Fabrik. (See Bernthsen and Jaubert, assignors.)						
Badische Anilin and Soda Fabrik. (See Bernthsen and Julius, assignors.)						
Badische Anilin and Soda Fabrik. (See Bohn, René, assignor.)						
Badische Anilin and Soda Fabrik. (See Caro, Heinrich, assignor.)						
Badische Anilin and Soda Fabrik. (See Heumann, Karl, assignor.)						
Badische Anilin and Soda Fabrik. (See Isler, Max H., assignor.)						
Badische Anilin and Soda Fabrik. (See Julius, Paul, assignor.)						
Badische Anilin and Soda Fabrik. (See Julius and Darier, assignors.)						
Badische Anilin and Soda Fabrik. (See Julius and Laiblin, assignors.)						
Badische Anilin and Soda Fabrik. (See Julius and Tkatsch, assignors.)						
Badische Anilin and Soda Fabrik. (See Koerner, Georg, assignor.)						
Badische Anilin and Soda Fabrik. (See Müller, Carl O., assignor.)						
Badische Anilin and Soda Fabrik. (See Schmid and Rey, assignors.)						
Badische Anilin and Soda Fabrik. (See Terrisse and Darier, assignors.)						
Badlam, Edgar B., San Francisco, Cal. Flushing-tank for closets	626,882	June 13	1268	277	87	1877
Badollet, Henry S. (See Cook, George W., assignor.)						
Baer, Alexander E. (See Pool, Elmer C., assignor.)						
Baer, David O. and J. H., and G. W. Dunbar, Clark's Hill, Ind. Apparatus for setting fence-posts	623,064	Apr. 11	1572	363	87	321
Baer, Henry C., New York, N. Y. Means for giving alarms through agency of smoke or other gases	632,546	Sept. 5	632	147	88	1831
Baer, John H. (See Baer and Dunbar.)						
Baethig, Henry, Buffalo, N. Y. Alarm-watch	637,366	Nov. 21	2215	476	89	1403
Baetz, Henry, St. Louis, Mo. Hot-air blower-furnace	617,432	Jan. 10	1107	253	86	234
Baeuerle, Jerome A., Kalamazoo, Mich. Belt-clasp	621,311	Mar. 14	1444	319	86	1794
Bagby, Eugene A., Winchester, Ky Means for irrigation and drainage	640,077	Dec. 26	3485	799	89	2608
Bagg, Fred H. (See Armstrong, Walter S., assignor.)						
Bagg, S. F. (See Palmiter, Clebron D., assignor.)						
Baggaley, Joshua. New York, N. Y. Safety-stop	635,222	Oct. 17	2302	537	89	488
Baggett, Charles B., Weatherford, Tex. Canopy-frame	624,152	May 2	395	81	87	775
Baggett, James N., Bartow, Fla. Tool for electricians	634,862	Oct. 17	1638	383	89	359
Baggett, Lee, Jackson, Miss. Press for expressing liquids from solids	626,646	June 6	766	175 176	87	1762
Bagley, Charles H., assignor of one-half to T. W. Dorsett, Hoboken, N. J. Mixing device	636,737	Nov. 7	961	206	89	1126
Bagley, Daniel F., New York, N. Y. Buttonhole-moistener	633,779	Sept. 26	2972	690	88	2331
Bagley, Frank A., assignor of one-half to E. Oehrle and L. Bedford, Omaha, Nebr. Cuff-fastener	617,304	Jan. 3	839	195	86	165
Bagley, Frank A., assignor of one-half to J. P. Finley, Omaha, Nebr. Windmill and pump coupling	639,494	Dec. 19	2414	557	89	2374

Alphabetical list of patentees—Continued.

Name, residence, and invention.	No.	Date.	Monthly volume.		Official Gazette.	
			Spec.	Dr'g.	Vol.	Page.
Bagley, Thomas J., and J. Felix; said Bagley assignor to J. von Handorf, Covington, Ky. Window-curtain fixture	627,891	June 27	3117	683	87	2278
Bagley, William I., assignor of one-half to J. W. Hiscock, Knoxville, Tenn. Grate attachment	618,766	Jan. 31	3607	806	86	765
Bagnall, William, assignor to Oliver Iron and Steel Company, Pittsburg, Pa. Tie-plate	627,816	June 27	2988	653	87	2253
Baier, Joseph M., Dayton, Kans. Shooting-gallery	620,011	Feb. 21	2231	506 / 507	86	1286
Bailey, Charles A., Cromwell, Conn. Pipe-coupling	635,636	Oct. 24	3103	713	89	660
Bailey, Charles A., assignor to J. & E. Stevens Company, Cromwell, Conn. Wheeled toy	630,794	Aug. 8	1995	451	88	1125
Bailey, Charles A., assignor to J. & E. Stevens Company, Cromwell, Conn. Toy money-box	630,795	Aug. 8	1996	452	88	1125
Bailey, Charles F. (See Eaton and Bailey.)						
Bailey, Charles J., Newton, Mass. Bicycle-tire. (Reissue)	11,768	Aug. 29	4632	1044	88	1694
Bailey, Eben E. (See Loveless, Fred H., assignor.)						
Bailey, Edward L., *et al.* (See Craw, Joseph T., assignor.)						
Bailey, Ernest, G. R. Cox, and W. T. Hey, York, England. Process of and apparatus for producing white lead	625,918	May 30	3585	814	87	1475
Bailey, Frank W., *et al.* (See Timmis, William, assignor.)						
Bailey, Frederick M. (See Lewis and Bailey.)						
Bailey, George W., New York, N. Y. Composition of matter	639,495	Dec. 19	2416	------	89	2375
Bailey, Harry D., and H. B. Budgett, London, England. Toy pistol and game apparatus	621,440	Mar. 21	1660	367 / 368	86	1848
Bailey, Henry C., Kent, Ohio, assignor to J. D. Foot, New York, N. Y. File-cutting machine	625,235	May 16	2331	531	87	1190
Bailey, Henry C., Kent, Ohio, assignor to J. D. Foot, New York, N. Y. File or rasp cutting machine	625,236	May 16	2333	532	87	1191
Bailey, Henry J. (See Sorlie and Bailey.)						
Bailey, Herbert L., assignor to Bailey Manufacturing Company, Chicago, Ill. Back-pedaling brake	620,631	Mar. 7	152	32	86	1532
Bailey, James, and F. L. Armstrong, Kingstown, Ireland. Coal-receptacle	617,707	Jan. 17	1608	362	86	351
Bailey, James M., Allegheny, Pa. Stay-bolt	630,161	Aug. 1	812	175	88	883
Bailey, Leonard, Wethersfield, Conn. Screw-cutting machine	631,770	Aug. 29	3804	847	88	1532
Bailey, Leonard C., Washington, D. C. Folding bed	629,286	July 18	2465	574	88	514
Bailey Manufacturing Company. (See Bailey, Herbert L., assignor.)						
Bailey, Reginald A., West Newton, Pa. Non-explosive oil-can	639,881	Dec. 26	3119	717	89	2532
Bailey, Robert M., Williamsport, Pa., assignor to American Bell Telephone Company, Boston, Mass. Combined telegraph and telephone	630,841	Aug. 15	2085	471	88	1166
Bailey, Samuel R., Amesbury, Mass. Perch connection for carriages	623,123	Apr. 18	1720	398	87	363
Bailey, Samuel R., Amesbury, Mass. Adjustable axle-nut	623,124	Apr. 18	1722	398	87	363
Bailey, Samuel R., Amesbury, Mass. Perch connection for carriages	623,125	Apr. 18	1723	398	87	363
Bailey, Samuel R., Amesbury, Mass. Adjustable axle-nut	623,126	Apr. 18	1724	399	87	363
Bailey, Samuel R., Amesbury, Mass. Carriage axle-bearing	623,456	Apr. 18	2318	531	87	484
Bailey, Samuel R., Amesbury, Mass. Carriage-spring	630,162	Aug. 1	813	175	88	883
Bailey, Selden A., New York, N. Y. Bicycle-saddle spring	620,012	Feb. 21	2234	507	86	1387
Bailey, Thomas, New York, N. Y. Metallic building construction	632,669	Sept. 5	852	198 / 199	88	1878
Bailey, Thomas O. P., Pittsburg, and W. G. Bailey, Imperial, assignors of one-half to M. H. Stevenson, Pittsburg, Pa. Mail-bag catcher	624,444	May 9	912	205	87	900
Bailey, Thomas R., Pittsburg, Pa. Slide-valve	636,394	Nov. 7	283	63	89	978
Bailey, William H., Auburn, R. I. Eyeglass-holder	622,658	Apr. 11	873	200	87	185
Bailey, William H., Salford, England. Apparatus for recording movements of railway-trains, &c	630,312	Aug. 8	1088	237 / 238	88	952
Bailey, William O., London, England. Means for grinding or polishing glass, metal, &c.	617,668	Jan. 10	1527	346 / 347	86	317
Bailey, Wilmot G. (See Bailey, Thomas O. P. and W. G.)						
Baily, John B., Cedar Rapids, Iowa. Nutmeg-grater	630,313	Aug. 8	1089	238	88	952
Bainbridge, Thomas A., St. Louis, Mo. Car-wheel	626,517	June 6	549	127	87	1720
Bainbridge, William H., *et al.* (See Painton, Richard B., assignor.)						
Baines, Edward, New York, N. Y. Manufacture of electric batteries	636,938	Nov. 14	1371	------	89	1224
Baines, Edward, assignor to W. C. Callmann and C. A. Stern, New York, N. Y. Primary battery	628,739	July 11	1496	346	88	312
Baines, Hugh, assignor of three-fifths to R. H. Roy, New York, N. Y. Safety attachment for elevators	637,440	Nov. 21	2344	506	89	1429
Bainter, Charles F., assignor of two-thirds to G. W. Possell and C. M. Persons, Los Angeles, Cal. Apparatus for purifying feed-water and feeding boilers	637,223	Nov. 21	1936	414	89	1347
Bainter, Charles F., assignor of two-thirds to C. M. Persons and G. W. Possell, Los Angeles, Cal. Water heater and purifier	637,224	Nov. 21	1940	415	89	1348
Bainter, Charles F., assignor of one-half to G. W. Possell and C. M. Persons, Los Angeles, Cal. Rotary engine	638,375	Dec. 5	363	76	89	1935
Bair, Alvin, Tiffin, Ohio. Magazine or retort for stoves or furnaces	619,709	Feb. 21	1680	385	86	1181
Bair, Victor O. (See Eustice and Bair.)						
Baird, Charles W., assignor of one-half to W. I. Kidney, New York, N. Y. Boiler-furnace	633,414	Sept. 19	2305	542	88	2186
Baird, James, Devonport, New Zealand. Rotary engine	623,457	Apr. 18	2319	531 / 532	87	485
Baird, John E., Utica, N. Y. Potato-digger	633,091	Sept. 12	1667	393	88	2050
Baird, John P., New York, N. Y. Cut-off device for vehicle-washing hose	624,422	May 2	869	196	87	868
Baird, John P., New York, N. Y. Overhead vehicle-washer	624,423	May 2	871	196	87	868
Baird, John W., Portobello, Scotland. Cycle	619,656	Feb. 14	1568	357	86	1133
Baird, Robert M., New York, N. Y. Curtain-shade	617,799	Jan. 17	1805	403	86	391
Baird, William H., Burlington, Iowa. Artificial teeth	626,779	June 13	1040	233	87	1835
Baker, A. B. (See Beaudin, Elie, assignor.)						
Baker, Andrew H., Brockton, Mass. Fastener for shoe-uppers	624,287	May 2	631	138	87	819
Baker, August W., Cleveland, Ohio. Railway-switch-operating mechanism	626,662	June 13	804	183	87	1789
Baker, Barnett, Minneapolis, Minn. Darning apparatus	620,531	Feb. 28	3131	717	86	1473
Baker, Charles A., Binghamton, N. Y. Header for cigar-bunch-rolling machines	639,190	Dec. 12	1844	424	89	2245
Baker, Charles A., Binghamton, N. Y. Header for bunch-rolling machines	639,191	Dec. 12	1845	424 / 425	89	2245
Baker, Charles H., St. James, Mo. Check-row corn-planter	621,201	Mar. 14	1235	272 / 273	86	1754
Baker, Charles W., Montclair, N. J. Water and steam separator	630,023	Aug. 1	556	122 / 123	88	833
Baker, Charles W., Montclair, N. J. Steam-separator	630,024	Aug. 1	561	123 / 124	88	834
Baker, Clark A., Webster's Crossing, N. Y. Tongue-supporting device	634,974	Oct. 17	1833	434	89	397

Alphabetical list of patentees—Continued.

Name, residence, and invention.	No.	Date.	Monthly volume.		Official Gazette.	
			Spec.	Dr'g.	Vol.	Page.
Baker, Delos M., *et al.* (See Hoxie, George L., assignor.)						
Baker, Dickerson G., assignor to Willimantic Linen Company, Willimantic, Conn. Machine for winding cops of thread	617,071	Jan. 3	406	99, 100	86	79
Baker, Dickerson G., assignor to Willimantic Linen Company, Willimantic, Conn. Bobbin-winder	626,403	June 6	354	82, 83, 84	87	1682
Baker, Edmund K., Springfield, Mass. Spinning-machine	622,836	Apr. 11	1172	272, 273, 274, 275	87	241
Baker, Edmund K., Springfield, Mass. Spinning-machine	627,634	June 27	2667	585, 586	87	2191
Baker, Edward E., Pittshurg, Pa. Type-writer cabinet	625,082	May 16	2062	463	87	1139
Baker, Edward E., Pittshurg, Pa. Sectional hookcase	640,078	Dec. 26	3487	799	89	2608
Baker, Elbridge, Winchester, Mass., assignor to Nashoha Company, Portland, Me. Process of and apparatus for electrolytic decomposition of saline solutions	636,234	Nov. 7	3	1, 2	89	925
Baker, Eugene, assignor to H. W. Gilhert, Chicago, Ill. Bicycle-pedal	622,032	Mar. 28	2786	628	86	2082
Baker, Ezra, *et al.* (See Huff, George S., assignor.)						
Baker, Frederick, Caulfield, Victoria. Spike	621,737	Mar. 21	2221	500	86	1958
Baker, Frederick, Caulfield, Victoria. Contrivance for securing ax-heads or other tools upon their handles	625,136	May 16	2166	491	87	1158
Baker, Frederick H. (See Baker, Shevlin, and Baker.)						
Baker, George S. and W. K., Willesden, England. Machine for covering small articles with liquid or semiliquid coating	622,102	Mar. 28	2898	654, 655, 656	86	2104
Baker, George S. and W. K., London, England. Whisking or mixing machine	638,830	Dec. 12	1202	269, 270, 271	89	2120
Baker, Gerald C., London, England. Projectile	620,875	Mar. 14	632	138, 139	86	1639
Baker, Harry H., *et al.* (See Haddox, George W., assignor.)						
Baker, Henry C., assignor to Quincy Foundry and Novelty Company, Quincy, Ill. Heating-stove	623,115	Apr. 11	1699	392	87	343
Baker, Henry H., Jr., Buffalo, N. Y., assignor to Grand Rapids Cycle Company. Bicycle construction	624,442	May 9	910	205	87	900
Baker, Herbert A., Mosherville, Mich. Combined stock and hay rack	622,320	Apr. 4	216	49	87	41
Baker, Jackson R., Jersey City, N. J., assignor to Universal Car Bearing Company, New York, N. Y. Car-hearing	624,153	May 2	397	81	87	775
Baker, James D., assignor of two-thirds to G. W. Currier and E. Searle, Lawrence, Mass. Filling-block	625,919	May 30	3586	814	87	1476
Baker, James H., G. F. Shevlin, and F. H. Baker, Saratoga Springs, N. Y. Pulp-screen	625,237	May 16	2334	532	87	1191
Baker, James H., G. F. Shevlin, and F. H. Baker, Saratoga Springs, N. Y. Roll for winding paper webs	629,976	Aug. 1	461	100	88	814
Baker, James H., G. F. Shevlin, and F. H. Baker, Saratoga Springs, N. Y. Wet machine for wood-pulp	639,882	Dec. 26	3121	717, 718	89	2532
Baker, James W., Buzzard's Bay, Mass. Farm or stock gate	621,552	Mar. 21	1886	418	86	1891
Baker, Jeremiah M., Lafayette Hill, Pa. Bicycle	638,310	Dec. 5	235	48, 49	89	1911
Baker, John, Chicago, assignor of one-half to T. Robertson, Blue Island, Ill. Rail-joint	622,033	Mar. 28	2787	628	86	2082
Baker, John C. (See Widman and Baker.)						
Baker, John G., Philadelphia, Pa. Photographic-print holder	627,069	June 13	1584	346	87	1939
Baker, John G., Philadelphia, Pa. Apparatus for marking photographic negatives	639,496	Dec. 19	2416	557	89	2375
Baker, John G., Canterhury, England. Bolt	635,031	Oct. 17	1926	458	89	416
Baker, John H., Spivey, Tenn. Pea or bean separator	631,946	Aug. 29	4096	919	88	1589
Baker, John Q., Bradner, Ohio. Mail-hag catching and delivering mechanism	621,202	Mar. 14	1238	273, 274	86	1755
Baker, Joseph A. and W. K., London, England. Refuse-destructor, &c	639,649	Dec. 19	2693	619	89	2432
Baker, Judah S. (See Miehle, Charles E., assignor.)						
Baker, Meta C. (See Curtis, Lewis E., assignor.)						
Baker, Milo. (See Pooler, Fredrick A., assignor.)						
Baker, Milo A., Los Angeles, Cal. Bicycle saddle-support	627,451	June 20	2311	510	87	2103
Baker, Silas, Paw Paw, Ill. Holder for pot or kettle covers	624,443	May 9	911	205	87	900
Baker-Vawter Company. (See Russell, William M., assignor.)						
Baker, Walter S., Newark, N. J. Kite	621,593	Mar. 21	1944	435	86	1902
Baker, Willard D., assignor of one-half to E. N. Stearnes, Rogers, Ark. Drill or auger	623,506	Apr. 25	2410	553	87	521
Baker, Willard D., assignor of five-eighths to E. N. Stearnes and S. B. Wing, Rogers, Ark. Apparatus for making dry pickle	626,780	June 13	1041	233	87	1835
Baker, William H., *et al.* (See Chace, Malcolm G., assignor.)						
Baker, William H., Deadwood, S. D., assignor of one-half to A. Clark, Devils Lake, N. D. Separating precious metals from ores	630,842	Aug. 15	2086	471, 472	88	1167
Baker, William H., Central Falls, R. I., and F. E. Kip, Montclair, N. J. Loom	633,944	Sept. 26	3233	754	88	2383
Baker, William H., Central Falls, R. I., and F. E. Kip, Montclair, N. J. Loom	633,945	Sept. 26	3237	754, 755	88	2384
Baker, William H., Central Falls, R. I., and F. E. Kip, Montclair, N. J. Electrical warp stop-motion for looms	635,637	Oct. 24	3104	713	89	661
Baker, William H., Central Falls, R. I., and F. E. Kip, Montclair, N. J. Loom	636,704	Nov. 7	857	190, 191	89	1096
Baker, William H., Central Falls, R. I., and F. E. Kip, Montclair, N. J. Loom	636,705	Nov. 7	862	192	89	1098
Baker, William H., Central Falls, R. I., and F. E. Kip, Montclair, N. J. Loom	636,706	Nov. 7	865	192, 193	89	1098
Baker, William H., Central Falls, R. I., and F. E. Kip, Montclair, N. J. Weft-supply mechanism for looms	636,707	Nov. 7	868	193, 194	89	1099
Baker, William H., Central Falls, R. I., and F. E. Kip, Montclair, N. J. Loom	637,195	Nov. 14	1876	404	89	1320
Baker, William H., Central Falls, R. I., and F. E. Kip, Montclair, N. J. Loom	637,695	Nov. 21	3187	660, 661	89	1634
Baker, William H., Central Falls, R. I., and F. E. Kip, Montclair, N. J. Loom	637,753	Nov. 21	3287	686, 687	89	1655
Baker, William H., Central Falls, R. I., and F. E. Kip, Montclair, N. J., assignors to Kip-Armstrong Company, of New York. Electrical warp stop-motion for looms	621,594	Mar. 21	1946	435	86	1903
Baker, William H., Central Falls, R. I., and F. E. Kip, Montclair, N. J., assignors to Kip-Armstrong Company, of New York. Electrical warp stop-motion for looms	624,154	May 2	398	81, 82	87	776
Baker, William H., Central Falls, R. I., and F. E. Kip, Montclair, N. J., assignors to Kip-Armstrong Company, of New York. Warp stop-motion for looms	624,155	May 2	401	82	87	776
Baker, William H., Central Falls, R. I., and F. E. Kip, Montclair, N. J., assignors to Kip-Armstrong Company, of New York. Electrical warp stop-motion	632,004	Aug. 29	4212	948	88	1612
Baker William K. (See Baker, George S. and W. K.)						
Baker, William K. (See Baker. Joseph A. and W. K.)						
Baker, William M., Fortville, Ind. Harrow	623,759	Apr. 25	2842	651	87	602

Alphabetical list of patentees—Continued.

Name, residence, and invention.	No.	Date.	Monthly volume. Spec.	Monthly volume. Dr'g.	Official Gazette. Vol.	Official Gazette. Page.
Baker, William S. G., Baltimore, Md. Car-axle box	634,975	Oct. 17	1835	435	89	398
Baker, William S. G., Baltimore, Md. Car-truck	634,976	Oct. 17	1836	435 436	89	398
Baker, William S. G., Baltimore, Md. Car-brake	637,845	Nov. 28	3456	722	89	1708
Bakker, Coenraad, *et al.* (See Tienhoven, Baltazar W., assignor.)						
Balch, Frederick O., assignor of one-half to F. Huntzicker, Neillsville, Wis. Jug-carrier	626,139	May 30	4048	924	87	1560
Balcom, William D., Norwich, Conn. Combined drill and tap	624,156	May 2	406	83	87	777
Balcom, William D., Norwich, Conn. Collapsible tap	624,157	May 2	407	83	87	777
Balderston, Charles, assignor to C. P. Bancroft, Philadelphia, Pa. Timber-seat	631,194	Aug. 15	2720	616	88	1291
Baldry, George, Ditchingham, England. Door or gate fastener	616,877	Jan. 3	9	3	86	4
Baldt, Frederick, Chester, Pa. Device for molding propeller-wheels	627,794	June 27	2944	644 645	87	2245
Baldt, Frederick, Chester, Pa. Rudder	631,268	Aug. 22	2871	649	88	1339
Baldwin, Ada S., assignor to W. J. Barnard, Westtown, Pa. Composition for cleaning and polishing	631,353	Aug. 22	3400	------	88	1445
Baldwin, Alfred R. (See Lisenby and Baldwin.)						
Baldwin, Augustine, New York, N. Y. Bale-compressing press	637,696	Nov. 21	3190	661 662	89	1635
Baldwin, Chalkley B., assignor of three-fourths to G. K. Garrett and Wiedersheim & Fairbanks, Philadelphia, Pa. Combined wire swaging, heading, and bending machine	617,270	Jan. 3	771	180 181	86	152
Baldwin, Charles C., assignor to Percival Furniture Company, Barton, Vt. Pliers for clamping clips on wires	619,710	Feb 21	1682	385	86	1181
Baldwin, Charles E., Boston, Mass. Device for hanging or removing pictures	629,760	Aug. 1	4	1	88	722
Baldwin, Cyrus W., Yonkers, N. Y., assignor to National Company, Chicago, Ill. Safety device for elevators	637,496	Nov. 21	2447	531	89	1449
Baldwin, Daniel M., Griffin, Cal. Digger	626,360	June 6	280	64	87	1668
Baldwin, Franklin T., Baldwinsville, and M. E. Turnure, New York, N. Y. Hoof-pad	634,436	Oct. 3	879	212	89	177
Baldwin, George, and C. Crastin, London, England. Acetylene-gas generator	626,586	June 6	658	152 153	87	1742
Baldwin, George V., Jr. (See Higgins, Joseph C., assignor.)						
Baldwin, Luther C., assignor of one-third to F. J. Damon, Manchester, N. H. Device for hanging hats, &c	621,738	Mar. 21	2223	500	86	1958
Baldwin, Samuel R., *et al.* (See Stephenson, Robert S., assignor.)						
Baldwin, William B. (See Uhlig, Richard W., assignor.)						
Baldwin, William D., *et al.* (See Boening, Ernest, assignor.)						
Bales, Alanson H., Washington, Kans. Fruit-press	636,708	Nov. 7	874	194	89	1100
Bales, Emmor. (See Lamb and Bales.)						
Bales, Thomas M., Dublin, Ind. Grain-cleaner	635,223	Oct. 17	2303	537	89	488
Ball, Albert, assignor to Sullivan Machinery Company, Claremont, N. H. Device for holding packing	623,127	Apr. 18	1725	399	87	364
Ball, Alexander R., Corunna, Mich. Napkin-holder	621,762	Mar. 21	2272	512	86	1967
Ball, Alonzo C., Winona, Miss. Reflecting attachment for lamps	636,615	Nov. 7	684	149	89	1060
Ball and Socket Fastener Company. (See Richardson, William S., assignor.)						
Ball, Arthur R., and A. T. Riggs, Malvern, Kans. Adding and subtracting machine	633,374	Sept. 19	2229	525	88	2172
Ball-Bearing Company. (See Rogers, Winfield S., assignor.)						
Ball, Bert C., Plainfield, N. J. Vibrating tachometer	623,965	May 2	6	1	87	703
Ball, Charles C., Newark, N. J. Heater	630,163	Aug. 1	814	176	88	883
Ball, Charles E., assignor of one-half to J. Sertell, Alexandria, Ind. Machine for holding glass cylinders while being cut	627,288	June 20	1972	434	87	2037
Ball, Charles J., Los Angeles, Cal. Flushing-tank	630,437	Aug. 8	1372	308	88	1004
Ball, Cortland, assignor of one-half to W. D. Lewis, Indianapolis, Ind. Steam-cooker	629,320	July 18	2539	591	88	529
Ball, Edward W., and L. E. Vacheron, assignors to Lalance & Grosjean Manufacturing Company, New York, N. Y. Sink	627,070	June 13	1585	347	87	1939
Ball Electric Company. (See Ball, Royal E., assignor.)						
Ball, Francis L. (See Poyser and Ball.)						
Ball, Herman F. (See Waitt and Ball.)						
Ball, J. Frank, *et al.* (See Curry, John F., assignor.)						
Ball, John R., Durango, Colo. Shaft coupling or clamp	639,133	Dec. 12	1728	398	89	2223
Ball, Oscar. (See Eichholtz, Elius F., assignor.)						
Ball, Royal E., New York, assignor to Ball Electric Company, Yonkers, N. Y. Regulator for dynamo-electric machines	639,957	Dec. 26	3272	749	89	2564
Ball, Seymour D., Lock Haven, Pa. Fountain-pen	618,976	Feb. 7	255	73	86	878
Ballantine, Thomas, South Melbourne, Victoria. Child's carriage	635,638	Oct. 24	3107	713 714	89	661
Ballantyne, Clyde M. (See Roberts, Edwin, assignor.)						
Ballard & Ballard Company. (See Koelner, John, assignor.)						
Ballard, Casper L., assignor of one-half to S. R. Blanchard, Ottawa, Ill. Hydrocarbon-lighting device	634,794	Oct. 10	1505	354	89	316
Ballard, John R., Winfield, Kans. Thill-coupling	636,235	Nov. 7	8	2	89	926
Ballard, Samuel H. (See Nottingham, Lloyd, assignor.)						
Ballard, Samuel J., Los Angeles, Cal. Cigar-band cutter	630,164	Aug. 1	816	176	88	884
Ballbach, Louis, Detroit, Mich. Attachment for meat-cutting machines	621,203	Mar. 14	1240	274	86	1755
Ballerstedt, William, Altadena, Cal. Pruning implement	619,462	Feb. 14	1227	279	86	1068
Ballerstedt, William, Los Angeles, Cal. Traveling lawn-sprinkler	625,920	May 30	3587	814 815	87	1476
Balliett, Byron J., Mansfield, Ohio. Suspenders	625,997	May 30	3732	846	87	1504
Ballin, Cassimir C., Paris, France. Hub for vehicle-wheels	629,229	July 18	2371	550 551	88	497
Ballou, Franklin, Leadville, Colo. Smelting ores	634,566	Oct. 10	1117	------	89	240
Ballou, Fredcrick A., and C. A. Burdett, Providence, R. I.; said Burdett assignor to said Ballou. Gem-setting	634,567	Oct. 10	1118	265	89	240
Ballou, George F., New York, N. Y., assignor to H. N. Fisher, Waltham, Mass. Knife-grinding machine	621,204	Mar. 14	1242	274	86	1755
Ballou, George F., Newark, N. J., assignor to H. N. Fisher, Waltham, Mass. Knife-sharpener	624,137	May 2	895	202	87	874
Bally, Edward, Schoenenwerd, Switzerland. Shoe-fastening	626,404	June 6	361	84	87	1683
Bally, Oscar, Mannheim, assignor to Badische Anilin and Soda Fabrik, Ludwigshafen, Germany. Making green dyes	617,627	Jan. 10	1454	------	86	303
Bally, Oscar, Mannheim, assignor to Badische Anilin and Soda Fabrik, Ludwigshafen, Germany. Anthraquinone derivative and making same	617,981	Jan. 17	2130	------	86	455
Bally, Oscar, Mannheim, assignor to Badische Anilin and Soda Fabrik, Ludwigshafen, Germany. Yellow dye and making same	618,000	Jan. 17	2163	------	86	460
Bally, Oscar, Mannheim, assignor to Badische Anilin and Soda Fabrik, Ludwigshafen, Germany. Green-black dye and making same	619,114	Feb. 7	603	------	86	929
Bally, Oscar, Mannheim, assignor to Badische Anilin and Soda Fabrik, Ludwigshafen, Germany. Bluish dye and making same	619,115	Feb. 7	605	------	86	929

Alphabetical list of patentees—Continued.

Name, residence, and invention.	No.	Date.	Monthly volume.		Official Gazette.	
			Spec.	Drg.	Vol.	Page.
Bally, Oscar, Mannheim, assignor to Badische Anilin and Soda Fabrik, Ludwigshafen, Germany. Green dye and making same	631,605	Aug. 22	3496	------	88	1465
Bally, Oscar, Mannheim, assignor to Badische Anilin and Soda Fabrik, Ludwigshafen, Germany. Halogen derivative of anthraquinone and making same	631,606	Aug. 22	3498	------	88	1465
Bally, Oscar, Mannheim, assignor to Badische Anilin and Soda Fabrik, Ludwigshafen, Germany. Dibrom anthraquinone derivative and making same	631,607	Aug. 22	3500	------	88	1465
Bally, Oscar, Mannheim, assignor to Badische Anilin and Soda Fabrik, Ludwigshafen, Germany. Anthraquinone derivative and making same	631,608	Aug. 22	3500	------	88	1465
Bally, Oscar, Mannheim, assignor to Badische Anilin and Soda Fabrik, Ludwigshafen, Germany. Brominated dye	632,621	Sept. 5	741	------	88	1853
Balmer, Benjamin F., Edson, Kans. Chart-holder	618,767	Jan. 31	3608	806	86	765
Bals, Max, assignor to Herzfelder & Fröhlich, Vienna, Austria-Hungary. Making matches from pasteboard	632,087	Aug. 29	4364	981	88	1641
Balsley, Joseph, Indianapolis, Ind. Burglar-alarm	621,781	Mar. 28	2313	520	86	1990
Balsley, Joseph, Indianapolis, Ind. Burglar-alarm	621,782	Mar. 28	2315	520	86	1990
Balthasar, Curt J., assignor of one-half to J. W. Fryer, New York, N. Y. Valve for steam-radiators	619,264	Feb. 14	892	199	86	1002
Baltimore Ball Bearing Company of Baltimore City. (See Norwood, John E., assignor.)						
Baltimore Filter Company. (See Potter, Zoroaster F., assignor.)						
Baltzer, John L., Chelsea, Mass. Punch	618,022	Jan. 17	2206	492	86	469
Baltzley, Edwin. (See McIntyre and Baltzley.)						
Baltzley, Henry H., assignor of one-half to C. S. Clark, Assumption, Ill. Tire-tightener	622,591	Apr. 4	737	170	87	140
Baluss, Hamilton, Jr., Wayne, Mich. Electric block system for railways	617,139	Jan. 3	539	128	86	106
Balwick, Louis H., assignor to P. A. Joyce and F. J. Peddie, Detroit, Mich. Form for displaying goods	620,632	Mar. 7	155	32	86	1532
Bamford, John W., Pascoag, R. I. Cap-spindle	619,064	Feb. 7	508	107	86	909
Bancroft, Albert L., Walnut Creek, Cal. Parcel-carrier for bicycles	621,772	Mar. 21	2291	515	86	1970
Bancroft, Charles F., assignor of one-half to P. F. Sullivan, Lowell, Mass. Automatic system for preventing collisions on electric railways	621,205	Mar. 14	1243	274, 275	86	1756
Bancroft, Charles P. (See Balderston, Charles, assignor.)						
Bancroft, James E., Toledo, Ohio. Vulcanizer	622,175	Mar. 28	3049	691	86	2135
Bancroft, James E., assignor to National Cement and Rubber Manufacturing Company, Toledo, Ohio. Repair-patch for rubber tires	622,436	Apr. 4	426	99	87	79
Bancroft, James E., assignor to National Cement and Rubber Manufacturing Company, Toledo, Ohio. Hydrocarbon-burner	626,405	Juue 6	362	85	87	1684
Bancroft, James E., assignor to National Cement and Rubber Manufacturing Company, Toledo, Ohio. Vulcanizer	636,236	Nov. 7	10	2,3	89	926
Bancroft, James E., assignor to National Cement and Rubber Manufacturing Company, Toledo, Ohio. Vulcanizer	636,237	Nov. 7	11	3	89	927
Bancroft, John S. (See Sellers and Bancroft.)						
Bancroft, John S., Philadelphia, Pa., assignor to William Sellers & Company, Incorporated, of Pennsylvania. Spacing mechanism	617,551	Jan. 10	1313	296, 297, 846, 847, 848, 849, 850, 851, 852	86	276
Bancroft, John S., Philadelphia, Pa., assignor to Lanston Monotype Machine Company, Washington, D. C. Type-casting and composing machine	625,998	May 30	3733	853, 854, 855, 856, 857, 858, 859, 860	87	1505
Bancroft, John S., and W. H. Wood, Philadelphia, Pa., assignors to Lanston Monotype Machine Company, Washington, D. C. Machine for perforating strips for type-machines	628,620	July 11	1245	290, 291, 292, 293, 294	88	261
Bändel, Samuel, Königshütte, Germany. Automatic railway-coupling	619,931	Feb. 21	2089	475	86	1260
Bändel, Samuel, Königshütte, Germany. Car-coupling	627,714	June 27	2805	614	87	2217
Bandsept, Albert, Brussels, Belgium. Incandescent gas-burner	621,783	Mar. 28	2316	520	86	1991
Bane, Charles F., Lafayette, Ind. Air-brake	622,750	Apr. 11	1019	237, 238	87	214
Banfield, Bertie E. (See Sanderson and Banfield.)						
Bang, Peter M., Dawson, Minn. Bag-fastener	637,068	Nov. 14	1616	349	89	1272
Bangs, Edwin D., Milwaukee, Wis. Lubricator	640,079	Dec. 26	3488	800	89	2608
Bangs, Frank D. (See Bangs, Stein and F. D.)						
Bangs, Stein and F. D., Lead, S. D. Apparatus for purifying and cooling air	639,497	Dec. 19	2417	558	89	2375
Bangs, William B., *et al.* (See Fisher, Frederick A., assignor.)						
Bank, Frederick, Cincinnati, Ohio. Holder for printing-films	634,977	Oct. 17	1839	436	89	399
Banker, George W., Keene, N. Y. Crate for demijohns, &c	619,265	Feb. 14	892	200	86	1002
Banker, James H. (See Parker, Banker, and Mudge.)						
Bankers Electric Protective Company. (See Coleman, Clyde, assignor.)						
Bankes, Charles W., Middleport, Pa. Coin-controlled vending apparatus	638,376	Dec. 5	366	76,77	89	1936
Bankhead, John H., Jr. (See Carnes, Rufus F., assignor.)						
Bankmann, Richard, and G. Gebhard, Washington, D. C. Furniture-drawer	630,314	Aug. 8	1091	238	88	952
Banks, George L., assignor to himself and A. L. Patton, Colorado Springs, Colo. Weighing attachment for trucks	630,765	Aug. 8	1943	438	88	1114
Bauks, James, administrator. (See Morris and Norrman.)						
Banks, William H., Boston, Mass. Automatic fire-extinguisher	624,611	May 9	1221	275	87	959
Bannihr, Caesar R., New York, N. Y. Paper-box machine	628,062	July 4	185	41, 42, 43	88	37
Banning, Frederick D., assignor to Skabcura Dip Company, Chicago, Ill. Extracting nicotine	620,406	Feb. 28	2925	------	86	1433
Bannister, Alfred F. (See Tellefsen, Theodore J., assignor.)						
Bannon, Bethsheba, Beaver Falls, Pa. Curtain-support	627,041	June 13	1535	335	87	1930
Banwell, James, assignor of three-fourths to C. W. Nokes and W. H. Risley, Cleveland, Ohio. Inlet for catch-basins	638,691	Dec. 12	969	215	89	2075
Banwell, James, assignor of three-fourths to C. W. Nokes and W. H. Risley, Cleveland, Ohio. Manhole for electric conduits	638,692	Dec. 12	971	216	89	2075

Alphabetical list of patentees—Continued.

Name, residence, and invention.	No.	Date.	Monthly volume. Spec.	Monthly volume. Dr'g.	Official Gazette. Vol.	Official Gazette. Page.
Banzhof, Jacob H., Christiana, Pa. Antirattler for window-sashes	636,939	Nov. 14	1372	292	89	1224
Bapty, John R., Helena, Mont. Assay-furnace	618,768	Jan. 31	3610	806, 807	86	766
Barbay, Augustus, Plaquemine, La. Apparatus for transferring sugar-cane	630,165	Aug. 1	817	177	88	884
Barber, Arthur J., Sodus, assignor to H. C. Ford and A. M. Lindsay, Rochester, N. Y. Device for holding shirt-sleeves or other like purposes	640,080	Dec. 26	3490	800	89	2609
Barber, Charles R., *et al.* (See McConnell, Louis Y., assignor.)						
Barber, Charles R., *et al.* (See Myers, Oscar M., assignor.)						
Barber, Eugene R., Valdosta, Ga. Cotton-gin	619,116	Feb. 7	605	129	86	929
Barber, Everett A., Atlantic, Mass., assignor to Standard Rivet Company, Concord, N. H. Rivet-setting machine	619,247	Feb. 7	848	186	86	978
Barber, John C., St. Paul, Minn. Car-truck	620,092	Feb. 28	2377	538, 539	86	1329
Barber, George, Philadelphia, Pa., and J. Cromie, assignors to M. A. Furbush & Son Machine Company, Camden, N. J. Rubbing mechanism for carding-machines	638,162	Nov. 28	4080	860	89	1830
Barber, George, Philadelphia, Pa., and J. Cromie, assignors to M. A. Furbush & Son Machine Company, Camden, N. J. Rubbing mechanism for carding-machines	638,163	Nov. 28	4081	861	89	1830
Barber, George H., Hartford, Conn., and C. J. Hackley, Hyde Park, Mass., assignors to American Postal Machines Company, Portland, Me. Mail-marking machine	627,677	June 27	2736	599, 600	87	2203
Barber, Maximilian T., Manchester, England. Platen printing-machine	635,737	Oct. 31	3302	761, 762	89	712
Barber, Maximilian T., Manchester, England. Platen printing-machine	637,916	Nov. 28	3598	753, 754	89	1738
Barber, Melvin, and L. F. Kramer, Oklahoma, Okla. Ter. Sash-balance	637,545	Nov. 21	2540	550	89	1467
Barber, Melvin, and L. F. Kramer, Oklahoma, Okla. Ter. Bit-stock	639,842	Dec. 26	3070	705	89	2523
Barber, Thomas W., assignor to L. P. Ford, London, England. Manufacturing artificial stone	624,900	May 16	1751	395	87	1081
Barber, William E., Hamburg, Ill. Apparatus for making racing-records	621,314	Mar. 21	1457	322, 323	86	1809
Barber, William H., Abilene, Kans. Varnish-can	629,977	Aug. 1	463	100	88	815
Barbero, John, Frontenac, Kans. Glass or bottle washer	630,843	Aug. 15	2089	473	88	1167
Barbier-Durozier, Joseph A. L., St. Marcellin, France. Wrapping-machine	632,983	Sept. 12	1452	337	88	2007
Barbier, Philippe, Lyons, France, assignor to L. Durand, Huguenin & Cie., Basle, Switzerland. Synthetic violet-oil and making same	617,552	Jan. 10	1317	------	86	276
Barbour, Charles C., Grand Rapids, Mich. Drying and heating appliance for laundries, &c.	631,061	Aug. 15	2498	565	88	1248
Barbour, Charles C., Grand Rapids, Mich. Lumber-drier	638,831	Dec. 12	1204	271	89	2121
Barbour, John E., Paterson, N. J. Winding device	619,266	Feb. 14	893	200	86	1003
Barbour, John E., Paterson, N. J. Splicing device	629,761	Aug. 1	5	2	88	722
Barbour, Thomas J., San Francisco, Cal. Combined gravity separator and conveyer	624,612	May 9	1224	275	87	960
Barbour, Thomas J., San Francisco, Cal. Pump valve mechanism	637,759	Nov. 28	3301	689	89	1675
Barcalo, Edward J., Buffalo, N. Y. Corner connection for bedstead-rails	619,117	Feb. 7	607	130	86	929
Barclay, Peter, Boston, Mass. Automatic faucet	630,315	Aug. 8	1091	238	88	952
Barclay, Robert, Jr., and A. F. Craig, Paisley, Scotland. Driving mechanism for pile-forming apparatus for looms	638,543	Dec. 5	674	141	89	1994
Barcley, Mary L., St. Louis, Mo. Corset	638,544	Dec. 5	674	141	89	1994
Bard, Lizzie J., Coatesville, Pa. Plaiter	635,459	Oct. 24	2791	638	89	600
Bardelmeier, Julius R., New Douglas, Ill. Device for attaching stay-wires in fences	620,826	Mar. 7	532	114	86	1606
Bardot, Pierre, Lyons, France. Means for lighting incandescent or other gas-burners, &c.	621,784	Mar. 28	2317	521	86	1991
Bardsley, Henry, Providence, R. I., assignor to Crompton & Knowles Loom Works, Worcester, Mass. Warp stop-motion for looms	619,856	Feb. 21	1966	446, 447	86	1237
Bardsley, Henry, assignor to Crompton & Knowles Loom Works, Providence, R. I. Shuttle-box motion for looms	626,960	June 13	1394	307	87	1902
Bardua, Daniel, Mack, Ohio. Slip-tongue attachment	634,605	Oct. 10	1178	280	89	251
Bardwell, Arthur F., Springfield, Mass. Closure for vessels	626,015	May 30	3809	866	87	1519
Bardwell, Arthur F., Springfield, assignor to Bardwell Votometer Company, Boston, Mass. Registering-machine	640,164	Dec. 26	3633	836, 837	89	2639
Bardwell Votometer Company. (See Bardwell, Arthur F., assignor.)						
Barell, Emil, assignor to F. Hoffmann-La Roche & Co., Basle, Switzerland. Manufacturing para-guaiacol sulfonic acid	623,760	Apr. 25	2844	------	87	602
Barg, Bruno, Berlin, assignor of one-half to G. Henze, Charlottenburg, Germany. Incandescent gas-burner	634,863	Oct. 17	1639	383	89	359
Bargamin, Clifford, Newport News, Va. Automatic cut-off for gas or vapor burners	617,271	Jan. 3	778	181, 182	86	153
Bargamin, Clifford, assignor to Newport News Manufacturing Company, Newport News, Va. Automatic cut-off attachment for gas-stoves	636,102	Oct. 31	4084	923	89	855
Barger, Lucas, assignor to himself and J. Coors, New York, N. Y. Means for sealing bottles	625,533	May 23	2859	651	87	1317
Barger, Lucas, assignor to himself and W. H. Van Tassel, New York, N. Y. Venting-faucet	629,327	July 25	2557	594	88	552
Bargigli, Anatole, Paris, France. Apparatus for the amalgamation of gold or other ores	635,119	Oct. 17	2122	496, 497	89	454
Barker, Clarence I. J., David City, Nebr. Display-case	618,160	Jan. 24	2514	558	86	541
Barker, Erastus B., Newark, N. J., assignor to E. & H. T. Anthony & Company, New York, N. Y. Roll-holding camera	618,930	Feb. 7	217	48	86	847
Barker, George L., Waltham, Mass. Pocket cash-register	618,320	Jan. 24	2786	618	86	592
Barker, Gerald, London, England. Elevated or girder railway or tramway	639,498	Dec. 19	2418	558	89	2375
Barker, James, assignor to Richmond & Bachus Company, Detroit, Mich. Transfer-ledger	623,349	Apr. 18	2135	491	87	446
Barker, John, San Francisco, Cal. Bureau and dresser trunk	630,438	Aug. 8	1375	308	88	1004
Barker, John F., assignor to Gilbert & Barker Manufacturing Company, Springfield, Mass. Gas-burner	628,063	July 4	193	43	88	39
Barker, John F., assignor to Gilbert & Barker Manufacturing Company, Springfield, Mass. Gas-burner	628,064	July 4	193	43	88	39
Barker, John F., assignor to Gilbert & Barker Manufacturing Company, Springfield, Mass. Gas-burner	628,065	July 4	194	44	88	39
Barker, John F., assignor to Gilbert & Barker Manufacturing Company, Springfield, Mass. Gas-burner	637,441	Nov. 21	2347	507	89	1430
Barker, Ruben F. (See Corry and Barker.) (Reissue.)						
Barker, Ruben F., Marinette, assignor of one-half to M. Corry, Menekaune, Wis. Sawmill set-works	633,498	Sept. 19	2436	574	88	2211
Barkley, Charles W., Seward, Nebr. Method of and apparatus for type-writer instruction	623,966	May 2	8	1	87	704
Barkley, Richard W., New York, N. Y. Conduit electric railway	617,708	Jan. 17	1609	362	86	351
Barkley, Richard W., New York, N. Y. Electric railway	633,558	Sept. 26	2547	598, 599	88	2247
Barlach, Ernst, Rendsburg, Germany. Penholder and pencil-point protector	639,499	Dec. 19	2419	558	89	2376

Alphabetical list of patentees—Continued.

Name, residence, and invention.	No.	Date.	Monthly volume. Spec.	Monthly volume. Dr'g.	Official Gazette. Vol.	Official Gazette. Page.
Barler, Augustus C., Chicago, Ill. Document-file	618,821	Feb. 7	5	1,2	86	803
Barling, Elliott D., Pontiac, Mich. Stovepipe-fastener	626,663	June 13	805	184	87	1789
Barlow, Charles A. (See Pattison, Thomas, assignor.)						
Barlow, Howard E. (See McAllister and Barlow.)						
Barlow, Howard E., *et al.* (See Erikson, John, assignor.)						
Barlow, John H., New Haven, Conn. Cartridge-loading machine	629,120	July 18	2192	509	88	465
Barlow, Richard A. (See King, William S., assignor.)						
Barltrop, Walter P., Loudon, England. Acetylene-lamp	622,751	Apr. 11	1021	238	87	214
Barna, Joseph W., Chicago, Ill. Shoe-fastener	636,940	Nov. 14	1372	292	89	1224
Barnard, Charles A. (See Ewart, Philo C., assignor.)						
Barnard, David C., Binghamton, N. Y. Washing-machine	629,024	July 18	2010	468	88	428
Barnard, George A., New York, N. Y. Liquid-cooling apparatus	617,218	Jan. 3	677	156	86	132
Barnard, Harold L., J. J. Hicks, and L. E. Hill, London, England. Sphygmometer	618,049	Jan. 24	2267	505, 506	86	495
Barnard & Leas Manufacturing Company. (See Cornwall, John B., assignor.)						
Barnard William, Buffalo, N. Y. Water-tower and extension-ladder	635,639	Oct. 24	3109	714	89	661
Barnard, William J. (See Baldwin, Ada S., assignor.)						
Barndollar, Samuel L., Allegheny, Pa. Washboard	626,044	May 30	3868	877	87	1528
Barnes, Albert, London, England. Means for applying silvering or gilding solutions to glass, porcelain, &c	625,733	May 30	3215	731	87	1405
Barnes, Almond W. (See Tanner, Albert C., assignor.)						
Barnes, Charles O., assignor of one-fourth to E. A. Jones, Buffalo, N. Y. Back-pedaling brake	626,850	June 13	1175	262	87	1859
Barnes, David L., Chicago, Ill., and W. P. Henszey, Philadelphia, Pa. Mine-locomotive	633,064	Sept. 12	1588	369, 370	88	2035
Barnes, Edward A., Fort Wayne, Ind. Pedal	622,034	Mar. 28	2788	628	86	2082
Barnes, Frank. (See Steward, John F., assignor.)						
Barnes, Gaylord V., St. Paul, Minn. Thill-coupling	618,931	Feb. 7	219	48	86	847
Barnes, George, assignor to W. W. Cabena, Albert Park, near Melbourne, Victoria. Fastener for shoes or other articles of wearing-apparel	620,532	Feb. 28	3132	717, 718	86	1473
Barnes, George, Albert Park, assignor of one-half to A. S. Bloomfield, Melbourne, Victoria. Sash-balance	639,500	Dec. 19	2420	558	89	2376
Barnes, Henry H., Jr. (See Knappenberger and Barnes.)						
Barnes, Henry J., Exeter, Ill. Pruning-shears	638,311	Dec. 5	236	49	89	1911
Barnes, James B., Ferrysburg, Mich. Oil-can	638,678	Dec. 5	938	209	89	2050
Barnes, John S., assignor to Barnes Novelty Company, Detroit, Mich. Tape-measure	618,050	Jan. 24	2268	506	86	496
Barnes, John W., assignor to W. A. Cooper and W. W. Ruhl, Mount Gilead, Ohio. Butter-package	623,116	Apr. 11	1700	393	87	344
Barnes, Joseph C., Summit, Miss. Tension device for fence-wires	624,730	May 9	1425	320	87	1000
Barnes, N. A., *et al.* (See Pearce, William, assignor.)						
Barnes, Nathan M., Minneapolis, Minn. Bicycle	619,118	Feb. 7	608	130	86	929
Barnes Novelty Company. (See Barnes, John S., assignor.)						
Barnes, Richard W., Danville, Ohio. Machine for tarring noses of animals	624,731	May 9	1425	320, 321	87	1000
Barnes, William C., Melbourne, Fla. Lock for printers' galleys	625,238	May 16	2336	532	87	1191
Barnes, William F., Waldron, Mich. Medicine-case	620,013	Feb. 21	2235	507	86	1287
Barnes, William F., Waldron, Mich. Medicine-case	638,619	Dec. 5	816	176	89	2022
Barnes, William W., Harrington, England. Heating-furnace	618,218	Jan. 24	2605	576, 577	86	557
Barnett, Everard S., assignor of one-half to E. D. Beatty, Washington Court-House, Ohio. Bicycle-rack	623,967	May 2	9	2	87	704
Barnett, John A. (See Shearer, Edward B., assignor.)						
Barnett, John M., Lynn, Mass. Last	620,827	Mar. 7	533	114	86	1666
Barnett, Jones, and Z. K. Justice, Hendersonville, N. C. Cash-drawer	621,015	Mar. 14	908	197	86	1689
Barnett, Oliver P., Allerton, Iowa. Mold for cement or concrete work	628,382	July 4	808	187, 188	88	155
Barnett, Ottaway, Roanoke, Va. Saw-horse	639,501	Dec. 19	2421	559	89	2376
Barnett & Record Company. (See McQueen, Finlay R., assignor.)						
Barnett, Samuel T. (See Welch, Michael I., assignor.)						
Barney, Everett H., Springfield, Mass. Clamp-fastening device for skates	618,321	Jan. 24	2788	618	86	592
Barney, Everett H., Springfield, Mass. Skate-fastening	622,908	Apr. 11	1308	301	87	267
Barney, Everett H., Springfield, Mass. Skate	624,732	May 9	1428	321	87	1000
Barney, Nathan, assignor of one-half to T. M. Davis, New York, N. Y. Dumping-car	622,909	Apr. 11	1309	301	87	267
Barney & Smith Car Company. (See Kirby, John, Jr., assignor.)						
Barney & Smith Car Company. (See Tesseyman, Henry, assignor.)						
Barngrover, Harvey M. (See Cunningham and Barngrover.)						
Barnhart Brothers & Spindler. (See Murray, Charles R., assignor.)						
Barnhart, Cornelius, Walker Valley, N. Y. Heater	620,212	Feb. 28	2598	590, 591	86	1369
Barnhart, Elbert H., Udall, Kans. Insect-trap	621,016	Mar. 14	909	197	86	1690
Barnhart, Frank, Warren, Pa. Regulating attachment for mantle-burners	632,088	Aug. 29	4365	982	88	1642
Barnhart, George, *et al.* (See Hood, Hiram Q., assignor.)						
Barnhart, John E., and E. D. Middleton, assignors of one-half to T. J. McTighe, Pittsburg, Pa. Switch-operating device	635,460	Oct. 24	2792	638	89	600
Barnikel, Peter, New York, N. Y. Time apparatus for extinguishing gas	624,733	May 9	1429	321	87	1001
Barnish, Oliver, Jr., assignor of one-half to O. H. Humphrey, Waltham, Mass. Steering-fork for cycles	623,507	Apr. 25	2412	553	87	521
Barns, Dow S. (See Stanley, George C., assignor.)						
Barns, Ebenezer A., assignor to E. B. Drake, St. Paul, Minn. Combined truck and carrier	639,338	Dec. 19	2121	488	89	2316
Barnum, Christine M., New York, N. Y. Attachment for corsets	622,437	Apr. 4	427	99	87	79
Barnum, William H., assignor of one-half to H. F. Clark, Danbury, Conn. Device for fitting and cutting sweat-bands for hats	631,978	Aug. 29	4159	935	88	1601
Barnum, William T., New Haven, Conn. Spirometer	620,633	Mar. 7	156	32	86	1532
Barnum, William T., New Haven, Conn. Electrotype	622,939	Apr. 11	1363	313	87	278
Baron, Alfred L. (See Bitner, Harry, assignor.)						
Baron, Alfred L. (See Lloyd, Marshall B., assignor.)						
Baron, Julius. (See Cory, Randolph P., assignor.)						
Barr, Addison, assignor of one-half to W. Mann, M. Aldridge, and P. Moore, Martin's Ferry, Ohio. Nut and bolt lock	628,297	July 4	656	153	88	127
Barr, Allan A., Arlington, N. J. Sash-fastener	638,492	Dec. 5	588	121	89	1978
Barr Cash and Package Carrier Company. (See Weaver, Henry M., assignor.)						
Barr, Frank P. (See Keeler and Barr.)						
Barr, Jacob N., Milwaukee, Wis. Contractile chill	619,926	Feb. 21	2081	471, 472, 473	86	1258
Barr, Jacob N., Milwaukee, Wis. Car-door	631,496	Aug. 22	3285	747	88	1421

Alphabetical list of patentees—Continued.

Name, residence, and invention.	No.	Date.	Monthly volume.		Official Gazette.	
			Spec.	Dr'g.	Vol.	Page.
Barr, John H., Ithaca, N. Y. Worm-gearing	624,734	May 9	1431	322	87	1001
Barr, Mark. (See Nadall and Barr.)						
Barr, Mary L., Indianapolis, Ind. Baby-carriage	617,800	Jan. 17	1807	404	86	391
Barr, Thomas E., Kalamazoo, Mich. Window-screen and controlling apparatus	618,822	Feb. 7	7	2	86	804
Barr, Thomas E., Kalamazoo, Mich. Roller window-screen	618,823	Feb. 7	10	2, 3	86	805
Barr, Thomas E., Kalamazoo, Mich. Roller window-screeu for car-windows	618,824	Feb. 7	12	3	86	805
Barr, Thomas E., Kalamazoo, Mich. Insect-excluder for window-sashes	618,825	Feb. 7	14	3	86	806
Barr, Thomas E., Kalamazoo, Mich. Roller window-screen	618,826	Feb. 7	15	3	86	806
Barr, Thomas E., Kalamazoo, Mich. Roller window-screen	618,827	Feb. 7	17	4	86	807
Barr, Thomas E., Kalamazoo, Mich. Window-screen	618,828	Feb. 7	20	4	86	807
Barr, Thomas E., Kalamazoo, Mich. Window-screen	618,829	Feb. 7	21	4	86	807
Barr, Thomas E., Kalamazoo, Mich. Window-screen	618,830	Feb. 7	22	5	86	808
Barr, Thomas E., Kalamazoo, Mich. Window-screen	618,831	Feb. 7	24	5	86	808
Barr, William C., Jersey City, N. J. Motor-vehicle truck	618,244	Jan. 24	2655	587, 588	86	567
Barratt, Frederick W., Wimborne, England. Brush	630,844	Aug. 15	2090	473	88	1167
Barratt, Martin M., Rhinelander, Wis. Adjustable barrel-cover	627,317	June 20	2038	448	87	2050
Barrell, William L., Lawrence, Mass. Drier-felt for paper-machines	636,482	Nov. 7	432	96	89	1008
Barret, George G., Paterson, N. J. Manufacture of jaws for jaw-rods or jaw-bolts	635,288	Oct. 24	2422	565	89	528
Barrett, Charles E., and J. H. Horne, assignors to J. H. Horne & Sons Company, Lawrence, Mass. Paper-making machine	634,228	Oct. 3	472	120	89	96
Barrett, Frederic W. (See Pennycuick and Barrett.)						
Barrett, Glenn J. (See Fox and Barrett.)						
Barrett, James M., Bloomfield, N. J. Necktie-holder	617,709	Jan. 17	1614	363	86	353
Barrett, John A., Summit, N. J., assignor to American Telephone and Telegraph Company, of New York. Selective electric signal	626,131	May 30	4049	924, 925	87	1560
Barrett, John A., Summit, N. J., assignor to American Telephone and Telegraph Company, of New York. Selective privacy-switch for multiple-station telephone-lines	626,132	May 30	4057	925	87	1562
Barrett, John A., Summit, N. J., assignor to American Telephone and Telegraph Company, New York, N. Y. Electrical and selective signaling	637,846	Nov. 28	3459	723	89	1709
Barrett, M. K. (See Tong, George F., assignor.)						
Barrett, Patrick M., assignor of one-third to M. Cleary, St. Louis, Mo. Hoisting and conveying apparatus	623,065	Apr. 11	1574	363, 364	87	321
Barrett, Thomas. (See Towns and Barrett.)						
Barrett, Wesley J., Marion, N. Y. Puzzle	624,158	May 2	408	83	87	778
Barrett, William F., assignor to Empire Engine and Motor Company, Orangeburg, N. Y. Power-driven tool	630,439	Aug. 8	1377	308	88	1005
Barrett, William P. (See O'Brien and McKay, assignors.)						
Barrie, Robert, Philadelphia, Pa. Water-filter	629,310	July 18	2521	587	88	525
Barrie, Robert, Philadelphia, Pa. Valve mechanism for motors, meters, &c	630,643	Aug. 8	1752	393	88	1077
Barrier, Mike G., Watterson, Tex. Painting-machine	617,982	Jan. 17	2131	477	86	455
Barron, Hugh J., New York, N. Y. Apparatus for regenerating exhaust-steam	619,119	Feb. 7	609	130, 131	86	930
Barron, Hugh J., New York, N. Y. Apparatus for regenerating exhaust-steam	619,120	Feb. 7	613	131	86	931
Barron, O. E. D. (See Stone, Thomas W., assignor.)						
Barron, Walter J., New York, assignor to Densmore Typewriter Company, Syracuse, N. Y. Type-writing machine	619,711	Feb. 21	1684	385, 386	86	1182
Barron, Walter J., New York, assignor to Densmore Typewriter Company, Syracuse, N. Y. Type-writing machine	623,232	Apr. 18	1916	440	87	402
Barron, Walter J., New York, assignor to Densmore Typewriter Company, Syracuse, N. Y. Type-writing machine	627,678	June 27	2739	600	87	2204
Barron, Walter J., New York, N. Y., assignor to Union Typewriter Company, Jersey City, N. J. Type-writing machine	636,941	Nov. 14	1375	293	89	1224
Barrow, Thomas E., assignor of one-half to L. J. McCray, Mansfield, and H. L. McCray, Ashland, Ohio. Automobile torpedo	632,089	Aug. 29	4367	982	88	1642
Barrows, Charles H., New York, N. Y. Vehicle	626,587	June 6	663	153	87	1743
Barrows, George S., Philadelphia, Pa., assignor to Welsbach Light Company, Gloucester City, N. J. Apparatus for trimming Welsbach or other incandescent mantles	628,595	July 11	1207	282, 283	88	253
Barrows, Walter A., Chicago, Ill. Acetylene-gas-generating lamp	617,710	Jan. 17	1615	363	86	353
Barry, Albert T., assignor to J. F. Barry, Sr., Opal, Wyo. Wagon-reach	631,979	Aug. 29	4161	935	88	1601
Barry, Edward J., Hartford, Conn. Butter print and cutter	635,289	Oct. 24	2423	565	89	529
Barry, Henry F., *et al.* (See Ryan, Edward J., assignor.)						
Barry, James F., Sr. (See Barry, Albert T., assignor.)						
Barry, Richard V., Stuart, Iowa. Automatic corn-planter	620,876	Mar. 14	634	139	86	1639
Bartel, John, Indianapolis, Ind. Hat-holder for milliners' use	639,958	Dec. 26	3274	749	89	2565
Bartel, Rudolph F., Bayonne, N. J. Detachable or open chain-link	627,892	June 27	3118	683	87	2278
Bartel, William P., assignor of three-fourths to Judson L. Thomson Manufacturing Company, Waltham, Mass. Riveting-machine	636,103	Oct. 31	4036	924	89	855
Barten, William H., Allen, S. D. Ink-well case	634,795	Oct. 10	1507	354	89	316
Barth, Ernest F. New Albany, Ind. Railway-switch	632,622	Sept. 5	742	170	88	1853
Barth, Melville F., Indianapolis, Ind. Hand-shield	632,547	Sept. 5	635	148	88	1832
Barth, Moritz, Berlin, Germany. Collapsible ladder	627,610	June 27	2626	577	87	2182
Barth, Otto. (See Deiters, Harry A., assignor.)						
Barth, Peter. (See Barth, William, assignor.)						
Barth, William, assignor of one-half to P. Barth, Gillett, Colo. Machine for shearing railway-ties	620,533	Feb. 28	3134	718, 719	86	1473
Barth, William L. (See Kinney, Richard R., assignor.)						
Barthelemy, Aristide L. (See Barthelemy, Louis J. and A. L.)						
Barthelemy, Louis J. and A. L., New Orleans, La. Filter apparatus	618,322	Jan. 24	2789	618, 619	86	592
Barthels, Emil. (See Pfister and Barthels.)						
Barthels, Emil, *et al.* (See Navarein, Amedée, assignor.) (Reissue.)						
Barthels, Friedrich W., Hamburg, Germany. Collar for pipes or tubes	639,010	Dec. 12	1529	350	89	2184
Barthez, Alfred H., Hamma-Algiers, Algeria. Apparatus for producing acetylene gas	617,518	Jan. 10	1245	284	86	262
Bartholomew Company. (See Stutsman, Reuben O., assignor.)						
Bartholomew, Ellis, Lima, Ohio. Air-brake	629,708	July 25	3253	757, 758, 759, 760	88	688
Bartholomew, John B., Peoria, Ill. Pneumatic stacker	633,561	Sept. 26	2567	602, 603	88	2252
Bartholomew, John B., Peoria, Ill. Belt-winder for threshing-machines	637,760	Nov. 28	3303	690	89	1675
Bartholomew, John B., assignor to Avery & Rouse Steam Thresher Company, Peoria, Ill. Pneumatic stacker	633,559	Sept. 26	2554	600, 601	88	2248
Bartholomew, John B., assignor to Avery & Rouse Steam Thresher Company, Peoria, Ill. Straw-stacker	633,560	Sept. 26	2561	601, 602	88	2251

Alphabetical list of patentees—Continued.

Name, residence, and invention.	No.	Date.	Monthly volume.		Official Gazette.	
			Spec.	Dr'g.	Vol.	Page.
Bartholomew, William S., and P. G. Emery, Chicago, Ill., assignors to Adams & Westlake Company, of Illinois. Window-curtain	624,735	May 9	1432	322, 323	87	1001
Bartlett, Albert J., Corydon, Ind., assignor of one-half to F. E. Batteiger, Greenville, Pa. Cheese-cutter	622,196	Apr. 4	2	1	87	3
Bartlett, Alice M., Lowell, Mass. Sanitary hammock	633,111	Sept. 19	1718	403	88	2071
Bartlett, Alice M., Lowell, Mass. Attachment for cribs	633,112	Sept. 19	1719	403	88	2072
Bartlett, Andrew J., P. Jacobus, Romulus, and S. W. Stamm, Lima, N. Y.; said Jacobus and Stamm assignors to said Bartlett. Harvester-reel	619,531	Feb. 14	1342	308, 309	86	1092
Bartlett, Charles O. (See Greeley and Bartlett.)						
Bartlett & Co., C. O. (See Grill, Levi, assignor.)						
Bartlett, Frank, Osawatomie, Kans. Bicycle driving-gear	632,623	Sept. 5	744	170	88	1853
Bartlett, Frank D., Somerville, Mass. Self-closing hose-nozzle	623,128	Apr. 18	1726	399	87	364
Bartlett, Frank L., Canyon, Colo. Ore-concentrating table	621,515	Mar. 21	1810	402	86	1876
Bartlett, Frank L., Canyon, Colo. Ore-concentrating table. (Reissue)	11,756	July 4	914	213, 214	88	176
Bartlett, Frederick G., Bristol, England. Burner and pilot-light for incandescent gas-lighting	619,121	Feb. 7	616	131	86	931
Bartlett, George F., and G. A. Overstrom, Parrot, Mont. Belt conveyer and distributer	619,463	Feb. 14	1328	279, 280	86	1069
Bartlett, Grace, Jamestowu, N. Y. Paper box	637,697	Nov. 21	3191	662	89	1635
Bartlett, John W., Moline, Ill. Double check-row cotton and corn planter	631,921	Aug. 29	4057	910, 911	88	1581
Bartlett, Sylvester P. (See Frost, Sylvester P., assignor.)						
Bartliff, Charles A., assignor to Star Bucket Pump Company, St. Louis, Mo. Pump-curb	617,219	Jan. 3	679	157	86	132
Bartliff, Charles A., assignor to Star Bucket Pump Company, St Louis, Mo. Pump-curb reservoir	619,712	Feb. 21	1688	386	86	1182
Barto, Frank, New York, N. Y. Bicycle-coupling	618,769	Jan. 31	3611	807	86	766
Barton, Abner W., East Hampton, Conn. Bicycle-bell	617,220	Jan. 3	680	157, 158	86	133
Barton, Albert E. (See Shook, Barton, Shannon, Dunn, and Ramsay.)						
Barton, Arthur T. (See Barton, William W. and A. T.)						
Barton, Edward H., assignor of one-half to S. W. Everhart, Sturgis, Mich. Pump-rod connection	636,616	Nov. 7	686	149	89	1060
Barton, George V. (See Pope and Barton.)						
Barton, Henry, Charleston, W. Va. Steam-boiler and furnace	632,624	Sept. 5	745	170, 171	88	1854
Barton, Robert W., Marion, Ark. Surgical splint	620,556	Feb. 28	3200	733	86	1486
Barton, William W. and A. T., London, England. Machine for clipping horses, shearing sheep, &c	624,736	May 9	1434	323	87	1002
Bartzen, Clement, *et al.* (See Pratt, Frederick A., assignor.)						
Barus, Carl, Washington, D. C., assignor of one-half to A. Lieber, Indianapolis, Ind. Carbonating apparatus	622,410	Apr. 4	377	86, 87	87	70
Basch, David, New York, N. Y. Toe-clip	639,883	Dec. 26	3123	718	89	2533
Bascom, Frederick H., Las Cruces, N. Mex. Ter. Machine for measuring and cutting goods from rolls	635,087	Oct. 17	2047	482, 483	89	441
Baseman, Ernest, assignor to Bickford & Huffman Company, Macedon, N.Y. Grain-drill	626,822	June 13	1109	249	87	1846
Basener, Anselm, assignor to Griffin Wheel Company, Chicago, Ill. Chiller-grinder	639,701	Dec. 26	2802	646	89	2469
Baskin, Edwin T. (See Baskin, James and E. T.)						
Baskin, James and E. T., Malta Bend, Mo. Harrow	626,133	May 30	4062	926	87	1563
Basle Chemical Works. (See Brack, Johann J., assignor.)						
Basley, George W., *et al.* (See Murphy, David, assignor.)						
Bass, Frederick. (See Gray and Bass.)						
Bass, George, New York, N. Y. Mold for manufacturing tiles, &c	635,952	Oct. 31	3711	857	89	790
Bass, Henry, and J. M. Welch, Oshkosh, Wis. Tablet-machine	625,636	May 23	3044	693	87	1354
Bassett, Charles A., assignor of one-half to J. H. Richards, Elmira, N. Y. Portable hoisting-machine	629,737	July 25	3312	773, 774	88	700
Bassett, Charles F. (See Dement and Bassett.)						
Bassett, Charles F., New York, N. Y. Bottle-filling machine	620,877	Mar. 14	635	139	86	1639
Bassett, George B., Buffalo, N. Y. Water-meter	617,946	Jan. 17	2073	465	86	444
Bassett, George B., Buffalo, N. Y. Registering device	618,636	Jan. 31	3378	752	86	719
Bassett, George B., Buffalo, N. Y. Water-meter	626,518	June 6	550	127	87	1720
Bassett, George B., Buffalo, N. Y. Water-meter	626,519	June 6	551	127	87	1720
Bassett, George B., Buffalo, N. Y. Water-meter	626,647	June 6	773	176	87	1764
Bassett, George B., Buffalo, N. Y. Water-meter	627,088	June 20	1622	355	87	1966
Bassett, George P., Jr., Cincinnati, Ohio. Socket-iron for casting pipe	629,538	July 25	2961	690	88	632
Bassett, Henry, Salem, N. J. Cow-hopple	620,634	Mar. 7	157	32	86	1532
Bassler, Henry R., Indianapolis, Ind. Pneumatic sprayer	618,531	Jan. 31	3196	707	86	684
Bast, Mathew, Canton, Ohio. Foot-rail bracket	626,214	June 6	2	1	87	1615
Bastam, Alaxander, assignor of one-half to E. G. Krekel, Milwaukee, Wis. Street-sprinkler	630,766	Aug. 8	1945	438	88	1114
Bastian, August, Milwaukee, Wis. Washline-pulley	621,989	Mar. 28	2716	613	86	2067
Bastian, Charles O., London, England. Prepayment electrical meter	626,134	May 30	4063	126, 127	87	1563
Bastian, Charles O., London, England. Electrolytic meter	626,135	May 30	4066	927, 928	87	1564
Bastow, Henry, Indiana, Pa. Glass-molding machine	620,828	Mar. 7	534	115	86	1607
Batchelder, James H., Tama, Iowa. Egg-case machine	619,267	Feb. 14	895	201, 202	86	1003
Batcheller, Birney C., Philadelphia, Pa. Pneumatic transmission system	623,968	May 2	10	2	87	704
Batcheller, Birney C., Philadelphia, Pa. Pneumatic transmission system	623,969	May 2	14	2, 3, 4	87	705
Batcheller, Birney C., Philadelphia, Pa. Pneumatic-despatch apparatus	623,970	May 2	21	4, 5, 6	87	706
Batcheller, Birney C., Philadelphia, Pa. Pneumatic-despatch apparatus	623,971	May 2	28	6	87	707
Batcheller, Birney C., Philadelphia, Pa. Carrier for pneumatic-despatch apparatus	623,972	May 2	30	6	87	707
Batcheller, Birney C., Philadelphia, Pa. Carrier-receiving mechanism for pneumatic transit tubes	623,973	May 2	31	7	87	708
Batcheller, Birney C., Philadelphia, Pa. Pneumatic-despatch system	632,690	Sept. 12	922	215	88	1903
Batcheller, Birney C., and R. Gundlach, Philadelphia, Pa.; said Gundlach assignor to said Batcheller. Apparatus for unifying sectional curvature of tubes	620,213	Feb. 28	2601	591	86	1370
Batcheller, George C. (See Brown, Samuel P., assignor.)						
Batchelor, Joseph F., New York, N. Y. Valve	631,146	Aug. 15	2643	598, 599	88	1275
Batchelor, Joseph F., New York, N. Y., assignor to E. J. Boyden, Newark, N. J. Valve	620,829	Mar. 7	537	115	86	1607
Batchelor, Joseph F., New York, N. Y., assignor to E. J. Boyden, Newark, N. J. Valve-controlling device	624,890	May 9	1730	391	87	1059
Batchelor, Joseph F., New York, N. Y., assignor to E. J. Boyden, Newark, N. J. Sound-deflector	630,166	Aug. 1	819	177	88	884

Alphabetical list of patentees—Continued.

Name, residence, and invention.	No.	Date.	Monthly volume. Spec.	Monthly volume. Dr'g.	Official Gazette. Vol.	Official Gazette. Page.
Batchelor, Joseph F., New York, N. Y., assignor to E. J. Boyden, Newark, N. J. Valve-actuating device	633,415	Sept. 19	2308	542	88	2187
Batchelor, Prentiss J., St. Louis, Mo. Overshoe	638,164	Nov. 28	4082	861	89	1830
Batdorf, Charles S., New York, assignor to J. W. Eaton, trustee, West Islip, N. Y. Pneumatic self-playing instrument	635,416	Oct. 24	2705	619, 620, 621	89	582
Bate, Frederic G. (See Sargent, Henry, assignor.)						
Bate, Henry, Wolverhampton, England. Time-regulator for photographic shutters	630,644	Aug. 8	1753	393, 394	88	1077
Bately, Lilly. (See Bately, Stephen S., assignor.)						
Bately, Stephen S., assignor to L. Bately, Mitchell, S. D. Compound for removing taint of onions or weeds from butter	624,891	May 9	1732	------	87	1059
Bateman, Frank, Grenloch, N. J., assignor to Bateman Manufacturing Company, of New Jersey. Seed-drill	627,964	July 4	4	1,2	88	3
Bateman, Frank, Grenloch, N. J., assignor to Bateman Manufacturing Company, of New Jersey. Horse hoe and cultivator	627,965	July 4	8	2,3	88	4
Bateman, Harry E., Pittsburg, Pa. Mileage-book	619,532	Feb. 14	1344	309	86	1092
Bateman, John W., Indianapolis, Ind. Caster	632,774	Sept. 12	1077	249	88	1935
Bateman Manufacturing Company. (See Bateman, Frank, assignor.)						
Bateman, Talbot O., Fort Worth, Tex. Acetylene-gas generator	629,485	July 25	2862	665	88	612
Bateman, Walter W., Toledo, Ohio. Toilet vaporizing apparatus	636,744	Nov. 14	991	211	89	1149
Bates, Adelmer M., Chicago, Ill. Sack, bag, &c	623,198	Apr. 18	1860	426	87	390
Bates, Adelmer M., Chicago, Ill. Sack, bag, or other flexible receptacle	623,199	Apr. 18	1862	426	87	390
Bates, Albert J., Joliet, assignor to American Steel and Wire Company, Chicago, Ill. Wire fence	623,129	Apr. 18	1727	399	87	364
Bates, Alonzo L., assignor to A. W. Williams, Leominster, Mass., and G. L. Winn, Jersey City, N. J. Hair-fastener	628,596	July 11	1209	283	88	253
Bates, Edward C., Boston, Mass. Annunciator for street-cars	627,171	June 20	1767	387	87	1995
Bates, Francis A., Swarthmore, assignor to Morse, Williams & Company, Incorporated, Philadelphia, Pa. Elevator-guide	622,792	Apr. 11	1091	253	87	226
Bates, Francis C., assignor of one-half to W. G. Hawley, San José, Cal. Postal-box signal	627,635	June 27	2673	586	87	2191
Bates, Francis G., Philadelphia, Pa. Rotary engine	617,072	Jan. 3	411	100, 101	86	80
Bates, Frederick W., Minneapolis, Minn. Medicine-label	630,822	Aug. 8	2049	462	88	1137
Bates, George A., New York, N. Y., assignor to Mergenthaler Linotype Company, of New York. Mold for linotype-machines	618,554	Jan. 31	3241	719, 720	86	693
Bates, George A., New York, N. Y., assignor to Mergenthaler Linotype Company, of New York. Linotype and mold therefor	635,640	Oct. 24	3110	715	89	662
Bates, Gustave B. (See Gay, Elmer I., assignor.)						
Bates, Henry A., Yonkers, N. Y. Shuttle for sewing-machines	636,617	Nov. 7	687	149	89	1061
Bates, Lindon W., Chicago, Ill. Dredging machinery	634,864	Oct. 17	1640	383, 384, 385	89	359
Bates, Lindon W., Chicago, Ill. Dredge	634,865	Oct. 17	1642	385, 386, 387	89	360
Bates, Marcus W. (See Hopkins, Albert N. and F. P., assignors.)						
Bates, Thomas H. (See Ford and Starr, assignors.)						
Bates, William C., Riverton, Nebr. Roof	632,691	Sept. 12	924	215	88	1904
Batman, John J., Sunbury, Pa. Dredging-machine	620,635	Mar. 7	158	33	86	1533
Batson, Matthew A., and C. G. Sawtelle, Jr., New York, N. Y. Grade-delineator	616,878	Jan. 3	10	3	86	4
Batt, Charles F., New York, N. Y. Cartridge-belt	621,763	Mar. 21	2273	512	86	1968
Batt, William M., Fall River, Mass. Temporary binder	631,771	Aug. 29	3807	848	88	1533
Batteiger, F. E. (See Bartlett, Albert J., assignor.)						
Batten, John, and E. F. Maul, Fairton, N. J. Bicycle-support and tire-cleaner	632,800	Sept. 12	1131	261	88	1947
Battenfield, Joseph H., Russellville, Ark. Thill-coupling	619,122	Feb. 7	618	132	86	932
Battersby, James, assignor of one-half to B. W. Fleisher, Philadelphia, Pa. Spindle	619,008	Feb. 7	407	85	86	889
Bauder, David B., Abrams, Wis. Weather-strip for window-sashes	619,657	Feb. 14	1569	357	86	1133
Bauer, August F. (See May, Victor, assignor.)						
Bauer, August F. (See Tower and Bauer.)						
Bauer, Herman E., Marshfield, Wis. Cushioned horseshoe	620,878	Mar. 14	636	139	86	1640
Bauer, Jacob, Chicago, Ill. Adjustable book-holder	632,037	Aug. 29	4269	960	88	1623
Bauer, Valentin, Höchst-on-the-Main, Germany. Bronzing apparatus	630,440	Aug. 8	1379	309	88	1005
Bauer, William, Ruggles, Ohio. Clover or flax attachment for self-binders	617,073	Jan. 3	413	101	86	80
Baugh, Frederick B., Brighton, Mich. Crate	633,279	Sept. 19	2039	479	88	2135
Baughman, William J. (See Smith and Baughman.)						
Baughman, William J., *et al.* (See Wells, Albert E., assignor.)						
Baulieu, William J., Bridgeport, Conn. Gas-purifier	629,739	July 25	3317	774	88	700
Baulieu, William J., assignor of one-half to J. D. Carpenter, Bridgeport, Conn. Acetylene-gas generator	629,738	July 25	3314	774	88	700
Baum, Joseph S., St. Louis, assignor of one-tenth to J. Franklin, Kirkwood, Mo. Polishing or abrading device	631,690	Aug. 22	3631	818	88	1491
Baum, Karl, Mannheim, Germany. Apparatus for impregnating meat	631,886	Aug. 29	3998	894	88	1571
Baum, Otto F., Memphis, Tenn. Trap	639,339	Dec. 19	2122	489	89	2317
Baum, Rosa. (See Gatrell, Ottmar A., assignor.)						
Baumann, Charles, Philadelphia, Pa. Sewing-machine trimmer	618,977	Feb. 7	359	73	86	879
Baumann, Eugen, Freiburg, assignor to Farbenfabriken, vormals Fr. Bayer & Co., Elberfeld, Germany. Thyroid extract and making same	626,648	June 6	774	------	87	1764
Baumann, Francis. (See Kurz, Jacob, assignor.)						
Baumann Gebrüder, Firma Joh. Baumann's Wwe. (See Weidner, Johann, assignor.)						
Baumann, George, assignor of one-half to H. D. Troeger, Chicago, Ill. Boiler	618,770	Jan. 31	3614	807, 808	86	766
Baumann, John. (See Schlegel, Robert, assignor.)						
Baumann, John D., assignor of one-half to M. J. and A. G. Ebert, Denver, Colo. Apparatus for perforating checks	631,266	Aug. 15	2865	647	88	1321
Baumann, Louis A., Wheeling, W. Va. Floor-dresser	619,464	Feb. 14	1230	280	86	1069
Baumann, Robert, St. Louis, Mo. Automatic electric switch	621,739	Mar. 21	2223	501	86	1958
Baumann, Robert, assignor of one-half to T. H. Wurmb, St. Louis, Mo. Burglar-alarm for windows	637,318	Nov. 21	2119	457	89	1384
Baumgardner, Harry B., Pottsgrove, Pa. Nut-lock	620,879	Mar. 14	637	140	86	1640
Baumgardner, William L., Watsonville, Cal. Brace or bit-stock attachment	631,922	Aug. 29	4059	911	88	1582
Baumgarten, Albert, Freeport, Ill. Nut-cracker	634,518	Oct. 10	1025	245	89	222
Baumgarten, Herman, Washington, D. C. Holder for inking-pads and pad-covers	621,206	Mar. 14	1246	275	86	1756
Baumert, Frank J. (See Pecht, John B., assignor.)						
Baumhoff, George W., and O. Schmid, assignors to W. M. Horton, St. Louis, Mo. Rail-breaking machine	629,417	July 25	2722	632, 633	88	586

Alphabetical list of patentees—Continued.

Name, residence, and invention.	No.	Date.	Monthly volume.		Official Gazette.	
			Spec.	Dr'g.	Vol.	Page.
Baur, Wilhelm. (See Oxnard and Baur.)						
Bauroth, Emil and W. F., Springfield, Ohio. Gas-engine	617,388	Jan. 10	1019	232, 233	86	217
Bauroth, Leonhard, Toledo, Ohio, assignor to L. B. Gaylor. Bicycle	628,383	July 4	810	188	88	155
Bauroth, William F. (See Bauroth, Emil and W. F.)						
Bausch, Edward, and A. Koehler, assignors to Bausch & Lomb Optical Company, Rochester, N. Y. Microscope	617,007	Jan. 3	273	62	86	55
Bausch & Lomb Optical Company. (See Bausch and Koehler, assignors.)						
Bauweraerts, Emile, Brussels, Belgium. Incandescent gas-burner	628,155	July 4	372	88	88	75
Baxter, Charles, assignor of one-half to F. Pertwee, London, England. Spanner	625,716	May 23	3177	721	87	1380
Baxter, German L., Lexington, Ky. Rail-joint	632,625	Sept. 5	746	171	88	1854
Baxter, John. (See Buchanan, Marque, assignor.)						
Baxter, Joseph, assignor of one-half to G. W. Beers, Fort Wayne, Ind. Listening-key or circuit-changer for operators' keyboards	623,117	Apr. 11	1702	393	87	344
Baxter, Robert W. (See Park, Baxter, and McKeen.)						
Bay, Gustave, Paris, France. Knife with connected blades	624,737	May 9	1435	323, 324	87	1002
Bay State Electric Heat and Light Company. (See Hager, Louis P., assignor.)						
Bay State Electric Heat and Light Company. (See Lundell, Robert, assignor.)						
Bay State Electric Heat and Light Company. (See Porter, Edwin F., assignor.)						
Bay State Shoe Machinery Company. (See Bertrand, Joseph E., assignor.)						
Bayldon, Francis J., Horncastle, and A. H. Armstrong, Stockton-on-Tees, England. Instrument for facilitating trigonometrical admeasurements	623,866	Apr. 25	3083	710	87	648
Bayles, Alfred G., New York, N. Y. Roller-skate	623,761	Apr. 25	2845	652	87	602
Bayles, Alfred G., New York, N. Y. Door-bolt	629,060	July 18	2070	482	88	441
Bayles, Alfred G., L. D. de Saussure, and T. Herron, New York, N. Y. Pipe-wrench	622,197	Apr. 4	3	1	87	3
Bayles, Robert N., Englewood, N. J. Brush-holder support	629,418	July 25	2725	633	88	587
Bayless, Walter S., Aberdeen, Md. Jar	634,742	Oct. 10	1422	336	89	300
Bayley, Arthur J., Milwaukee, Wis. Steam-trap	630,308	Aug. 1	1074	234	88	933
Bayley, Charles H., Boston, Mass. Skiving-machine	632,984	Sept. 12	1455	338	88	2008
Bayley, Charles H., Boston, Mass. Leather-skiving machine	636,942	Nov. 14	1377	293	89	1225
Bayley, George W., New York, N. Y. Acetylene-gas lamp	628,912	July 18	1818	423	88	391
Bayley, Walter H., Peacham, Vt. Neck-yoke	637,917	Nov. 28	3599	754	89	1738
Baynard, James S., assignor to R. L. Pritchard, New York, N. Y. Telegraph-sounder	629,645	July 25	3151	735	88	668
Baynes, Frederick A., assignor to R. Baynes, Buffalo, N. Y. Air-supplying apparatus	620,830	Mar. 7	540	115, 116	86	1608
Baynes, Henry K., assignor to Foreign Chemical and Electrolytic Syndicate, Limited, London, England. Decomposing alkali nitrates	632,394	Sept. 5	337	76	88	1773
Baynes, Rebecca. (See Baynes, Frederick A., assignor.)						
Bazin, Philippe, Condé-sur-Noireau, France. Traveling mechanism for ring spinning and doubling frames	624,738	May 9	1436	324	87	1002
Beach, Charles S. (See Lasher and Beach.)						
Beach, Clarence E., Binghamton, N. Y., assignor to Star Electric Company, of New York. Electromechanical gong	616,879	Jan. 3	12	3	86	5
Beach, Fred H. (See Ross, Alexander, assignor.)						
Beach, Frederick W., Brooksvale, Conn. Threshing attachment for fodder-cutting machines	628,571	July 11	1173	275	88	246
Beach, Henry E., Grand Forks, Canada. Protective head-screen	618,001	Jan. 17	2164	482	86	460
Beach, James E., Routier, Cal. Seeder attachment for gang-plows	626,453	June 6	439	103	87	1699
Beach, John, Springfield, Ohio. Machinist's tool	630,316	Aug. 8	1093	239	88	952
Beachem, George A. (See Macy, Clarence A., assignor.)						
Beacock, George, assignor of one-half to C. H. McCrady, Brockville, Canada. Bicycle-wheel rim	622,176	Mar. 28	3050	691	86	2135
Beadle, Charles H., Cowes, Isle of Wight, England. Rotary distributing-valve	630,767	Aug. 8	1947	439	88	1115
Beal, Alpha R., Pittsburg, Pa. Price or money-weight scale	626,520	June 6	553	128	87	1721
Beal, Carroll N., San Francisco, Cal. Insulating-support for electric wires	634,568	Oct. 10	1119	266	89	241
Beal, Frederick C., Toronto, Canada. Portable garment-holder	626,781	June 13	1042	233	87	1835
Beal, George W. (See Raymond and Beal.)						
Beal, Grant, Laddonia, Mo. Apparatus for wall-paper hanging	621,595	Mar. 21	1949	436	86	1903
Beal, James B., *et al.* (See Earl, William M., assignor.)						
Beal, John, Berthoud, and F. C. Brown, Loveland, Colo.; said Brown assignor to said Beal. Lung-tester	626,659	June 6	794	181	87	1768
Beal, Robert L. (See Girardeau, Thompson, and Beal.)						
Beal, William F. (See Reenstierna, Gustaf L., assignor.)						
Beale, Edwin J., Coles county, Ill. Corn-shelling and fodder-shredding attachment for threshing-machines	634,796	Oct. 10	1509	355	89	316
Beale, James J., Newark, N. J. Machine for drying printed or coated fabrics	639,650	Dec. 19	2695	620	89	2432
Beale, Oscar J., assignor to Brown & Sharpe Manufacturing Company, Providence, R. I. Machine for generating gearing	618,978	Feb. 7	360	74	86	879
Beale, Oscar J., assignor to Brown & Sharpe Manufacturing Company, Providence, R. I. Machine for generating gearing	618,979	Feb. 7	363	74, 75	86	880
Beale, Oscar J., assignor to Brown & Sharpe Manufacturing Company, Providence, R. I. Milling-machine	631,923	Aug. 29	4060	911	88	1582
Beall, John, Decatur, Ill. Hominy-mill	628,516	July 11	1070	249, 250	88	226
Beall, Thomas H. C., Cicero, Ind. Fifth-wheel	626,215	June 6	3	1	87	1615
Beall, Upton. (See Garber and Beall.)						
Beall, William L., assignor to Gale Manufacturing Company, Albion, Mich. Cultivator-tooth	617,711	Jan. 17	1618	363	86	354
Beall, William L., assignor to Gale Manufacturing Company, Albion, Mich. Cultivator	624,613	May 9	1227	275, 276	87	960
Beall, William L., assignor to Gale Manufacturing Company, Albion, Mich. Ratchet-lever and segment for plows	624,739	May 9	1437	324, 325	87	1002
Beall, William L., assignor to Gale Manufacturing Company, Albion, Mich. Reversible plow point and share	624,740	May 9	1439	325	87	1003
Beall, William L., assignor to Gale Manufacturing Company, Albion, Mich. Adjustable clamp for cultivator-teeth	633,333	Sept. 19	2156	505	88	2158
Beals, Erle V., Detroit, Mich. Type for printing	632,484	Sept. 5	496	113, 114	88	1805
Beals, Erle V., and W. B. Norton, Detroit, Mich. Matrix-making machine	634,715	Oct. 10	1375	323, 324, 325	89	292
Beam, George W., Oakland City, Ind. Grain-harvester elevator	637,918	Nov. 28	3600	754, 755	89	1739
Beam, James P., *et al.* (See Beam, William, assignor.)						
Beam, William, assignor to J. P. Beam, Gill Hall, and J. T. Trees, McKeesport, Pa. Metallurgical-furnace appliance	622,438	Apr. 4	429	99, 100	87	80

Alphabetical list of patentees—Continued.

Name, residence, and invention.	No.	Date.	Monthly volume. Spec.	Monthly volume. Dr'g.	Official Gazette. Vol.	Official Gazette. Page.
Beamer, Alfred, *et al.* (See De Vore, George E., assignor.)						
Bean, Henry L. (See Bennett, Emmet M., assignor.)						
Bean, J. A., *et al.* (See Stukes, John M., assignor.)						
Bean, James E., assignor to United States Manufacturing Company, Fond du Lac, Wis. Cyclometer	632,332	Sept. 5	227	53	88	1752
Bean, Joel, Jr. (See Keene, Walter S., assignor.)						
Bean, John C., Lexington, assignor to C. M. Martin, Boston, Mass. Bicycle-harness	638,861	Dec. 12	1251	283	89	2129
Bean, Matthias G., Rice Lake, Wis. Potato-digger	630,167	Aug. 1	820	177, 178	88	885
Bean, Walker L. (See Meyers, Andrew, assignor.)						
Bean, Walter N., assignor to W. O. Partridge, Arlington, Mass. Baton for police	619,268	Feb. 14	898	203	86	1004
Bear, Montague M. (See Russell, Daniel J., assignor.)						
Beard, Alva J. H., Flora, Ill. Car-coupling	628,384	July 4	812	188	88	156
Beard, Ambrose, Wolverhampton, England. Boiler-furnace	635,738	Oct. 31	3304	762	89	713
Beard, Andrew J., Eastlake, Ala. Car-coupling	624,901	May 16	1753	396	87	1082
Beard, Charles M., Elroy, Wis., assignor of one-half to M. Sherwood, Chicago, Ill. Snap-hook	619,658	Feb. 14	1570	358	86	1134
Beardmore, William, Glasgow, Scotland, and H. V. Holden, London, England. Casting armor-plates and mold therefor	619,123	Feb. 7	620	132	86	932
Beardsell, Arthur W., Milford, Mass., assignor to Draper Company, Portland, Me., and Hopedale, Mass. Loom	629,311	July 18	2522	587	88	525
Beardslee, John W. (See Pierce, David, assignor.)						
Beardsley, Chauncey H., and G. N. Talcott, Fremont, Ohio. Clamp for attaching soft treads to horseshoes	631,147	Aug. 15	2647	599	88	1276
Beardsley, William H., Pittsburg, Pa. Plaster	639,340	Dec. 19	2124	------	89	2317
Beardsworth, James H., Lynn, Mass. Clothes-drier	616,880	Jan. 3	16	4	86	6
Beariks, Charles, Peshtigo, Wis. Garden-spray	636,375	Nov. 7	254	56	89	972
Beasley, Bryant, Savannah, Ga. Triple valve	620,691	Mar. 7	282	57	86	1557
Beasley, William A. (See Scheid, Henry J., assignor.)						
Beasley, William F., Plymouth, N. C. Manufacturing cellular tires	634,866	Oct. 17	1646	387	89	360
Beasley, William F., Plymouth, N. C. Elastic tire	636,104	Oct. 31	4038	924	89	856
Beater, Alfred G., St. Louis, Mo. Apparatus for making embossing-dies	632,626	Sept. 5	747	171	88	1854
Beaton, Allan J., assignor to Beaton & Bradley Company, Southington, Conn. Floor and ceiling plate	636,943	Nov. 14	1379	294	89	1225
Beaton & Bradley Company. (See Beaton, Allan J., assignor.)						
Beattie, Francis, Banff, Canada. Billiard-cue holder	617,221	Jan. 3	682	158	86	133
Beattie, William. (See Maitland, John, assignor.)						
Beatty, E. D. (See Barnett, Everard S., assignor.)						
Beatty, George. (See Altenbaugh, William F., assignor.)						
Beatty, George H., Dayton, Ohio. Apparatus for packing cartridges	633,113	Sept. 19	1720	404	88	2072
Beatty, John, Jr. (See Hanna, Frank, assignor.)						
Beatty, Robert P., Cleveland, Ohio. Dispensing top or cover for packages, &c	621,785	Mar. 28	2318	521	86	1991
Beauchamp, Thomas B. (See Congour, Presley A., assignor.)						
Beauchéne, Charles. (See Brown and Beauchéne.)						
Beaudin, Elie, assignor of one-half to A. B. Baker, Rhinelander, Wis. Steam-propeller sleigh	618,771	Jan. 31	3615	808	86	767
Beaudoin, Napoleon E., Jersey City, N. J. Toy	625,239	May 16	2338	533	87	1192
Beaudry, Zotique, Lynn, Mass., assignor to Xpedite Machine Company, Berwick, Me. Tool for finishing heels	624,741	May 9	1440	325	87	1003
Beaulieu, Joseph H., Waterbury, Conn. Self-adjusting drying-rack	633,416	Sept. 19	2311	543	88	2188
Beaumont, Frederick E. B., London, England. Variable-speed gear for bicycles	632,627	Sept. 5	748	172	88	1854
Beaumont, Frederick E. B., London, England. Ratchet-gear for bicycles	633,417	Sept. 19	2312	543	88	2188
Beaumont, Myron H., Webster City, Iowa. Laundry-rack	620,831	Mar. 7	545	116	86	1609
Beaumont, Percy. (See McCarty, Frank, assignor.)						
Beauregard, Victor, assignor of one-half to C. S. Gooding, Boston, Mass. Door-check	625,962	May 30	3665	832	87	1491
Beauregard, Victor, F. Hausmann, Boston, and C. S. Gooding, Brookline; said Beauregard and Gooding assignors to said Hausmann; said Hausmann assignor to Siegel Labeling Machine Company, Boston, Mass. Bottle-labeling machine	620,534	Feb. 28	3146	719, 720, 721	86	1476
Beauvais, Crittenden J., Phœnix, Ariz. Ter. Violin-key	639,341	Dec. 19	2124	489	89	2317
Beaven, Frederick, and J. Delphin, Chicago, Ill. Shield for pneumatic tires	629,230	July 18	2372	551	88	498
Beaver, Walter D., Lebanon, Ind. Leak-closer	631,867	Aug. 29	3964	886	88	1564
Beavis, John B., Minneapolis, Minn. Manifolding account-book	631,455	Aug. 22	3202	727	88	1405
Bechdolt, James O., Collett, Ind. Hog-ring	636,238	Nov. 7	13	4	89	927
Becher, James A., Mishawaka, Ind. Duplex chucking-lathe	638,312	Dec. 5	237	49	89	1912
Bechman, Henry F., assignor to Duplex Printing Press Company, Battle Creek, Mich. Shifting tympan for printing-presses	627,089	June 20	1623	355	87	1966
Bechman, Henry F., assignor to Duplex Printing Press Company, Battle Creek, Mich. Paper-folding machine	628,066	July 4	195	44	88	39
Bechman, Henry F., assignor to Duplex Printing Press Company, Battle Creek, Mich. Printing-press	632,628	Sept. 5	750	172, 173	88	1854
Beck, Charles, Philadelphia, Pa. Paper-cutter	628,441	July 11	922	215	88	197
Beck, Charles F. (See Beck, William H., assignor.)						
Beck, Charles W., Chicago, Ill. Acetylene-gas generator	617,389	Jan. 10	1022	233	86	218
Beck, Charles W., Chicago, Ill. Lamp for generating acetylene gas	623,974	May 2	36	8	87	708
Beck, Charles W., Chicago, Ill. Acetylene-gas generator	627,795	June 27	2946	645	87	2246
Beck, Charles W., Chicago, Ill. Acetylene-gas generator	627,796	June 27	2949	645	87	2246
Beck, Edward M., Akron, Ohio. Manufacturing gums for varnishes, &c	627,452	June 20	2312	------	87	2103
Beck, Edward M., Akron, Ohio. Gum for varnishes, &c	627,453	June 20	2314	------	87	2103
Beck, J. Frank. (See Burton, James N., assignor.)						
Beck, John, Carnegie, Pa. Flexible sole for shoes	639,651	Dec. 19	2697	620	89	2433
Beck, Oliver, Watford, England. Door-holder	632,333	Sept. 5	229	54	88	1752
Beck, Robert M. (See Durand, Beck, and McLelland.)						
Beck, Rudolph H., assignor to Girard Button Manufacturing Company, Limited, Philadelphia, Pa. Button-making machinery	630,645	Aug. 8	1755	394, 395	88	1077
Beck, Theodore E., Newark, N. J. Bicycle-saddle	617,140	Jan. 3	544	129	86	107
Beck, Warren F., Elmira, N. Y. Manifolding-pad and holder	627,318	June 20	2039	448	87	2051
Beck, William H. (See Douglas, William H., assignor.)						
Beck, William H., assignor of one-half to C. F. Beck, Cressona, Pa. Trimming attachment for machines for sewing looped fabrics	639,502	Dec. 19	2422	559	89	2376
Becke, Max, and A. Beil, assignors to Farbwerke, vormals Meister, Lucius & Brüning, Höchst-on-the-Main, Germany. Dyeing unions	623,697	Apr. 25	2753	------	87	585
Becker, Anton, Cologne, Germany. Tapping device for casks	635,641	Oct. 24	3112	715	89	662
Becker, August. (See Zoerb and Becker.)						
Becker, Bernhard, Godesberg, Germany. Heating element for water-heaters	638,165	Nov. 28	4083	861	89	1830
Becker, Christian, assignor to Mattison Machine Company, Beloit, Wis. Abrading or polishing machine	629,885	Aug. 1	250	56	88	769

Alphabetical list of patentees—Continued.

Name, residence, and invention.	No.	Date.	Monthly volume. Spec.	Monthly volume. Dr'g.	Official Gazette. Vol.	Official Gazette. Page.
Becker, Edward P. (See Shelton, John, assignor.)						
Becker, Edward P., St. Louis, Mo. Fireman's ladder	627,893	June 27	3119	683	87	2278
Becker, Francis L., New York, N. Y. Tuning-peg for stringed instruments	621,207	Mar. 14	1247	275	86	1756
Becker, Frank J., Hamilton, Ohio, assignor to T. A. Neely, Muncie, Ind. Autographic register	639,204	Dec. 12	1865	429 430	89	2249
Becker, Frank J., Hamilton, Ohio, assignor to T. A. Neely, Muncie, Ind. Hand-stamp	639,959	Dec. 26	3277	750	89	2565
Becker, Frederick G., Peoria, Ill. Twine-balling machine	619,383	Feb. 14	1090	246 247	86	1043
Becker, Hermann, Paris, France. Preparing cathodes for electrodeposition of metals	630,796	Aug. 8	1999	------	88	1126
Becker, John, Glen View, Ill. Potato-digger	626,961	June 13	1397	308	87	1903
Becker, Philip, and W. J. Thompson, New York, N. Y. Type-writer	621,628	Mar. 21	2001	446 447	86	1913
Becker, William H., Walnut, Ill. Automatic hay-rack loader or unloader	632,229	Sept. 5	2	1	88	1709
Beckerle, William, Danbury, Conn. Window stop and lock	631,269	Aug. 22	2872	649	88	1339
Becket, Robert A., and W. A. Wood. Montreal, Canada. Metronome	619,857	Feb. 21	1968	447	86	1238
Beckett, Oliver L., Orting, Wash. Wagon-coupling	636,944	Nov. 14	1381	294	89	1226
Beckfield, John C., assignor to Beckfield Water Heater Company, Pittsburg, Pa. Water-heater	632,212	Aug. 29	4607	1038	88	1689
Beckfield Water Heater Company. (See Beckfield, John C., assignor.)						
Beckh, Georg, Nuremberg, Germany. Jumping-rope	623,698	Apr. 25	2755	631	87	585
Beckham, Henry F., Olive Hill, Tenn. Herbage-exterminator	638,951	Dec. 12	1413	------	89	2162
Beckmann, Oswald, assignor to Maschinenfabriken, vormals Gebrüder Guttsmann & Breslauer, Metallgiesserei Actien-Gesellschaft, Breslau, Germany. Water-meter	630,441	Aug. 8	1380	309	88	1005
Beckstrom, Charley A., Sioux City, Iowa. Wagon-brake	629,646	July 25	3153	735	88	669
Beckton, James G., Middlesbrough, England. Copying apparatus	627,636	June 27	2675	586 587	87	2192
Beckwith, Arthur K., Dowagiac, Mich. Manufacturing rings for stoves	633,780	Sept. 26	2973	690	88	2331
Beckwith, Arthur K., assignor to F. E. Lee, Dowagiac, Mich. Removable grate for cooking-stoves, &c	634,867	Oct. 17	1647	387	89	360
Beckwith, Samuel J., Chicago, Ill. Polishing-pad for flat-irons and lineu	626,664	June 13	806	184	87	1789
Bede, Emile, Brussels, Belgium. System for power transmission for electric traction	634,258	Oct. 3	543	136	89	109
Bedford, Lesueur, *et al.* (See Bagley, Frank A., assignor.)						
Bedingfield, John H., Bethlehem, Ga. Table-screen and fly-fan	618,980	Feb. 7	365	75	86	880
Bedworth, Arthur H. (See Bedworth, John A. and A. H.)						
Bedworth, John A. and A. H., Boston, Mass. Escapement for type-writing machines	630,025	Aug. 1	563	124	88	835
Bee, Harley L., Blandville, assignor of one-third to B. L. Lang, Long Run, W. Va. Circular-saw dresser	619,533	Feb. 14	1345	309	86	1092
Beebe, Dillon, Newark, N. J. Faucet-bung	628,298	July 4	657	153	88	127
Beebe, Dillon, Newark, N. J. Barrel filling or racking machine	636,618	Nov. 7	689	150 151	89	1061
Beebe, George F., Muskogee, Ind. Ter., assignor of one-third to O. K. Palmer and B. L. Taft, Parsons, Kans. Propelling mechanism for bicycles	617,390	Jan. 10	1028	234	86	219
Beebe, Robert W. (See Dietrich, Samuel W., assignor.)						
Beeby, James, Chicago, Ill. Wrench	631,148	Aug. 15	2649	599	88	1277
Beech, Handel, Oldham, England. Apparatus for automatically causing flow of water, &c.	634,842	Oct. 10	1593	373	89	333
Beecham, Walter E., Chicago, Ill. Car-record apparatus	618,388	Jan. 31	2937	650	86	637
Beecher, Ebenezer B. (See Garland, Frank M., assignor.)						
Beecher, Lina, Batavia, N. Y. Monorailway system	628,174	July 4	406	95, 96	88	82
Beeching, William H., Boston, Mass. Liquid-blacking brush	634,606	Oct. 10	1180	280	89	251
Beede, Warreu H., and F. W. Wright, Lynn, Mass. Apparatus for repairing pneumatic tires	618,452	Jan. 31	3052	675	86	657
Beehler, Charles W., St. Louis, Mo. Bin	638,166	Nov. 28	4084	862	89	1831
Beekman, Gerard, New York, N. Y. Propelling and braking mechanism	638,693	Dec. 12	973	216	89	2075
Beeley, Thomas C., Hyde, England. Vertical drilling-machine	638,695	Dec. 12	975	217	89	2076
Beels, George N., Norfolk, Nebr. Book-mark	628,913	July 18	1821	423	88	392
Beeman, Joseph S., London, England. Machine for inserting cigarette-mouthpieces	633,946	Sept. 26	3240	756	88	2385
Beer, Frank H. (See Forbes and Beer.)						
Beerkircher, Charles W. (See Wallach and Beerkircher.)						
Beers, Edgar, Georgetown, Conn., assignor of one-half to J. Gallagher, New York, N. Y. Machine for picking curled hair	618,023	Jan. 17	2208	493	86	469
Beers, Edgar, Georgetowu, Conn., assignor of one-half to J. Gallagher, New York, N. Y. Hair-picking machine	636,619	Nov. 7	696	151	89	1063
Beers, George W. (See Baxter, Joseph, assignor.)						
Beese, August F., Buffalo, N. Y. Dress-shield holder	621,208	Mar. 14	1248	276	86	1756
Beese, Louis, West Superior, Wis. Car-coupling	627,379	June 20	2169	477	87	2076
Beeton, Edwin B. (See Page, Arthur F., assignor.)						
Beever, Charles H., Pearsall, and W. A. McCoy, Campbellton, assignors of two-thirds to G. F. Hindes and S. M. Foster, Pearsall, Tex. Cactus-burner	630,823	Aug. 8	2050	462	88	1137
Beevor, Septimus F. (See Edwards and Beevor.)						
Begins, Joseph, Lisbon Center, Me. Attachment for looms	628,914	July 18	1822	423	88	392
Behan, Thomas, Woodlawn, Pa. Bicycle-pedal	626,045	May 30	3870	877	87	1528
Behlen, Charles A., Cincinnati, Ohio. Thill-coupling	621,596	Mar. 21	1951	436	86	1904
Behlen, Charles A., Cincinnati, Ohio. Thill-coupling	626,851	June 13	1177	262	87	1859
Behlen, Charles A., Cincinnati, Ohio. Thill-coupling	627,248	June 20	1898	418	87	2021
Behney, Ephraim, Ellwood, Pa. Switch-operating mechauism	619,124	Feb. 7	621	133	86	932
Behnisch, Carl H., Luckenwalde, Germany. Apparatus for pressing and shrinking cloth	623,648	Apr. 25	2666	611	87	568
Behnke, Otto. (See Resow and Behnke.)						
Behr, Burkard, Bendlikon, Switzerland. Cyclist's cartridge	621,553	Mar. 21	1888	418	86	1891
Behr, Burkard, Bendlikon, Switzerland. Repeating pistol	627,966	July 4	11	3	88	4
Behr, Burkard, Zurich, Switzerland. Signaling device	630,477	Aug. 8	1451	325	88	1020
Behr, Burkard, Zurich, Switzerland. Firearm	630,478	Aug. 8	1453	325	88	1020
Behr, Hans C., San Francisco, Cal. Hoisting machinery	627,769	June 27	2897	633	87	2237
Behrend, Oskar, Frankfort-on-the-Main, Germany. Secondary battery	639,652	Dec. 19	2698	620	89	2133
Behrend, Samuel K., Washington, D. C. Pile	639,884	Dec. 26	3123	718	89	2533
Behrend, Willy, Berlin, Germany. Mud-guard for cycles	621,441	Mar. 21	1663	368	86	1848
Behrer, Lewis J., assignor of three-fourths to H. H. Jones, R. F. and W. E. Bogue, Chicago, Ill. Nut-lock	632,334	Sept. 5	231	54	88	1753
Behringer, Rudolph J., Chicago, Ill. Machine for cooling, scouring, and cleaning malt or grain	618,389	Jan. 31	2940	650 651	86	637
Beidler, George A., Oklahoma, Okla. Ter. Cymbal campaign-torch	629,312	July 18	2526	587	88	526
Beighey, William J., Connoquinessing, assignor to W. C. Thompson, W. H. Miller, C. H. Oliver, and W. A. Stein, Butler, Pa. Rivet-catcher	639,503	Dec. 19	2424	559	89	2376
Beil, Albert. (See Becke and Beil.)						
Beil, Franz, Warnsdorf, Austria-Hungary. Chair with automatically-changing seat	636,745	Nov. 14	992	212	89	1149
Bein, Emil J., Newark, N. J., assignor to Tucker File Company, of New Jersey. Card-index	627,967	July 4	12	3	88	5

Alphabetical list of patentees—Continued.

Name, residence, and invention.	No.	Date.	Monthly volume. Spec.	Monthly volume. Dr'g.	Official Gazette. Vol.	Official Gazette. Page.
Bein, Emil J., Newark, N. J., assignor to Tucker File Company, of New Jersey. Bill-file	631,772	Aug. 29	3809	848	88	1533
Beissbarth, vormals Fr. Loos, Georg. (See Koschade, Adalbert, assignor.)						
Beissner, Ludwig, *et al.* (See Benseler, Heinrich, assignor.)						
Beitner, William, Traverse City, Mich. Curtain-fixture	635,991	Oct. 31	3800	874	89	809
Belanger, John T., assignor of one-half to F. H. Clark, Detroit, Mich. Telephone toll apparatus	627,172	June 20	1769	387	87	1995
Bélanger, Victor, assignor to J. Quincy, trustee, Boston, Mass. End-thrust bearing	630,581	Aug. 8	1643	367	88	1057
Belcher, George E., Stoughton, Mass. Shoe-stretcher	617,312	Jan. 10	859	202	86	187
Belcher, Henry, and F. Easom, Beeston, England. Frame-joint	620,832	Mar. 7	547	117	86	1609
Belcher, Henry, and F. Easom, Beeston, England. Joint for bicycle-frames	620,833	Mar. 7	548	117	86	1609
Belcher, Henry, and F. Easom, Beeston, England. Joint for bicycle-frames	620,834	Mar. 7	550	117	86	1610
Belcher, William C., Holland, Mich. Sash-fastener	639,843	Dec. 26	3071	705	89	2523
Belden, Edward H., Jackson, Mich. Electric-arc lamp	638,545	Dec. 5	676	142	89	1995
Belden, Edward H., Jackson, Mich. Electric-arc lamp	638,546	Dec. 5	679	143	89	1995
Belina, Wencel C. (See Olson, Smith, and Belina.)						
Belisle, Henry, Somerset, Wis. Wrench	627,894	June 27	3119	683	87	2279
Belk, John A., Wellington, New Zealand. Propeller for ships	639,134	Dec. 12	1729	399	89	2223
Belknap, Charles A., assignor of one-half to C. E. Parsons, New York, N. Y. Machine for addressing envelops or wrappers	628,385	July 4	813	188, 189, 190	88	156
Belknap, Frank D., New York, N. Y. Card-receiving box	627,380	June 20	2171	477	87	2077
Bell, Alexander. (See Young, Herring, and Bell.)						
Bell, Arthur F. L., Carpenteria, assignor to Alcatraz Company, San Francisco, Cal. Machine and apparatus for extracting and refining asphalt	617,712	Jan. 17	1620	364	86	354
Bell, Carroll M., assignor to himself, W. E. Arnold, G. E. Blake, and H. S. Renick, Greencastle, Ind. Motor	617,222	Jan. 3	683	158	86	133
Bell, Charles J., New Orleans, La. Furnace feeder and grate	628,740	July 11	1496	347	88	313
Bell, Charles S., *et al.* (See Smith, Edward F., assignor.)						
Bell, Chester L., El Paso, Tex. Scale	628,572	July 11	1176	275, 276	88	247
Bell, Clarence C., Marietta, Ohio. Revolving canister	618,219	Jan. 24	2607	577	86	557
Bell, E. Irving. (See Shettleworth, Frederick W., assignor.)						
Bell, Enos T. (See Forsyth and Bell.)						
Bell, Ernest E., assignor to De Laval Separator Company, Newark, N. J. Centrifugal cream-separator	633,562	Sept. 26	2573	603	88	2253
Bell, Frank M., New York, N. Y. Safety device for elevators	621,597	Mar. 21	1951	436, 437	86	1904
Bell, Frank M., assignor of one-half to J. D. Pou, New York, N. Y. Electrical transmission of sound	619,269	Feb. 14	899	203	86	1004
Bell, Frank M., assignor to W. Pollack, New York, N. Y. Valve	633,418	Sept. 19	2313	543	88	2188
Bell, George, Muncie, Ind. Combined curtain-pole hanger and shade-roller holder	618,492	Jan. 31	3128	692	86	671
Bell, George H. (See Spaulding, Amasa J., assignor.)						
Bell, Harry W. (See Blazo and Bell.)						
Bell House Cooling Company. (See Bell, Louis, assignor.)						
Bell, Jerome B., Wilmington, Del. Attachment for printing-presses	632,395	Sept. 5	339	76,77	88	1773
Bell, John H., Lawrence, Kans. Piano	637,069	Nov. 14	1617	350	89	1272
Bell, John W. (See Crocker, John C., assignor.)						
Bell, Joseph M., assignor to J. E. Gardiner and F. Marriner, Canton, Ill. Lever-actuated gate	630,442	Aug. 8	1381	309	88	1006
Bell, Leverett. (See Montague, Patrick H., assignor.)						
Bell, Lewis K., British Royal Navy. Instrument for measuring small visual angles	617,895	Jan. 17	1990	444, 445	86	427
Bell, Louis, Newton, Mass., assignor, by mesne assignments, to Bell House Cooling Company, New York, N. Y. Cooling apparatus	636,886	Nov. 14	1251	269, 270	89	1201
Bell, Louis, Newton, Mass., assignor, by mesne assignments, to Bell House Cooling Company, New York, N. Y. Cooling apparatus	636,887	Nov. 14	1256	270	89	1202
Bell, Louis, Newton, Mass., assignor, by mesne assignments, to Bell House Cooling Company, New York, N. Y. Cooling apparatus	636,888	Nov. 14	1258	270, 271	89	1203
Bell, Percy C., Metuchen, N. J., assignor to P. Carter Bell Company, New York, N. Y. Elastic compound	626,479	June 6	485	------	87	1707
Bell, Robert A. (See James, Ulysses S., assignor.)						
Bell, Thomas, Chicago, Ill. Acetylene-gas-generating lamp	631,554	Aug. 22	3401	769	88	1445
Bell, Thomas H., Cleveland, Ohio. Composition for coating engraving-plates	626,016	May 30	3810	------	87	1519
Bell, William. (See Waltz and Bell.)						
Bell, William, Dodge Centre, Minn. Automatic manure-loader	628,741	July 11	1498	347	88	313
Bell, William T., Nottingham, England. Electrically-illuminated advertising-sign	622,910	Apr. 11	1310	301, 302	87	267
Bell, William T., assignor to Universal Electrical Advertising Syndicate, Limited, Nottingham, England. Device for operating electrically-illuminated signs	636,021	Oct. 31	3852	885	89	819
Bell, Winfield S. (See Stevens, William, assignor.)						
Beller, James E., Washington, D. C. String-package	636,105	Oct. 31	4040	924	89	856
Bellers, Noah. (See Morris, William L., assignor.)						
Bellet, Ferdinand, Paris, France. Transmission device	621,017	Mar. 14	911	198	86	1690
Bellis, David C., Elizabeth, N. J. Overseam sewing-machine	618,597	Jan. 31	3312	736, 737	86	706
Bellis, Thomas K. (See Hewett, Thomas, assignor.)						
Bellon-Lencauchez, James A., Paris, France. Gas-producer	623,868	Apr. 25	3090	711, 712	87	649
Bellows, Arthur B., Pittsburg, Pa. Metal bolster	631,246	Aug. 15	2824	637	88	1313
Belly, Pierre. (See Raverot and Belly.)						
Belmont, Louis A., assignor to S. Franklin, Chicago, Ill. Device for bending moldings to form picture-frames	639,342	Dec. 19	2125	489	89	2317
Belohlavek, Anton J., Cleveland, Ohio. Buttonhole-cutting attachment for shears	623,867	Apr. 25	3088	711	87	649
Belot, Emile. (See Grouvelle and Belot.)						
Belt, William E., Chicago, Ill. Spectacles	625,083	May 16	2063	463	87	1140
Belz, Albert, Appleton, Wis. Propulsion mechanism for boats	618,555	Jan. 31	3242	720	86	693
Beman, Clifford W., Port Dickinson, N. Y. Bicycle-valve	617,272	Jan. 3	779	182	86	153
Beman, Henry C., Meadville, Pa. Oil-tank	638,696	Dec. 12	975	217	89	2076
Beman, Henry C., and F. H. Raymond, Meadville, Pa. Self-measuring liquid-dispensing vessel	640,081	Dec. 26	3491	800, 801	89	2609
Beman, Herbert D., assignor to C. J. King, Westfield, Mass. Whip	629,886	Aug. 1	253	56	88	769
Beman, Roy D., Meadville, Pa. Self-measuring apparatus for dispensing liquids	618,532	Jan. 31	3198	707, 708	86	685
Bemelmans, Fanny E., Philadelphia, Pa. Car-fender	626,480	June 6	485	113	87	1708
Bemis, Albert F., Boston, Mass. Cloth sack for flour, sugar, &c	625,012	May 16	1938	435	87	1117
Bemis, Frederick P., Davenport, Iowa. Bicycle	617,273	Jan. 3	781	182	86	153

Alphabetical list of patentees—Continued.

Name, residence, and invention.	No.	Date.	Monthly volume. Spec.	Monthly volume. Dr'g.	Official Gazette. Vol.	Official Gazette. Page.
Bemis, Frederick P., Davenport, Iowa. Bicycle	626,852	June 13	1179	262	87	1860
Bemis, Frederick P., Davenport, Iowa. Bicycle	635,032	Oct. 17	1927	458	89	416
Bemis, Gilbert C., Laconia, N. H. Toe-tip shell for lasts	620,835	Mar. 7	551	117	86	1610
Bemis, Gilbert C., Laconia, N. H. Adjustable last for boots or shoes	635,033	Oct. 17	1929	458	89	416
Bemis, Gilbert C., Laconia, N. H. Top-supporter for boots or shoes	635,034	Oct. 17	1932	459	89	417
Benbow, Paris T., St. Louis, Mo. Washing-machine	627,968	July 4	15	4	88	5
Benbow, William, Cleveland, Ohio. Fire-escape	627,173	June 20	1770	387, 388	87	1996
Benda, Sydney, assignor of one-half to D. Zenner, Syracuse, N. Y. Skirt-supporter	631,101	Aug. 15	2570	581	88	1261
Bender, Frank, Stilwell, Iowa. Recleaning attachment for clover or timothy recleaners.	627,319	June 20	2041	449	87	2051
Bender, John, and E. Smith, Dressor, Ill. Automatic tide-motor	623,699	Apr. 25	2756	631	87	585
Bender, William L. (See Verharen, Frank T., assignor.)						
Bending, William P., Cleveland, Ohio, assignor of one-half to J. C. Goodrich and E. I. Stimson, Detroit, Mich. Straining-pad for journal-bearings	629,762	Aug. 1	8	3	88	723
Bendixen, Niels, Copenhagen, Denmark. Method of and apparatus for sterilizing milk	622,659	Apr. 11	874	200, 201	87	186
Bendixen, Niels, Copenhagen, Denmark. Apparatus for propagating yeast	628,067	July 4	197	44	88	39
Bendure, Joseph S. (See Bendure, Tedrick D. and J. S.)						
Bendure, Tedrick D. and J. S., London, Ohio. Sample-holder	633,781	Sept. 26	2974	690	88	2331
Benedict, George W., Cincinnati, Ohio. Carbureter	622,198	Apr. 4	4	1	87	3
Benedict, Lewis. (See Leiger, George F., assignor.)						
Benedictis, Camillo D (See Travaglini, Antonio, assignor.)						
Beneke, Ernst A., Frankfort-on-the-Main, Germany. Cover for sewing, type-writer, or other machines	630,646	Aug. 8	1759	395	88	1078
Benge, Elmira J. (See Noe, Elisha, assignor.)						
Bengough, James. (See McDowell and Bengough.)						
Bengtson, Berndt E., assignor of one-half to J. D. England, Axtell, Nebr. Flue-stopper	618,323	Jan. 24	2791	619	86	593
Bengué, Jules, Paris, France. Cock and valve for bottles, &c	620,535	Feb. 28	3150	721, 722	86	1477
Benham, William B., assignor to S. B. Priest, Washington, D. C., and W. W. Lambert, Philadelphia, Pa. Filter and cleaner	627,071	June 13	1586	347	87	1939
Benhardus, Benhof E., St. Olaf, Minn. Musical instrument	638,000	Nov. 28	3759	789	89	1768
Bénier, Léon, Paris, France. Motor-vehicle	618,637	Jan. 31	3381	752	86	719
Benjamin, Barney A. (See Snell, Arthur T., assignor.)						
Benjamin, Edgar L., London, England. Locomotor for use in pipes or conduits	621,018	Mar. 14	912	198	86	1690
Benjamin, Elijah, and G. P. Jackson, assignors of one-half to M. Savage and M. J. Brannigan, Clarksville, Tenn. Filter	638,167	Nov. 28	4085	862	89	1831
Benjamin, Henry M., *et al.* (See Hachmann, Frederick, assignor.)						
Benjamin, John, Syracuse, N. Y. Baby-jumper	626,521	June 6	556	128	87	1722
Benjamin, Joseph E., Hubbell, Nebr. Churn	630,768	Aug. 8	1949	439, 440	88	1115
Benjamin, Walter R., Grand Tower, Ill. Air-rifle	627,320	June 20	2044	450	87	2051
Bennett, Charles D., Elizabethtown, Ind. Railway	635,526	Oct. 24	2905	663	89	622
Bennett, Charles R., Tullytown, Pa. Marble game	638,436	Dec. 5	479	98	89	1958
Bennett, Charles R., Tullytown, Pa. Puzzle	638,437	Dec. 5	481	98	89	1959
Bennett, Daniel E., Melrose, Mass. Vehicle-tire	640,082	Dec. 26	3494	801	89	2610
Bennett, Edward A. (See Rombach, John, assignor.)						
Bennett, Edward A., Huntington, W. Va. Plow	619,270	Feb. 14	901	203	86	1004
Bennett, Edwin, Carthage, Mo. Stove-rack	639,702	Dec. 26	2803	646	89	2470
Bennett, Elson T., assignor to W. C. Bennett, Towanda, Pa. Brick-mold sander	636,620	Nov. 7	699	152, 153	89	1063
Bennett, Elwood, assignor of one-third to S. Panabaker, Kokomo, Ind. Rotary engine	639,504	Dec. 19	2425	559, 560, 561	89	2377
Bennett, Emmet M., assignor of one-half to H. L. Bean, Baltimore, Md. Type-writing machine	636,709	Nov. 7	876	194	89	1101
Bennett, Ferdinand E., Highlands, Ind. Torpedo-placer	637,442	Nov. 21	2348	507	89	1430
Bennett, George M. (See Simmons, Forgham, and Bennett.)						
Bennett, George S., Portland, Oreg. Acetylene-gas generator	637,546	Nov. 21	2542	550, 551	89	1467
Bennett, Herbert. (See Bennett, Thomas, assignor.)						
Bennett, James A. (See Patton, Thomas, assignor.)						
Bennett, John E. (See McDermott and Bennett.)						
Bennett, Josiah Q., trustee. (See Cunningham and Mullen, assignors.)						
Bennett, Robert J., assignor to Lyon & Healy, Chicago, Ill. Reed-organ	624,742	May 9	1442	325, 326	87	1004
Bennett, Ruloff R., New York, N. Y. Invalid-coach	623,591	Apr. 25	2575	589, 590	87	552
Bennett, Thomas, assignor of one-half to H. Bennett, London, England. Tool for removing and replacing covers of pneumatic tires	620,836	Mar. 7	552	118	86	1610
Bennett, Thomas, assignor of one-half to H. Bennett, London, England. Tool for removing and replacing covers of pneumatic tires	620,837	Mar. 7	554	118	86	1610
Bennett, Thomas G., assignor to Winchester Repeating Arms Company, New Haven, Conn. Compound punch	627,289	June 20	1973	434	87	2037
Bennett, Thomas G., assignor to Winchester Repeating Arms Company, New Haven, Conn. Bolt-gun	632,090	Aug. 29	4369	982	88	1642
Bennett, Walter E. (See Jenkins, Herbert T., assignor.)						
Bennett, Warren C. (See Bennett, Elson T., assignor.)						
Bennett, William W., Mesquite, Tex. Telephone system	628,068	July 4	199	45	88	40
Bennetto, John W., Newquay, England. Tripod-stand	619,659	Feb. 14	1571	358	86	1134
Benney, John H., Evansville, Wis. Tank-heater	635,224	Oct. 17	2304	537	89	489
Benni, Paul, Ostrowiec, Russia. Apparatus for regulating discharge area of furnace twyers	636,239	Nov. 7	14	4	89	927
Bennington, John, Fouts, Okla. Ter. Wire-fence machine	627,969	July 4	18	4	88	6
Bennum, George W., Georgetown, Del. Frame for magnifying-glasses	623,975	May 2	39	8	87	709
Bennum, George W., Georgetown, Del. Combination-glasses	624,445	May 9	914	206	87	901
Benseler, Heinrich, Beienrode, assignor to G Kahle, Rittmarsbausen, T. Henjes and L. Beissner, Göttingen, Germany. Trap for catching rats, &c	639,135	Dec. 12	1730	399	89	2223
Benshoff, Harry M., and A. J. Gairing, Johnstown, Pa. Trace-fastener	639,136	Dec. 12	1731	400	89	2223
Bensing, Jacob, Malinta, Ohio. Brick or tile cutting plant	621,315	Mar. 21	1459	323	86	1810
Benson, Alvarado T., *et al.* (See Hall, William H., assignor.)						
Benson, Arza M., Cleveland, Ohio. Door-locking burglar-alarm	625,867	May 30	3494	791	87	1459
Benson, Edwin A., Buffalo, N. Y. Car-lamp	636,889	Nov. 14	1261	271	89	1204
Benson, George L., St. Michaels, Md. Refrigerator-case	634,868	Oct. 17	1649	388	89	360
Bent, George W., Hyde Park, Mass. Bed-bottom	620,880	Mar. 14	638	140	86	1640
Bent, George W., Hyde Park, Mass. Bed	639,703	Dec. 26	2804	647	89	2470

Alphabetical list of patentees—Continued.

Name, residence, and invention.	No.	Date.	Monthly volume.		Official Gazette.	
			Spec.	Drg.	Vol.	Page.
Bentel, Frederick, Hamilton, Ohio. Manifolding-book	626,665	June 13	807	184	87	1799
Bentley, Albert L. (See Jordan, Harry F., assignor.)						
Bentley, Edward M., New York, N. Y. Electric-railway trolley	619,927	Feb. 21	2084	473	86	1259
Beutley, Edward M., Boston, Mass. Heating metals by electricity	628,429	July 4	892	209	88	171
Bentley, John H., Paterson, N. J. Warping-machine	628,136	July 4	338	81	88	69
Bentley, John T., Englewood, N. J. Means for and process of making printing-surfaces by photography	632,437	Sept. 5	412	92,93	88	1788
Bentley, John T., Englewood, N. J., assignor, by mesne assignments, to Luciform Company, of New York. Photoreproduction process and apparatus	625,734	May 30	3217	731 732	87	1406
Bentley, John T., Englewood, N. J., assignor to Luciform Company, of New York. Photographic character	632,435	Sept. 5	402	92	88	1787
Bentley, John T., Englewood, N. J., assignor, by mesne assignments, to Luciform Company, of New York. Photoreproduction process	632,436	Sept. 5	406	92	88	1787
Bentley, John T., Englewood, N. J., assignor to Luciform Company, of New York. Photographic character	632,670	Sept. 5	854	199	88	1878
Benton, Emma, Butte, Mont. Garment-supporter	621,629	Mar. 21	2004	447	86	1914
Benton, Emma, Butte, Mont. Work-box	639,653	Dec. 19	2699	620	89	2433
Benton, Francis E., Stoughton, Mass. Wooden clothes-pin	620,093	Feb. 28	2380	539	86	1330
Benton, Heber C., Sunbury, N. C. Transplanter	639,654	Dec. 19	2700	621	89	2433
Benton, Henry, Elizabeth, assignor of one-half to C. B. Ring, Lorraine, N. J. Stoking-grate	638,659	Dec. 5	880	192 193	89	2037
Benzion, Joseph, Chicago, Ill. Shade-support	622,837	Apr. 11	1181	275	87	243
Beran, Samuel, Brünn, Austria-Hungary. Carding-machine	630,479	Aug. 8	1454	325	88	1020
Berard, Simeon, Fall River, Mass. Winding-machine	622,103	Mar. 28	2902	657	86	2105
Berard, Simeon, Fall River, Mass. Spinning-frame	622,104	Mar. 28	2904	658	86	2105
Berbecker, Julius, Waterbury, Conn. Easel for photographs	625,013	May 16	1940	436	87	1117
Berbecker, Julius, Waterbury, Conu. Curtain-rod	629,187	July 18	2306	535	88	486
Berck, Henry P., Chicago, Ill. Street-railway track	622,988	Apr. 11	1439	332	87	294
Berdell, Theodore, Summit, N. J. Telephone	617,433	Jan. 10	1108	253	86	234
Berg, Andrew, assignor to Coulter & McKenzie Machine Company, Bridgeport, Conn. Button-attaching machine	623,939	Apr. 25	3218	742	87	674
Berg, Charles J., Duhring, Pa. Kettle-lifter	630,317	Aug. 8	1093	239	88	953
Berg, Christ, *et al.* (See Elgen, Magnus P., assignor.)						
Berg, Emanuel, Woodland, Cal. Grain-roller	635,642	Oct. 24	3112	715	89	662
Berg, Ernst J. (See Steinmetz and Berg.)						
Berg, Ernst J., Schenectady, N. Y., assignor to General Electric Company, of New York. Arc-rupturing device	630,318	Aug. 8	1096	239	88	953
Berg, Friedrich, Cleveland, Ohio. Refining petroleum	623,066	Apr. 11	1575	------	87	321
Berg, Per Torsten, Munhall, Pa. Continuous heating-furnace	617,917	Jan. 17	2033	454 455	86	435
Berg, Per Torsten, Munhall, Pa. Tipping metallurgical furnace	617,918	Jan. 17	2034	455	86	436
Berg, Rudolf, assignor of one-half to F. Wenig, Pittsburg, Pa. Air compressing and cooling apparatus	626,883	June 13	1270	277 278	87	1877
Berg, Theodore, assignor to G. Johnson, E. Nelson, C. F. Peterson, O. F. and N. H. Olson, Chicago, Ill. Rotary engine	620,636	Mar. 7	159	33,34	86	1533
Bergen, Benjamin E., and B. F. Gill, Cropper, Ky. Gate	639,137	Dec. 12	1733	400	89	2224
Berger. Adolf, Cheney, Wash. Fruit-evaporator	618,832	Feb. 7	25	5,6	86	808
Berger, Charles H. (See Mahannah and Berger.)						
Berger, Ernst M., assignor to Firm C. Zeiss, Jena, Germany. Iris mechanism	622,592	Apr. 4	738	170	87	140
Berger, Hans, Berlin, Germany. Acetylene-gas generator	625,735	May 30	3222	732	87	1407
Berger, Hans, Berlin, Germany. Apparatus for measuring liquids	638,209	Dec. 5	2	1	89	1807
Berger, Louis. (See Glardon-Jaquet and Berger.)						
Berger Manufacturing Company. (See Heyard, Frank, assignor.)						
Berger, Max, assignor to Firm C. Zeiss, Jena, Germany. Revolving slide-rest	632,230	Sept. 5	3	1,2	88	1709
Berger, Robert. (See Lang and Berger.)						
Bergeron, Onesime I., St. Gregoire, assignor of one-half to L. E. Dufresne, Three Rivers, Canada. Clothes-pin	633,981	Oct. 3	2	1	89	3
Bergerson, Antou, Chaseburg, Wis. Well-tube-lifting apparatus	638,001	Nov. 28	3762	790	89	1769
Bergh, Benjamin F. (See Stone, Charles E., assignor.)						
Berghoefer, Charles. (See Berghoefer, Edward C., assignor.)						
Berghoefer, Charles, Milwaukee, Wis. Hoisting device	635,643	Oct. 24	3114	716	89	662
Berghoefer, Charles, Milwaukee, Wis. Scoop or bucket	639,656	Dec. 19	2704	622	89	2434
Berghoefer, Edward C., assignor of one-half to C. Berghoefer, Milwaukee, Wis. Elevator and conveyer	639,655	Dec. 19	2701	621 622	89	2433
Bergl, Armin, *et al.* (See Kohl, Georg, assignor.)						
Berglund, Karl W., Brockton, Mass. Lasting device	631,609	Aug. 22	3501	789	88	1465
Bergman, John A., Chicago, Ill. Washing-machine	636,945	Nov. 14	1382	294	89	1226
Bergman, Victor, assignor of one-half to W. G. Boyle, Mysia, Victoria. Fastening or clasp for boots, &c	633,947	Sept. 26	3243	757	88	2385
Bergmann, Emanuel. (See Eibig, Paul, assignor.)						
Bergmann, Sigmund, New York, N. Y., assignor to General Incandescent Arc Light Company, of New York. Carbon-holder for electric-arc lamps	620,214	Feb. 28	2602	591	86	1370
Bergmann, Sigmund, New York, N. Y., assignor to General Incandescent Arc Light Company, of New York. Electric-arc lamp	625,431	May 23	2692	613 614	87	1284
Bergmann, Sigmund, New York, N. Y., assignor to General Incandescent Arc Light Company, of New York. Electric-arc lamp	625,432	May 23	2695	614	87	1285
Bergmann, Sigmund, New York, N. Y., assignor to General Incandescent Arc Light Company, of New York. Armature for dynamo-electric machines	635,739	Oct. 31	3305	763	89	712
Bergmann, Sigmund, New York, N. Y., assignor to General Incandescent Arc Light Company, of New York. Electric-arc lamp	635,740	Oct. 31	3307	763	89	713
Bergold, Joseph M., Canton, Ohio. Combined coupling and antirattler	619,271	Feb. 14	903	204	86	1005
Bergquist, John G. (See Whitiug and Bergquist.)						
Bergquist, Otto. (See Dammen and Bergquist.)						
Bergsland, Hans H., Red Wing, Minn. Windmill	620,838	Mar. 7	555	119	86	1610
Bergst, Alphons, Berlin, Germany. Regulator for pumps	631,149	Aug. 15	2651	600	88	1277
Bergström, Albert, Bosjön, Finshyttan, Sweden. Filter or strainer	622,439	Apr. 4	430	100	87	80
Bergstrom, Gustaf, Republic, Mich. Cattle-guard gate	627,470	June 27	2348	517	87	2127
Berkemeyer, Ferdinand, Sellersville, Pa. Shaking-grate	626,136	May 30	4069	928	87	1564
Berkey, Charles H. (See Culver, Augustus C., assignor.)						
Berkstresser, John E., Sylacauga, Ala. Syrup-pitcher	617,801	Jan. 17	1809	404	86	391
Berkstresser, Robert H., York, Pa. Combined cultivator and weeder	639,138	Dec. 12	1734	400	89	2224
Berlin Machine Works. (See Kelly, Edward, assignor.)						
Berlin Machine Works. (See Lane, Franklin L., assignor.)						
Berliner, Emile, Washington, D. C. Floor-covering	621,316	Mar. 21	1462	324	86	1810
Berliner, Emile, assignor to United States Gramophone Company, Washington, D. C. Gramophone sound-box	637,196	Nov. 14	1882	405	89	1722

Alphabetical list of patentees—Continued.

Name, residence, and invention.	No.	Date.	Monthly volume. Spec.	Monthly volume. Dr'g.	Official Gazette. Vol.	Official Gazette. Page.
Berliner, Emile, assignor to United States Gramophone Company, Washington, D. C. Gramophone, &c	637,197	Nov. 14	1885	405	89	1322
Berlize, Theophile. (See Ragot and Berlize.)						
Berman, Joseph, Baltimore, Md. Match-safe	636,946	Nov. 14	1384	295	89	1226
Bermes, Mathias H., Aurora, Ill. Hay-knife	626,522	June 6	558	129	87	1722
Bernard, Arthur M., H. F. Reynaud, and W. J. Bernard, New Iberia, La. Combined stubble-shaver and plaut-cane scraper	622,105	Mar. 28	2907	658	86	2106
Bernard, Joseph A. E., Central Falls, R. I. Percolator	621,990	Mar. 28	2716	613	86	2067
Bernard, Leopold, New York, N. Y. Protector for keyboard-rails	638,086	Nov. 28	3906	822	89	1798
Bernard, William, New York, N. Y. Pincushion	633,181	Sept. 19	1848	435	88	2097
Bernard, William A., assiguor to William Schollhorn Company, New Haven, Conn. Nippers	635,417	Oct. 24	2709	621	89	583
Bernard, Willy J. (See Bernard, Reynaud, and Bernard.)						
Bernardi, Enrico, Padua, Italy. Circulation of water in cylinder-jackets	623,869	Apr. 25	3092	712	87	649
Bernardi, J. A., *et al.* (See Kaiser, John B., assignor.)						
Bernardini, Walter B., Lakewood, and W. Ely, Providence, assignors to Hope Electric Appliance Company, Providence, R. I. Electric switch	620,839	Mar. 7	557	120	86	1611
Berner, Frederick, Jr., Indianapolis, Ind. Drying apparatus	617,391	Jan. 10	1031	234	86	220
Bernhard, Herman F., Richmond, Va. Garment-hanger	621,019	Mar. 14	915	199	86	1691
Bernhardt, Amanda. New York, N. Y. Detergent	620,407	Feb. 28	2926	------	86	1433
Bernhardt, Charles, Philadelphia, Pa. Weighiug chute-wagon	623,976	May 2	40	8, 9	87	709
Bernheim Brothers. (See Henckel, George, assignor.)						
Bernheimer, Meyer A., *et al.* (See Davis, Edward, assignor.)						
Bernier, Amede, Victor, Colo. Combined knife and candlestick	631,270	Aug. 22	2874	649	88	1340
Beruinghaus, Edmund O., and B. Kochs, St. Louis, Mo. Caster	632,166	Aug. 29	4515	1016	88	1672
Bernolak, Joseph, assignor to Lyrochord Manufacturing Company, Baltimore, Md. Cithern	627,221	June 20	1852	405	87	2012
Bernson, Victor E., Salem, Ohio. Curling-iron heater	623.067	Apr. 11	1578	364	87	322
Bernstein, Adolph, New York, N. Y. Skirt-supporter	623,458	Apr. 18	2322	532	87	485
Bernstein, Bennett, New York, N. Y. Shirt	617.307	Jan. 3	843	196, 197	86	166
Bernstein, Benny, New York, N. Y. Trunk-lock	629,763	Aug. 1	9	3	88	723
Bernstein, William F., Philadelphia, Pa. Sterilizer	635,527	Oct. 24	2906	663, 664	89	622
Bernthsen, Heinrich A., Mannheim, assignor to Badische Anilin and Soda Fabrik, Ludwigshafen, Germany. Oxynaphtindophenolthiosulfonic acid and making same	625,637	May 23	3046	------	87	1355
Bernthsen, Heinrich A., Mannheim, and P. Julius, assignors to Badische Anilin and Soda Fabrik, Ludwigshafen, Germany. Orange dye and making same	631,610	Aug. 22	3502	------	88	1465
Bernthsen, Heinrich A., Mannheim, aud P. Julius, assignors to Badische Anilin and Soda Fabrik, Ludwigshafen, Germany. Disazo orange dye and making same	631,611	Aug. 22	3503	------	88	1465
Bernthsen, Heinrich A., Manuheim, Germany, and G. F. Jaubert, Paris, France, assignors to Badische Anilin and Soda Fabrik, Ludwigshafen, Germany. Blue dye and making same	617,628	Jan. 10	1454	------	86	303
Berquist, Axel S. F., New York, N. Y. Storage bin or bunker	625,947	May 30	3628	825	87	1484
Berresford, Arthur W., Westfield, N. J. Theater-dimmer	628,685	July 11	1403	326	88	291
Berrier, James M., Eyrie, Tex. Pump	619,534	Feb. 14	1347	310	86	1092
Berrigan, John J., Avon, N. Y., assignor to De Laval Separator Company, of New Jersey. Centrifugal cream-separator	630,168	Aug. 1	824	178	88	885
Berrigan, John J., assignor to Aktiebolaget Separator, Stockholm, Sweden. Centrifugal creamer	637,070	Nov. 14	1619	350, 351	89	1273
Berry, Arthur F., Market-Harborough, England. Electrical transformer	639,505	Dec. 19	2429	561	89	2377
Berry, Charles M., assignor of eleven-twelfths to H. Summers, San Francisco, Cal., M. Adams, and B. P. Maddox, Chicago, Ill. Rubber heel	634,680	Oct. 10	1308	308	89	278
Berry, Clarence J. (See Livermore, John W., assignor.)						
Berry, David R., Harrison, and W. P. Bonnell, Jr., Newark, N. J. Bicycle-chain	628,386	July 4	816	190	88	156
Berry, Elmore D., Cleveland, Ohio. Carpet-fastening device	632,911	Sept. 12	1344	308	88	1986
Berry, Ira G., assignor to Keystone Manufacturing Company, Rock Falls, Ill. Cornsheller	637,698	Nov. 21	3192	663	89	1635
Berry, James W., Iowa City, Iowa. Flushing apparatus	638,002	Nov. 28	3764	790	89	1769
Berry, Julius S., Blue Mountain, Miss. Hand heating and steaming device	639,657	Dec. 19	2706	622	89	2435
Berry, Reuben, *et al.* (See Davis, Sylvanus E., assignor.)						
Berry, Richard L., Orangeburg, S. C. Journal-bearing for form-rollers of printing-presses	628,387	July 4	817	190	88	156
Berry, Robert C., assignor to Pneumatic Cancelling Machine Company, Indianapolis, Ind. Feeding device for printing-presses	622,106	Mar. 28	2908	659, 660	86	2106
Berry, Robert C., assignor to Pneumatic Cancelling Machine Company, Indianapolis, Ind. Printing, stamping, or canceling machine	622,107	Mar. 28	2914	660, 661, 662	86	2107
Berry, Seneca L., San Francisco, Cal. Hydraulic elevating-machine	632,829	Sept. 12	1187	271	88	1958
Berry, Walter M., Chicago, Ill. Machine for contracting sheet-metal articles around hard-metal dies	633,114	Sept. 19	1722	404	88	2072
Berry, Wilbur F., Chicago, Ill. Door-hanger	617,553	Jan. 10	1319	297	86	276
Berry, William E. (See Goodamote, Emery, assignor.)						
Berry, William E. (See Van Etten and Berry.)						
Berry, William E., Manchester, England. Water-tube boiler	620,408	Feb. 28	2926	669, 670	86	1433
Berry, William H. (See Munsey, Horace W., assignor.)						
Bersbach, Emil. (See Frazee and Bersbach.)						
Berschneider, Henry, Summer Hill, Pa. Nut-lock	629,647	July 25	3155	735	88	669
Berst, Charles, New Albany, Ind. Punching-register	633,982	Oct. 3	3	1	89	3
Bersted, Martin C., Chicago, Ill. Hinge	622,321	Apr. 4	218	49	87	42
Bersted, Martin C., Chicago, Ill. Door-spriug	637,319	Nov. 21	2120	457	89	1384
Bertels, Charles E., Wilkes-Barré, Pa. Clutch mechanism	629,328	July 25	2559	595	88	552
Berthier, André V. P. M., Paris, France. Breech-bolt for firearms	623,459	Apr. 18	2323	532	87	485
Bertig, A., *et al.* (See Carrigan, George S., assignor.)						
Bertig, S., *et al.* (See Carrigan, George S., assignor.)						
Bertolett, Edwin F., Philadelphia, Pa., assignor to Bertolett Manufacturing Company, Camden, N. J. Metallic window frame and sash	621,209	Mar. 14	1250	276	86	1757
Bertolett Manufacturing Company. (See Bertolett, Edwin F., assignor.)						
Berton, John F. (See Hinds, Franklin P., assignor.)						
Bertram, Alexander H., *et al.* (See Bertram, John, assignor.)						
Bertram, Carl F., Weimar, Germany. Centrifugal cream-separator	624,424	May 2	872	196	87	868
Bertram, John, assignor of two-thirds to A. H. Bertram, Dundas, Canada, S. C. Rogers, Buffalo, N. Y., and J. A. Stirling, Hamilton, Canada. Boring and excavating implement	629,539	July 25	2962	691	88	633
Bertram, William E., New York, N. Y., assignor to Monoline Composing Company, Washington, D. C. Monoline type composing and casting machine	622,989	Apr. 11	1439	332, 333, 334	87	294
Bertram, William G., New York, N. Y. Garment-clasp	630,319	Aug. 8	1098	239	88	954

Alphabetical list of patentees—Continued.

Name, residence, and invention.	No.	Date.	Monthly volume. Spec.	Monthly volume. Dr'g.	Official Gazette. Vol.	Official Gazette. Page.
Bertrand, Joseph E., Boston, Mass. Thread-controlling mechanism for sewing-machines	618,372	Jan. 24	2875	638	86	608
Bertrand, Joseph E., Boston, Mass. Sewing-machine	618,373	Jan. 24	2878	638, 639	86	609
Bertrand, Joseph E., Boston, Mass. Sewing-machine shuttle	620,729	Mar. 7	358	73	86	1571
Bertrand, Joseph E., Boston, Mass. Stitch separating and pricking-up machine	620,730	Mar. 7	359	74	86	1571
Bertrand, Joseph E., Boston, Mass., assignor to Bay State Shoe Machinery Company, Boston, Mass., and Portland, Me. Sole rough-rounding and channeling machine	625,736	May 30	3223	732, 733	87	1407
Bertrand, Joseph E., Boston, Mass., assignor to Bay State Shoe Machinery Company, Boston, Mass., and Portland, Me. Sole rough-rounding and channeling machine	625,737	May 30	3226	733	87	1407
Bertrand, Joseph E., Boston, Mass., assignor to Bay State Shoe Machinery Company, Boston, Mass., and Portland, Me. Thread-controlling mechanism for sewing-machines	631,924	Aug. 29	4062	912	88	1583
Bertrand, Joseph E., Boston, Mass., assignor to Bay State Shoe Machinery Company, Boston, Mass., and Portland, Me. Tension for sewing-machines	637,225	Nov. 21	1943	415	89	1349
Bertsch, Charles A. (See Abrahams, John W., assignor.)						
Bertsch, Frank. (See Gorman, Bertsch, and Aamodt.)						
Bertschy, Frederick H., Allentown, Wis. Combined sink and bath-tub	627,174	June 20	1772	388	87	1996
Berude, Emil R., Dresden-Blasewitz, Germany. Car-coupling	638,952	Dec. 12	1413	323	89	2163
Berwind, Edward J., *et al.*, trustees. (See Galbraith, Robert, assignor.)						
Berwind, Edward J., *et al.*, trustees. (See Gertanner, Frederick, assignor.)						
Besley, Charles H., and T. J. Sullivan, Chicago, Ill. Drop file-cabinet	640,155	Dec. 26	3619	832	89	2636
Besly, Charles H. (See Gardner, Frederick N., assignor.)						
Bessell, Henry R., Wayland, Ill. Device for separating whites and yolks of eggs	621,516	Mar. 21	1813	403	86	1876
Bessey, Albert W., Orange, Cal. Heating apparatus for incubators	638,168	Nov. 28	4087	862	89	1831
Bessonette, Charles L., Waco, Tex., assignor, by mesne assignments, to American Cotton Company, New York, N. Y. Roller cotton-press	627,743	June 27	2856	625	87	2227
Best, Benjamin A. (See Best, Joseph T. and B. A.)						
Best, Daniel, San Leandro, Cal. Harvester grain separator and cleaner attachment	620,731	Mar. 7	360	74	86	1572
Best, Daniel, San Leandro, Cal. Harvester-guard finger-bar	620,732	Mar. 7	363	74	86	1572
Best, Joseph T. and B. A., High Point, N. C. Clothes-drier	632,629	Sept. 5	755	173	88	1856
Best, William, assignor to Ackroyd & Best, Limited, Morley, England. Miner's safety-lamp	617,872	Jan. 17	1942	435	86	418
Best, William, assignor to Ackroyd & Best, Limited, Morley, England. Apparatus for electrically igniting miners' safety-lamps	625,014	May 16	1941	436	87	1117
Best, William D., Greensburg, Pa. Folding box	633,782	Sept. 26	2975	690	88	2332
Beston, George, Cork, Ireland. Machine for stropping razors	617,274	Jan. 3	788	183	86	155
Betcone, Donald S., Indianapolis, Ind. Shoe-displaying device	634,387	Oct. 3	790	189	89	156
Béthisy, Lucien L., Paris, France. Uninflammable nitrocellulose product	625,313	May 23	2485	------	87	1245
Bethlehem Iron Company. (See Meigs and Stout, assignors.)						
Betka, Michael, Dayton, Tex. Rail-joint fastening	623,508	Apr. 25	2414	553	87	521
Bettendorf, Joseph W., Davenport, Iowa. Supplemental wagon-post	620,094	Feb. 28	2381	539	86	1330
Bettendorf, Joseph W., Davenport, Iowa. Check-rower	635,838	Oct. 31	3498	803, 804	89	749
Bettendorf, Joseph W., Davenport, Iowa. Supporting-frame for check-rowers	635,839	Oct. 31	3500	804	89	750
Bettendorf Metal Wheel Company. (See Emfeldt, Emil, assignor.)						
Bettendorf, William P., Davenport, Iowa. Combined hound and brace for wagons	620,095	Feb. 28	2382	539	86	1330
Bettendorf, William P., Davenport, Iowa. Body and car-truck bolster	620,269	Feb. 28	2691	617	86	1388
Bettendorf, William P., Davenport, Iowa. Truss-beam	620,561	Mar. 7	6	2	86	1504
Bettendorf, William P., Davenport, Iowa. Underframe for cars	625,534	May 23	2860	652	87	1318
Bettendorf, William P., Davenport, Iowa. Car-truck bolster	635,992	Oct. 31	3801	875	89	810
Bettendorf, William P., Davenport, Iowa. Side frame for car-trucks	638,902	Dec. 12	1328	301	89	2145
Bettini, Gianni, New York, N. Y. Phonograph	635,120	Oct. 17	2124	497	89	455
Bettini, Gianni, New York, N. Y., assignor to Lyrophone Company, of West Virginia. Phonograph	618,390	Jan. 31	2942	651, 652	86	637
Bettney, Henry A., Carlton, England. Knitting-machine	634,843	Oct. 10	1594	374	89	334
Bettoni, Angelo. (See Camiz and Bettoni.)						
Betts Machine Company. (See Moreton, George W., assignor.)						
Betzold, Adolph, assignor of two-thirds to T. Thorwegen and T. Flack, St. Louis, Mo. Sound-reproducer for talking-machines	633,226	Sept. 19	1950	458	88	2118
Betzoldt, Hugo, Detroit, and O. Schubert, Escanaba, Mich. Pail	638,547	Dec. 5	680	143	89	1996
Betzonick, George, Sydney, New South Wales. Sampler	632,830	Sept. 12	1188	271	88	1959
Bevans, William H., Washington, D. C., assignor to Vickers, Sons & Maxim, Limited, Sheffield, England. Rammer for breech-loading guns	625,240	May 16	2339	533	87	1192
Bevans, William H., assignor to American Ordnance Company, Washington, D. C. Gun-carriage	638,313	Dec. 5	238	49,50	89	1812
Bevel Gear Wheel Company. (See Darling, Robert F., assignor.)						
Bevel Gear Wheel Company. (See Tomlinson, Charles E., assignor.)						
Beveridge, Andrew and S. M., and H. K. Spence, Kirkcaldy, Scotland. Acetylene-gas generator	624,159	May 2	410	83,84	87	778
Beveridge, Samuel M. (See Beveridge and Spence.)						
Beverstock, Edwin J., Washington, D. C. Ore-washer	629,947	Aug. 1	409	89	88	803
Bevin Brothers Manufacturing Company. (See Scranton, Frederick A., assignor.)						
Bevington, John A., Escondido, assignor of one-fourth to C. G. Witt, Poway, Cal. Educational device	624,614	May 9	1229	276	87	961
Bevington, Samuel B. (See Seagrave and Bevington.)						
Bew, Charles, Chicago, Ill. Bicycle-gearing	621,740	Mar. 21	2226	501	86	1959
Beymer, Charles. (See Keeler, Henry C., assignor.)						
Bezer, Henry, New Rochelle, N. Y. Compensator	638,210	Dec. 5	3	1,2	89	1867
Bhise, Atmaram A., Bombay, India. Closure for preventing refilling of bottles or other liquid-holding receptacles	617,629	Jan. 10	1455	332	86	308
Biaggi, Edward. (See Biaggi, Elisa A. de and E.)						
Biaggi, Elisa A. de and E., New York, N. Y. Umbrella	632,630	Sept. 5	756	174	88	1856
Bibb, Charles W. (See Sather, Martin C., assignor.)						
Bible, Frank O., Chippewa Falls, Wis. Thinning attachment for seeding or like machines	636,240	Nov. 7	15	4	89	928
Bicalky, Charles H., Buffalo, N. Y. Blower	629,121	July 18	2194	509	88	465
Bick, Harry, New York, N. Y. Car-fender	637,443	Nov. 21	2351	507	89	1431
Bickel, Frederick L., Philadelphia, Pa. Compression-coupling	625,948	May 30	3630	825	87	1485
Bickelhaupt, George, New York, N. Y. Furnace for heating soldering-irons	637,198	Nov. 14	1887	405	89	1323
Bickelhaupt, George, New York, N. Y. Transom-lifter	639,139	Dec. 12	1735	401	89	2224
Bickerton, Henry N., and H. W. Bradley, Ashton-under-Lyne, England. Oil-engine	640,083	Dec. 26	3496	801	89	2610
Bickford & Huffman Company. (See Baseman, Ernest, assignor.)						
Bickford & Huffman Company. (See Corser, Edson J., assignor.)						
Bickford & Huffman Company. (See Kirkpatrick, George W., assignor.)						
Bickford, John S. V., Camborn, England. Apparatus for effecting combustion of liquid fuel for furnaces or the like	631,612	Aug. 22	3504	789	88	1465
Bickford-Smith, George P., Helstone, England. Composition for detonators	634,716	Oct. 10	1380	------	89	292

Alphabetical list of patentees—Continued.

Name, residence, and invention.	No.	Date.	Monthly volume. Spec.	Monthly volume. Dr'g.	Official Gazette. Vol.	Official Gazette. Page.
Bickford, Thomas, Chicago, Ill. Game	637,699	Nov. 21	3194	063	89	1635
Biddle, Laura, Leicester, England. Toy	636,106	Oct. 31	4042	925	89	857
Biddle Purchasing Company. (See Gardiner, John, assignor.)						
Biddle Purchasing Company. (See Norcross, William M., assignor.)						
Biddle, Robert, Jr. (See Frost and Biddle.)						
Biddle & Smart Company. (See Prescott, Charles H., assignor.)						
Biddle, W. R. (See Bidwell, Alonzo, assignor.)						
Bidwell, Alonzo, assignor of one-third to W. R. Biddle, Fort Scott, Kans. Metallic railway cross-tie	624,892	May 9	1732	391	87	1059
Bidwell, Charles B., and C. L. Curtis, assignors, by mesne assignments, to Nordlinger-Cbarlton Fireworks Company, New York, N. Y. Combustible-stem-making machine	634,195	Oct. 3	386	99, 100	89	79
Bidwell, Charles H., Medina, N. Y. Grain-scouring machine	632,831	Sept. 12	1190	271	88	1959
Bieberstein, Carl, Charlottenburg, Germany. Coin-freed apparatus for distributing electric currents	629,978	Aug. 1	464	100	88	815
Biebuyck, Gustave, Brussels, Belgium. Water-closet	632,631	Sept. 5	756	174	88	1856
Biedinger, Charles G., Carthage, C. G Jenner, guardian, Cincinnati, Ohio. Machine for making bottle-wrappers	639,395	Dec. 19	2239	518	89	2340
Biegus, Ferdinand. (See Cless, George A., assignor.)						
Bielefelder Maschinen-Fabrik, vormals Dürkopp & Co. (See Froböse, Heinrich, assignor.)						
Bielitz, Charles C., New York, N. Y. Time-check for doors	631,034	Aug. 15	2446	555	88	1237
Bieque, Merrill W., Bourvonnais, and A. M. Rivard, Kankakee, Ill. Stove-shelving	636,107	Oct. 31	4043	925	89	857
Bierley, Henry A., Portsmouth, Ohio. Shaft tug or carrier	620,218	Feb. 28	2607	592	86	1371
Bierman, Paul H., *et al.* (See McCabe, James H., assignor.)						
Biermann, Hermann, Breslau, Germany. Means for controlling railway-trains	636,313	Nov. 7	148	32	89	951
Biersach, Max E., Milwaukee, Wis. Machine for making antitacks	630,845	Aug. 15	2091	473, 474	88	1168
Biersach, Max E., Milwaukee, Wis. Stamping-machine	632,548	Sept. 5	636	148	88	1832
Biersach, Paul C., Milwaukee, Wis. Bowling-alley	622,660	Apr. 11	875	201	87	186
Bierstadt, Edward, and T. B. De Vinne, New York, N. Y. Printer's overlay and making same	634,259	Oct. 3	545	136	89	109
Biesel, John, McKeesport, Pa. Non-refillable bottle	632,956	Sept. 12	1412	326	88	2000
Biesmeyer, Lorenz F., Westphalia, Mo. Scholar's companion	632,167	Aug. 29	4516	1016	88	1673
Bigelow, Cbauncey S., assignor to Ransom & Randolph Company, Toledo, Ohio. Dental cabinet	619,928	Feb. 21	2085	473, 474	86	1259
Bigelow, Don J., assignor to S. A. Cook & Co., Medina, N. Y. Chair	632,832	Sept. 12	1191	272	88	1959
Bigelow, Don J., assignor to S. A. Cook & Co., Medina, N. Y. Chair	633,948	Sept. 26	3244	757	88	2386
Bigelow, Don J., assignor to S. A. Cook & Co., Medina, N. Y. Chair	635,644	Oct. 24	3115	716	89	663
Bigelow, Myron J., Hopedale, Mass., assignor to Draper Company, Hopedale, Mass., and Portland, Me. Protector mechanism for looms	618,374	Jan. 24	2883	639	86	610
Bigelow, Myron T. (See Burleigb and Bigelow.)						
Bigelow, William H., Tarpon Springs, Fla. Lubricator	617,554	Jan. 10	1320	297	86	276
Bigger, William M., *et al.* (See Campbell, Thomas W., assignor.)						
Biggs, George F., Searcy, Ark. Hay-press	619,858	Feb. 21	1970	447	86	1238
Biggs, Theodore J., Frome, England, assignor of one-half to W. W. Tucker, Hartford, Conn. Clamping attachment for saddles	628,743	July 11	1503	348	88	314
Bigley, Richard, Toronto, Canada. Heater	630,582	Aug. 8	1644	367	88	1057
Bigney, Sidney O., Providence, R. I. Watch-chain	633,092	Sept. 12	1673	394	88	2052
Bignold, Frederick R., Ewing, Neb. Combination implement	631,247	Aug. 15	2826	637, 638	88	1313
Bigsby, Ethel M., and H. E. Cross, Detroit, Mich.; said Cross assignor to said Bigsby. Garment-hanger	631,102	Aug. 15	2571	581	88	1261
Bilbie, John, and H. Drivet, London, England. Acetylene-gas-generating lamp	629,948	Aug. 1	413	89	88	803
Biles, James. (See Copass and Biles.)						
Bilgram, Hugo, Philadelphia, Pa., assignor, by mesne assignments, to Eastern Paper Bag Company, Hartford, Conn. Paper-bag machine	634,102	Oct. 3	210	53, 54, 55, 56	89	46
Bilisoly, Frank N., *et al.* (See Carraway, Esther P. H., assignor.)						
Billasche, William C. (See Wygal, Frank, assignor.)						
Billaudot, Louis L., Paris, France. Apparatus for making phosphorus	638,548	Dec. 5	681	143	89	1996
Billetop, Torben C., assignor to R. Y. McIntosh, Newcastle-upon-Tyne, England, and E. C. Blechynden, Joppa, Scotland. Tubular steam-boiler	625,314	May 23	2486	564	87	1245
Billing, Frederick. (See Sharp and Billing.)						
Billingham, Francis, New York, N. Y. Gas-lighting attachment	633,983	Oct. 3	6	2	89	4
Billings, Charles E., Hartford, Conn. Machine for nurling metal	637,320	Nov. 21	2122	457	89	1384
Billings, Frank E. (See Lowery and Billings.)						
Billings, James R., Cbicago, Ill., assignor to J. D. Lacey, New Orleans, La. Treating molten iron	625,738	May 30	3229	734	87	1408
Billings, Oscar L., Philadelphia, Pa., assignor to S. W. McMunn, trustee, Chicago, Ill. Thermostatic and electrical ventilating device	631,555	Aug. 22	3403	769, 770	88	1445
Billings & Spencer Company. (See Kelsey, Frank N., assignor.)						
Billingsley, James J., Kinsman, Ohio. Game	630,647	Aug. 8	1761	396	88	1078
Billington, Charles, Attleborough, Mass. Nose-guard for eyeglasses	635,645	Oct. 24	3116	716	89	663
Billman, August W., Stockholm, Sweden. Hose-coupling	636,314	Nov. 7	149	33	89	951
Billman, William A., Grand Junction, Colo. Photographer's printing and embossing press	619,713	Feb. 21	1689	387	86	1183
Billow, Clayton O. and E E., Chicago, Ill. Atomizer	630,320	Aug. 8	1098	240	88	954
Billow, Elmer E. (See Billow, Clayton O. and E. E.)						
Billow, Sberman, San Antonio, Tex. Duplex menu	632,957	Sept. 12	1414	326, 327	88	2001
Bills, Wilmont, assignor to Dowagiac Manufacturing Company, Dowagiac, Mich. Register for grain-drills	627,381	June 20	2173	477	87	2077
Biloon, Louis. (See Lurie and Biloon.)						
Bilyer, William R. (See Carlton, Henry E., assignor.)						
Bilz, John A., Pleasanton, Cal. Cultivator	627,637	June 27	2676	587	87	2192
Bimm, John, Rockford, Ill. Wrapper for hams	635,840	Oct. 31	3501	804	89	751
Binder, Johann, Vienna, Austria-Hungary. Macbine for making paper-box blanks	631,302	Aug. 22	3095	700, 701	88	1383
Bingaman, Mary E., New York, N. Y. Spool and needle holder	632,686	Sept. 5	904	210	88	1889
Bingbamton Washing Machine Company. (See Wearne, Richard L., assignor.)						
Bink, Anthony, Stockton, Cal. Tubular boiler	618,556	Jan. 31	3244	720, 721	86	603
Binley, Henry, Philadelphia, Pa. Salt-cellar	618,833	Feb. 7	28	6	86	809
Binnie, Robert, Boliver, Pa. Drilling-machine	619,125	Feb. 7	623	133	86	933
Binns, William H., Chicago, Ill. Retainer for ball-bearings	620,096	Feb. 28	2383	540	86	1330

Alphabetical list of patentees—Continued.

Name, residence, and invention.	No.	Date.	Monthly volume.		Official Gazette.	
			Spec.	Dr'g.	Vol.	Page.
Binsse, Henry B., New York, N. Y. Gearing	626,884	June 13	1273	278 279	87	1878
Birchard, George H., Lincoln, Nebr. Grain-spout	639,506	Dec. 19	2431	562	89	2378
Birchler, John A., Fort Niobrara, Nebr. Driving mechanism for bicycles	617,873	Jan. 17	1944	436	86	418
Bird, Charles E. (See Honstain and Bird.)						
Bird, Charles E., Minneapolis, Minn., assignor to J. Rosholt, Mayville, N. D. Grain-separator	626,746	June 13	962	218	87	1819
Bird, Charles G., *et al.* (See Graves, Philander H., assignor.)						
Bird, Fletcher M., Wenatchee, Wash. Line-guard for vehicle-poles	622,108	Mar. 28	2918	662	86	2108
Bird, Fletcher M., Wenatchee, Wash. Hanger for grinding stones	626,962	June 13	1398	308	87	1963
Bird, George D., Gunnison, Colo. Fish-screen for artificial waterways	630,769	Aug. 8	1951	440	88	1115
Bird & Son, F. W. (See Wyman, George R., assignor.)						
Birdsall, Edgar M., Buffalo, assignor of one-half to T. S. Kellet, Troy, N. Y. Wheel-rim	627,042	June 13	1535	335	87	1930
Birdsall, Edgar M., assignor to M. B. Birdsall, Buffalo, and H. S. Kellet, Auburn, N. Y. Pneumatic tire	633,679	Sept. 26	2799	652	88	2296
Birdsall, Mary B., *et al.* (See Birdsall, Edgar M., assignor.)						
Bireley, Charles E., and G. A. Simms, Los Angeles, Cal. Newspaper-file	628,430	July 4	893	209	88	172
Birk, Emanuel R., Bucyrus, Ohio. Connector for use in harness	633,975	Sept. 26	3307	770	88	2398
Birk, Gustav, Breslau, Germany. Water-can	630,583	Aug. 8	1645	367	88	1058
Birkby, Charles R., Leesburg, Va. Oscillating propeller	619,714	Feb. 21	1694	387	86	1183
Birkery, Cornelius, assignor to Birkery Manufacturing Company, Hartford, Conn. Tank outlet-valve	635,461	Oct. 24	2795	638	89	601
Birkery Manufacturing Company. (See Birkery, Cornelius, assignor.)						
Birkett, Edward J., assignor to Milwaukee Harvester Company, Milwaukee, Wis. Metal wheel	636,890	Nov. 14	1263	271	89	1204
Birmingham Iron Foundry Company. (See Brewster, Frank H., assignor.)						
Birnie, Alfred. (See Cook, Francis L., assignor.)						
Birney, John, Philadelphia, Pa. Carpet	634,797	Oct. 10	1512	355	89	317
Biron, Moise, Manchester, N. H. Combination-lock	631,980	Aug. 29	4162	935	88	1602
Birrell, George B., New York, N. Y., assignor, by mesne assignments, to Birrell Universal Transmitter Company, of New York. Power-transmitting mechanism	627,382	June 20	2176	478	87	2077
Birrell, George B., assignor to Birrell Universal Transmitter Company, New York, N. Y. Power-transmitter	627,383	June 20	2179	478	87	2078
Birrell Universal Transmitter Company. (See Birrell, George B., assignor.)						
Birsfield, Jules A., Denver, Colo. Folding mine-transit	627,638	June 27	2677	587	87	2192
Bischof, Gustav, London, England. Apparatus for treating white lead	627,895	June 27	3121	684	87	2279
Bischoff, John B. (See Kellam and Bischoff.)						
Bishop, Augustus A., Washington, D. C. Vehicle-wheel	622,593	Apr. 4	739	171	87	140
Bishop, Augustus B., assignor of one-third to T. R. Carraher, Washington, D. C. Pocket-edge protector	623,460	Apr. 18	2324	532	87	485
Bishop, Charles, Knoxville, Cal. Smelting-furnace	623,762	Apr. 25	2846	652	87	602
Bishop, Charles B., assignor to Corbin Cabinet Lock Company, New Britain, Conn. Coin-box	636,947	Nov. 14	1385	295	89	1227
Bishop, Clark. (See Haiman and Bishop.)						
Bishop, Edwin C., Hartford, Conn. Extension-ladder lock	626,264	June 6	77	19	87	1630
Bishop, Edwin C., Hartford, Conn. Extensible trestle	637,847	Nov. 28	3462	723	89	1709
Bishop, George M., Pittsburg, Pa. Locomotive-tender	619,535	Feb. 14	1348	310	86	1093
Bishop, John, Bartow, and A. P. Jerguson, Hull, Fla. Drier	634,798	Oct. 10	1513	355	89	317
Bishop, Joseph H., Chicago, Ill. Prepayment gas-meter	627,290	June 20	1975	435 436	87	2037
Bishop, Marshall M., Evans' Mills, assignor of two-thirds to F. E. Croissant, Antwerp, and H. W. Smith, Sterlingville, N. Y. Car-coupling	616,881	Jan. 3	17	4	86	6
Bishop, Samuel B. (See Dodd, Samuel H., assignor.)						
Bishop, William W., Mount Vernon, Ind. Computing device for scales	618,834	Feb. 7	30	6	86	809
Bisler, Gustav A. (See Peizagno and Bisler.)						
Bisler, Gustav A., Philadelphia, Pa. Paper box	617,457	Jan. 10	1145	261	86	241
Bissell Carpet Sweeper Company. (See Drew, Walter J., assignor.)						
Bissell Carpet Sweeper Company. (See Mason, Francis C., assignor.)						
Bissell, David J. (See Cochran, Walter J., assignor.)						
Bissell, Herbert S., assignor of two-thirds to Page Wire Fence Company, Limited, Walkerville, Canada. Tension and feed mechanism for wire-fabric machines	628,915	July 18	1822	424	88	392
Bitner, Harry, Berwyn, Ill. Stove-lid lifter	632,213	Aug. 29	4608	1038	88	1689
Bitner, Harry, Berwyn, assignor to Arcade Manufacturing Company, Freeport, Ill. Door check and spring	628,916	July 18	1824	424	88	393
Bitner, Harry, Chicago, Ill., assignor to A. L. Baron, Tiffin, Ohio. Guarded can and can-guard	630,443	Aug. 8	1382	310	88	1006
Bixler, Frank P., Fremont, Ohio. Shears	627,090	June 20	1624	355	87	1966
Bjerregaard, August P., Mount Vernon, assignor to C. W. Cooper, New York, N. Y. Making varnish	629,329	July 25	2563	------	88	553
Bjerregaard, August P., assignor to C. W. Cooper, New York, N. Y. Imparting drying properties to varnishes	629,330	July 25	2565	------	88	553
Bjerregaard, August P., assignor to C. W. Cooper, New York, N. Y. Drying-varnish and producing same	629,331	July 25	2566	------	88	553
Bjornsen, John E., Perth Amboy, N. J. Fish-net	619,065	Feb. 7	599	107	86	909
Black, Amos R., Lamar, Colo. Revolving sulky hay-rake	636,746	Nov. 14	993	212	89	1149
Black, Arthur. (See Gamble and Black.)						
Black, Charles W., assignor of one-half to A. P. Timm, Michigan City, Ind. Clevis	630,169	Aug. 1	825	178	88	886
Black & Clawson Company. (See Joslin, Omar T., assignor.)						
Black Diamond Coal Mining Company. (See Mullan, Arthur, assignor.)						
Black, J. H., *et al.* (See Kuhn, Frank P., assignor.)						
Black, James G., Dunedin, and R. C. Skeet, Oamaru, New Zealand. Extracting gold from ores, minerals, or other gold-bearing substances	620,215	Feb. 28	2603	591	86	1370
Black, James M., Waukegan, Ill. Comb-cleaner	632,935	Sept. 12	1379	319	88	1993
Black, John Q., Lone Rock, Wis. Telephone	631,271	Aug. 22	2876	650	88	1340
Black, Ruell C., Gainesville, Tex. Hammock	622,411	Apr. 4	381	87	87	71
Black, Samuel L. (See Searles, Charles P., assignor.)						
Black, Walter, Chicago, Ill. Sandpaper	624,160	May 2	412	84	87	778
Black, Wilbert, New Orleans, La. Grate	626,963	June 13	1399	308	87	1903
Black, William, Jr., Montreal, Canada. Oilstone-box	639,343	Dec. 19	2127	489	89	2317
Black, William D., Braddock, assignor of one-half to A. McKechnie, Wilkinsburg, Pa. Apparatus for cleaning, drilling, and pumping deep wells	635,290	Oct. 24	2425	565	89	529
Blackadar, Charles, assignor of one-half to G. H. Simonds, Lynn, Mass. Heel	634,743	Oct 10	1423	336	89	300
Blackburn, Charles W., Lincoln, Ill. Wine or lard press	621,517	Mar. 21	1814	403	86	1876
Blackburn, James A., West Newton, Pa. Means for attaching gage-wheels or colters	621,741	Mar. 21	2228	501	86	1959
Blackburn, Joseph S., Salem, Ohio. Electric igniter for gas-engines	636,376	Nov. 7	255	56	89	972

Alphabetical list of patentees—Continued.

Name, residence, and invention.	No.	Date.	Monthly volume.		Official Gazette.	
			Spec.	Dr'g.	Vol.	Page.
Blackburn, Thomas, L. (See Fusch, Warnie A., assignor.)						
Blackden, Perry D., Everett, Mass. Water-tube boiler	635,710	Oct. 24	3226	743	89	685
Blacket, Owen, Sydney, New South Wales. Ore-concentrating machine	620,014	Feb. 21	2238	508	86	1287
Blackford, Atwell J., Cleveland, Ohio. Oil-burner	620,840	Mar. 7	558	120	86	1611
Blackford, Atwell J., Cleveland, Ohio. Oil-burner	624,743	May 9	1447	326 / 327	87	1004
Blackford, Atwell J., Cleveland, Ohio. Oil-burner	630,770	Aug. 8	1952	440	88	1116
Blackford, Charles T., *et al.* (See Chapleau, Wildric, assignor.)						
Blackford, Charles T., *et al.* (See Pauli, Emil A., assignor.)						
Blackinton, W. & S. (See Crocker, Walter E., assignor.)						
Blackman, Alfred A., New York, N. Y. Method of and apparatus for electroplating	626,361	June 6	282	64	87	1669
Blackman, Frank E., Albion, Ind. Bicycle-harness	636,108	Oct. 31	4044	925	89	857
Blackman, George L., Coudersport, Pa. Skirt-supporter	634,196	Oct. 3	390	100	89	80
Blackmar, Charles S. (See Brookman and Blackmar.)						
Blackmer, Robert M., Wardner, Idaho. Water-motor	639,011	Dec. 12	1529	350	89	2184
Blackmore, Fred, *et al.* (See Agnew, William C., assignor.)						
Blackmore, Henry S., Mount Vernon, N. Y. Making alkali aluminates	618,772	Jan. 31	3618	------	86	767
Blackmore, James E., Newark, N. J. Flash-light cartridge	619,009	Feb. 7	408	85	86	889
Blacknall, Thomas H., and W. T. Jordan, Atlanta, Ga. Composition for blackboards	638,003	Nov. 28	3768	------	89	1770
Blackstone, George V., Jamestown, N. Y. Reversing mechanism	633,783	Sept. 26	2975	691	88	2332
Blackwell, Henry F., Jr., New York, N. Y. Automatic circuit-closer	618,773	Jan. 31	3620	808	86	768
Blackwell, Henry F., Jr., assignor to M. A. Blackwell, New York, N. Y. Forming dies	630,771	Aug. 8	1955	441	88	1116
Blackwell, Henry F., Jr., and M. A., New York, N. Y.; said Henry F. Blackwell, Jr., assignor to said M. A. Blackwell. Telephone	630,797	Aug. 8	2000	452	88	1126
Blackwell, Maude A. (See Blackwell, Henry F., Jr., assignor.)						
Blackwell, Maude A. (See Blackwell, Henry F., Jr., and M. A.)						
Blades, Leonard J., assignor to National Ticket Case Company, Chicago, Ill. Ticket-case	632,231	Sept. 5	7	2	88	1710
Blades, Leonard J., assignor to National Ticket Case Company, Chicago, Ill. Roll-curtain	638,314	Dec. 5	239	50	89	1912
Blaesius Table Slide Company. (See Boardman, Anson P., assignor.)						
Blaha, Anton, assignor of one-half to J. Thuemling, Chicago, Ill. Steam-engine	632,038	Aug. 29	4270	960	88	1623
Blaine, John E., Jr., assignor to Globe Company, Cincinnati, Ohio. Card-file	633,354	Sept. 19	2194	515	88	2165
Blaine, W. T. (See Yaxley and Cadden, assignors.)						
Blaine, William T. (See Hoff, John A., assignor.)						
Blair, Herman E. (See Haddock, Worcester, assignor.)						
Blair, John, New York, N. Y. Fountain-pen	620,216	Feb. 28	2604	592	86	1371
Blair, John, Springdale, assignor of one-third to C. M. Fassett, Spokane, Wash. Making tannin extracts	616,882	Jan. 3	19	------	86	6
Blair, Thomas B., Neenah, Wis. Punching-machine	626,362	June 6	284	65	87	1669
Blair, Thomas H. (See Johnson, Chester F., assignor.)						
Blair, William, Vallejo, Cal. Gate	617,825	Jan. 17	1856	415	86	400
Blaisdell, William S., Victoria, Fla. Wheel	619,660	Feb. 14	1572	358	86	1134
Blake, Alphonzo F., and E. W. Cox, Cox's Landing, W. Va. Window-shade attachment	630,170	Aug. 1	827	178	88	886
Blake, Andrew S. (See Ward, Elmer E., assignor.)						
Blake, Charles P., Chester, Pa. Gas-engine	631,003	Aug. 15	2378	542	88	1224
Blake, David H., and J. P. Ray, San Antonio, Tex. Composition pulp plaster and manufacturing same	624,446	May 9	915	------	87	901
Blake, George E., *et al.* (See Bell, Carroll M., assignor.)						
Blake, John A., Redlands, Cal. Flume and water-outlet therefor	636,747	Nov. 14	995	212	89	1150
Blake, John F., New Haven, Conn. Coin-operated device	637,700	Nov. 21	3196	663	89	1636
Blake, Millard F., Martinsburg, Pa. Dumping-car	635,646	Oct. 24	3117	717	89	663
Blakely, Samuel H., Troy, Kans. Storm-front for vehicles	626,964	June 13	1400	309	87	1903
Blakeman, Benjamin F., Louisville, Ky. Type-writing machine	623,940	Apr. 25	3221	743	87	674
Blakemore, William H., Boston, Mass. Sash-fastener	617,669	Jan. 10	1528	347	86	317
Blakeslee, John R., assignor to Ajax Manufacturing Company, Cleveland, Ohio. Die and tool for upsetting tubes	633,280	Sept. 19	2041	479	88	2135
Blakesley, Alpheus M., Rock Island, Ill. Stove or furnace	622,752	Apr. 11	1023	238	87	214
Blakesley, Frank S., assignor of one-half to Weyburn & Briggs Company, Rockford, Ill. Twyer-iron	619,010	Feb. 7	410	86	86	890
Blakesley, Gilbert H., Bristol, Conn. Garment-supporter	620,217	Feb. 28	2605	592	86	1371
Blakesley, James E., Chicago, Ill. Adjustable crossover for electric wires	633,182	Sept. 19	1849	435	88	2097
Blakeway, John H. (See Stafford, Charles S., assignor.)						
Blanc, Bridget L., Chicago, Ill. Shoe-tongue	623,350	Apr. 18	2137	491	87	446
Blanchard, Allen I., Chicago, Ill. Ticket holder and cutter	630,026	Aug. 1	566	124	88	835
Blanchard, Frederic W., Holbrook, Mass. Power-transmitting member	632,168	Aug. 29	4517	1017	88	1673
Blanchard, Sidney R. (See Ballard, Casper L., assignor.)						
Blanchard, Sidney R., Ottawa, Ill. Covering for walls	629,100	July 18	2155	500 / 501	88	458
Blanchard, Virgil W., New York, N. Y. Gas-stove	636,710	Nov. 7	877	195	89	1101
Blanchard, Virgil W., New York, N. Y. Cooking-stove	636,711	Nov. 7	880	195	89	1102
Blanchard, Virgil W., New York, N. Y. Heating-stove	636,712	Nov. 7	883	196	89	1103
Blanchard, William R., L. Matthews, and C. Watkins, Merkel, Tex. Listing-machine	633,303	Sept. 19	2077	487	88	2142
Blandford, Charles G., Sing Sing, N. Y. Ice-creeper	618,774	Jan. 31	3621	808	86	768
Blaney, Cyril C., *et al.* (See Morse, Myron E., assignor.)						
Blank, Charles A., Berkeley, Cal. Child's bib	632,863	Sept. 12	1241	284	88	1969
Blank, Rubin, Berlin, assignor to L. Cassella & Co., Frankfort-on-the-Main, Germany. Amido malonic ester and making same	620,562	Mar. 7	7	------	86	1504
Blank, Ruben, assignor to L. Cassella & Co., Frankfort-on-the-Main, Germany. Obtaining indoxylic compounds of amido malonic esters	620,563	Mar. 7	8	------	86	1504
Blanke, Hermann J. L., Chicago, Ill. Device for receiving memoranda	619,661	Feb. 14	1573	359	86	1134
Blankenship, John R., Houston, Mo. Insect-trap	632,632	Sept. 5	757	174	88	1856
Blashfield, James M., Jackson, Mich. Adjustable handle-bar for bicycles	619,126	Feb. 7	625	134	86	933
Blasius, John, Union Hill, assignor to T. T. Wiseman, Weehawken, N. J. Sash-lock	629,147	July 18	2243	520	88	474
Blatz, Louis, La Mirada, Cal. Fruit-press	621,773	Mar. 21	2293	515	86	1971
Blaze, Robert W. (See Carle and Blaze.)						
Blazo, Augustus W., and H. W. Bell, New York, N. Y. Plaster-board	638,493	Dec. 5	590	122	89	1979
Bleam, Charles, Philadelphia, Pa. Shoe tree or jack	619,127	Feb. 7	627	134	86	934
Blechschmidt, Charles E., Bellevue, Ky., assignor to Victor Safe and Lock Company, Cincinnati, Ohio. Screw-door safe	622,753	Apr. 11	1024	238	87	215
Blechschmidt, Charles E., Bellevue, Ky., assignor to Victor Safe and Lock Company, Cincinnati, Ohio. Screw-door safe	629,764	Aug. 1	10	3	88	723
Blechschmidt, Charles E., Bellevue, Ky., assignor to Victor Safe and Lock Company, Cincinnati, Ohio. Screw-door safe	635,291	Oct. 24	2427	566	89	529
Blechschmidt, Charles E., Bellevue, Ky., assignor to Victor Safe and Lock Company, Cincinnati, Ohio. Multiple metal-grinder	635,292	Oct. 24	2428	566	89	529

Alphabetical list of patentees—Continued.

Name, residence, and invention.	No.	Date.	Monthly volume. Spec.	Monthly volume. Dr'g.	Official Gazette. Vol.	Official Gazette. Page.
Blechschmidt, Paul O., Rock Island, Ill. Wheel-plow	627,091	June 20	1625	355, 356	87	1966
Blechynden, Elizabeth C., *et al.* (See Billetop, Torben C., assignor.)						
Bleckley, E. E. (See Hinkle, George A., assignor.)						
Bléha, William V., assignor of two-thirds to C. E. Hannauer and C. E. Seeger, St. Louis, Mo. Door-stop	633,979	Sept. 26	3318	772	88	2400
Bléha, William V., assignor of two-thirds to O. F. Stifel and G. A. Pleus, St. Louis, Mo. Breech-loading firearm	633,949	Sept. 26	3246	757, 758	88	2386
Bleidt, Peter, Little Rock, Ark. Carbon-clutch bracket	636,621	Nov. 7	703	153	89	1064
Blenner, Benjamin A., Richmond, Va. Brazing-machine	632,169	Aug. 29	4520	1017, 1018	88	1673
Blessing, Charles W., *et al.* (See Smith, Walter L., assignor.)						
Blessing, James H., Albany, N. Y. Automatic steam-trap	618,263	Jan. 24	2691	596	86	573
Blessinger, Hermann, Magdeburg, Germany. Water-tube boiler	637,701	Nov. 21	3197	663	89	1636
Blessinger, Hermann, Magdeburg, Germany. Water-tube boiler	639,507	Dec. 19	2432	562	89	2378
Bletsch, W. E. (See Graf and Keck, assignors.)						
Blevins, John, Boston, Mass. Self-closing gas-valve	639,344	Dec. 19	2128	490	89	2318
Blevins, William R., Cardiff, Tenn. Fan attachment	628,744	July 11	1504	348	88	314
Bleyer, Samuel T. (See Hutchison, Richard, assignor.)						
Blickenderfer, Richard. (See Rote, Charles V., assignor.)						
Blickensderfer, George C., Stamford, Conn. Type-writing machine	621,742	Mar. 21	2230	502, 503, 504	86	1959
Blish, John B. (See Tanner and Blish.)						
Bliss, Charles A., assignor of one-half to F. N. Livingston & Company, Haverhill, Mass. Device for securing rands to heels	629,148	July 18	2245	520	88	474
Bliss, Donald M., assignor to Holtzer-Cabot Electric Company, Brookline, Mass. Telephone signaling system	619,662	Feb. 14	1575	359	86	1135
Bliss, Dwight J., Carthage, Mo. Gravity water-filter	630,846	Aug. 15	2095	474	88	1169
Bliss, Dwight J., and E. J. Richmond, Carthage, Mo.; said Richmond assignor to said Bliss. Water-filter	628,517	July 11	1071	250	88	226
Bliss, Ebenezer M., Tacoma, Wash. Stump-pulling machine	623,068	Apr. 11	1579	364	87	322
Bliss, George H., Boston, Mass. Fastening device for boxes, tubs, &c	625,963	May 30	3667	832	87	1492
Bliss, Henry H., Washington, D. C. Mining-machine	635,909	Oct. 31	3639	839, 840	89	778
Bliss, Henry H., Washington, D. C. Rock or coal drilling or other machine	636,748	Nov. 14	996	213	89	1150
Bliss, Hiram, Taunton, assignor of one-half to W. T. Place, Dighton, Mass. Sash-lock	617,630	Jan. 10	1457	332	86	308
Bliss, John L., New York, N. Y. Rotator for ships' logs	626,406	June 6	363	85	87	1684
Bliss, William L., New York, N. Y. Driving mechanism for dynamos on car-trucks	627,291	June 20	1979	436	87	2038
Blocher, John, Franklin Grove, Ill. Roofing	633,984	Oct. 3	7	2	89	4
Block, Gustav H., London, England. Preparation of surfaces for planographic printing	622,879	Apr. 11	1262	------	87	258
Block, Louis, New York, N. Y. Refrigerating-machine	623,270	Apr. 18	1993	457	87	418
Block, Wesley S. (See Moss, Lincoln, assignor.)						
Blocker, William J., Lyons, Tex. Sod or turf cutting attachment for plows	618,533	Jan. 31	3200	708	86	685
Blodget, Charles W., New York, N. Y. Photographic washing apparatus	628,917	July 18	1825	424, 425	88	393
Bloes, Wilton S. (See Harloe and Bloes.)						
Blood, Charles W. H. (See Woods, Tillison, and Blood.)						
Blood, Clarence C. (See Blood, Maurice E. and C. C.)						
Blood & Hale. (See Blood and Merrick, assignors.)						
Blood, John B., Newburyport, and F. A. Merrick, Newton; said Blood assignor and said Merrick assignor of two-thirds to Blood & Hale, Boston, Mass. Automatic controlling system for electromotive devices	632,039	Aug. 29	4273	961	88	1624
Blood, Maurice E. and C. C., assignors to Kalamazoo Cycle Company, Kalamazoo, Mich. Velocipede and carrier	625,377	May 23	2596	591	87	1266
Bloodgood, James, Brightwood, and J. G. O'Donnell, Leon, Va. Grubbing-machine	638,169	Nov. 28	4088	862	89	1831
Bloomberg, William. New York, N. Y. Suspender-end	622,594	Apr. 4	740	171	87	141
Bloomfield, Arthur S. (See Barnes, George, assignor.)						
Blossom, Herbert, New York, N. Y. Saddle for velocipedes	620,881	Mar. 14	640	140, 141	86	1640
Blot, Alphonse, Paris, France. Rotary motor with conjugate helices	631,691	Aug. 22	3632	818, 819	88	1491
Blount, Blanton E., and B. R. Guice, Grapeland, Tex. Harrow	633,563	Sept. 26	2573	603	88	2254
Blue, Charles E., Wheeling, W. Va. Machine for manufacturing glassware	617,947	Jan. 17	2074	465	86	445
Blue, Charles E., Wheeling, W. Va. Machine for manufacturing glassware	617,948	Jan. 17	2078	466	86	445
Blue, Charles E., Wheeling, W. Va. Machine for manufacturing glassware	617,949	Jan. 17	2080	466, 467	86	446
Blue, Charles E., Wheeling, W. Va. Machine for manufacturing glassware	617,950	Jan. 17	2083	467, 468	86	447
Blue, Charles E., assignor of one-half to A. G. Hubbard and L. V. Blue, Wheeling, W. Va. Glass-dipping machine	631,195	Aug. 15	2721	616	88	1292
Blue, Charles E., assignor of one-half to A. G. Hubbard and L. V. Blue, Wheeling, W. Va. Molding and delivering molten glass from tanks to molds	631,196	Aug. 15	2724	616, 617	88	1293
Blue, Dennis S., Fremont, Ohio. Cultivator	628,745	July 11	1506	349	88	314
Blue, Frederick K., assignor to Pelton Water Wheel Company, San Francisco, Cal. Water-wheel bucket	617,555	Jan. 10	1321	297	86	276
Blue, Louis V., *et al.* (See Blue, Charles E., assignor.)						
Blum, Ferdinand, assignor to Pharmaceutisches Institut Ludwig Wilhelm Gans, Frankfort-on-the-Main, Germany. Thyroid extract	636,891	Nov. 14	1264	------	89	1204
Blum, Joseph, Chicago, Ill. Dumping-wagon	617,476	Jan. 10	1176	268	86	248
Blum, Leon, *et al.* (See Lewis, George H., assignor.)						
Blum, Robert, Corpus Christi, Tex. Dental plugger	618,324	Jan. 24	2792	619	86	593
Blum, Sylvain. (See Eldridge and Blum.)						
Blum, Sylvain. (See Eldridge, Clark, and Blum.)						
Blumenberg, Henry, Jr., New York, N. Y. Battery solution	625,015	May 16	1942	------	87	1118
Blumenberg, Henry, Jr., New York, N. Y. Compound for battery solutions	626,046	May 30	3871	------	87	1529
Blumenberg, Henry, Jr., New York, N. Y. Electric-battery compound	637,071	Nov. 14	1620	------	89	1273
Blumenberg, Henry, Jr., New York, N. Y. Battery compound	638,039	Nov. 28	3836	------	89	1784
Blumenberg, Henry, Jr., New York, N. Y. Battery compound	638,040	Nov. 28	3837	------	89	1784
Blumenberg, Henry, Jr., New York, N. Y. Battery compouud	638,041	Nov. 28	3837	------	89	1784
Blumenberg, Henry, Jr., New York, N. Y. Battery compound	638,042	Nov. 28	3838	------	89	1784
Blumenberg, Henry, Jr., New York, N. Y., assignor to W. Ferguson, Stamford, Conn. Storage or secondary battery	624,744	May 9	1452	------	87	1006
Blumenberg, Henry, Jr., and F. C. Overbury, New York, N. Y. Electric battery	637,072	Nov. 14	1621	351	89	1273
Blumenberg, Henry, Jr., and F. C. Overbury, New York, N. Y. Primary battery	638,038	Nov. 28	3835	806	89	1783

· *Alphabetical list of patentees*—Continued.

Name, residence, and invention.	No.	Date.	Monthly volume. Spec.	Monthly volume. Dr'g.	Official Gazette. Vol.	Official Gazette. Page.
Blumenberg, Julius, Martin's Ferry, Ohio. Combined cithern, case, and table	621,020	Mar. 14	916	199	86	1691
Blumenthal, Jacob, Philadelphia, Pa. Button-loop	617,074	Jan. 3	414	101	86	80
Bluthenthal, Herbert C., Pine Bluff, Ark. Tailor's measure	629,025	July 18	2012	468	88	429
Blynt, Herbert S., Braddock, Pa. Non-refillable bottle	624,161	May 2	413	85	87	779
Blythe, Robert S., *et al.* (See Moore, John T., assignor.)						
Blything, Robert S., Walton, N. Y. Easel attachment	631,483	Aug. 22	3257	740	88	1416
Boak, Theodore A., *et al.* (See Campbell, George L., assignor.)						
Boal, Stanhope, Piqua, Ohio. Stove-frame and jig for finishing same	621,021	Mar. 14	917	199	86	1691
Boal, Stanhope, Piqua, Ohio. Stove-door and jig for finishing same	621,022	Mar. 14	919	200	86	1691
Boardman, Anson P., assignor to Blaesius Table Slide Company, Watertown, Wis. Extension-table slide	626,747	June 13	965	219	87	1819
Boardman, James H., Port Huron, Mich. Time cut-out for electric lamps	624,615	May 9	1231	276	87	961
Boardman, Orland W. (See Duncan, Charles N., assignor.)						
Boas, Feodor, St. Hyacinthe, Canada. Composition of matter for wall-plaster, &c	626,481	June 6	486	------	87	1708
Boas, Hans, Berlin, Germany. Rotary circuit-breaker	625,921	May 30	3591	815	87	1477
Boas, Niels C., New York, N. Y. Display-stand for children's headwear	621,023	Mar. 14	919	200	86	1692
Boatenreiter, Benjamin W., assignor of one-half to W. J. Wood, Atlanta, Ga. Stop and waste cock	629,648	July 25	3156	735	88	669
Bobo, Albert E. (See Earl, Hugh, Jr., assignor.)						
Bochet, Georges S. J. B. (See Faye and Bochet.)						
Böck, Emil, Oberhausen, Germany. Mold for blanks for making conical metal tubes	634,160	Oct. 3	332	84	89	69
Bock, James H., Sherman Heights, assignor to P. S. Griffith, Chattanooga, Tenn. Cigarette-former	626,265	June 6	78	19	87	1630
Böcking, Rudolph, Halbergerhütte, Germany. Gas-generator	620,409	Feb. 28	2928	670	86	1433
Böckmann, Heinrich, Gladbeck, Germany. Brake and safety device for pulleys	620,410	Feb. 28	2928	671	86	1433
Bodam, John, McFall, Mo. Rotary engine	626,216	June 6	4	1,2	87	1615
Boden, Edmund P., Santa Clara, Cal. Tree or vine puller. (Reissue)	11,747	June 13	1608	351	87	1944
Bodenstein, Henry, Staatsburg, N. Y. Ice-marker	624,162	May 2	414	85	87	779
Bodenstein, John G., Staatsburg, N. Y. Ice plow or marker	621,598	Mar. 21	1955	437	86	1905
Bodinus, Charles F., Austin, Ill. Cash-carrier	636,315	Nov. 7	150	33	89	951
Bodinus, Charles F., Austin, Ill. Receiving-terminal for pneumatic-despatch systems	638,409	Dec. 5	426	89	89	1947
Bodley, James W. (See Mallon, James, assignor.)						
Bodmer, Rudolf, and J. Schwarzenbach, Zurich, Switzerland. Apparatus for separating liquids from fibrous materials	626,523	June 6	559	129	87	1722
Bodwell, George A., *et al.* (See Stimpson, William H., assignor.)						
Bodwell, Sanford, Providence, R. I. Belt-buckle	629,486	July 25	2864	666	88	613
Body, Michel, Brussels, Belgium. Treating sulfureted ores	625,433	May 23	2697	------	87	1285
Body, Michel, Brussels, Belgium, assignor to O. Meurer, Cologne, Germany. Combustion of liquid hydrocarbons	630,282	Aug. 1	1014	223	88	923
Boeck, Charles H., assignor to Novelty Manufacturing Company, Jackson, Mich. Vapor-stove	617,694	Jan. 10	1583	357 / 358	86	327
Boeck, Charles H., assignor to Novelty Manufacturing Company, Jackson, Mich. Oil-stove	617,695	Jan. 10	1584	358	86	328
Boeck, Charles H., assignor to Novelty Manufacturing Company, Jackson, Mich. Portable knockdown oven	617,696	Jan. 10	1586	358 / 359	86	328
Boeck, Charles H., assignor to Novelty Manufacturing Company, Jackson, Mich. Feeding attachment for oil-stoves	617,697	Jan. 10	1588	359	86	328
Boeck, Charles H., assignor to Novelty Manufacturing Company, Jackson, Mich. Corner-piece for knockdown structures	617,698	Jan. 10	1591	359	86	329
Boehl, Charles H., Grand Island, Nebr. Device for proving addition	626,524	June 6	560	129	87	1722
Boehler, Martin, assignor to L. Cassella & Co., Frankfort-on-the-Main, Germany. Dyeing dark blue	625,717	May 23	3178	------	87	1380
Boehm, Charles J., Milwaukee, Wis. Tellurian	637,226	Nov. 21	1945	415	89	1349
Boehme, Louis A., Chicago, Ill. Fire-escape	632,692	Sept. 12	925	216	88	1904
Boehringer, Julia A., Covington, Ohio. Splasher for washtubs	622,595	Apr. 4	741	171	87	141
Boehringer & Soehne, C. F. (See Ach, Fritz, assignor.)						
Boehringer & Soehne, C. F. (See Fischer, Emil, assignor.)						
Boehringer, Sohn C. H. (See Dreher, Carl, assignor.)						
Boeing, Leo O., Bad Nauheim, Germany. Kiln for burning fire-brick, &c	635,647	Oct. 24	3118	717	89	663
Böekelmann, Ludwig F. G., assignor of one-half to A. Miekley, Davenport, Iowa. Metallic window-shutter	631,484	Aug. 22	3259	741	88	1416
Boemermann, Henry. (See Markgraf and Boemermann.)						
Boening, Ernest, assignor of three-fourths to W. D. Baldwin, Yonkers, and J. H. Walling, New York, N. Y. Measuring-faucet	623,302	Apr. 18	2049	470	87	429
Boerem, Mary A., administratrix. (See Lane, John M.)						
Boes, Franz, Dusseldorf, Germany. Apparatus for producing crystal ice	617,849	Jan. 17	1893	422	86	409
Boes, Hubert A., Kevelaer, Germany. Means for propelling and steering vessels	638,211	Dec. 5	7	2,3	89	1868
Boettcher, Charles H., Lincoln, Nebr. Animal-trap	623,870	Apr. 25	3093	712	87	650
Boettcher, Otto, Charlottenburg, Germany. Acetylene-gas generator	634,869	Oct. 17	1650	388	89	361
Boettiger, Herman C., and O. Schlueter, Woodland, Cal. Laying-out or embalming board	622,322	Apr. 4	221	50	87	42
Boettler, Adolph, *et al.* (See Farmer, John R., assignor.)						
Bofinger, Eugen A., New York, N. Y. Type-writer ciphograph	630,847	Aug. 15	2095	475	88	1169
Bofinger, Eugen A., New York, N. Y. Type-writer ciphograph	630,848	Aug. 15	2097	475 / 476	88	1169
Bogard, William C., assignor of one-half to W. E. Glover, Charleston, Mo. Nut-lock	620,219	Feb. 28	2608	592	86	1371
Bogart, Adrian L., assignor to W. B. M. Jordan, New York, N. Y. Igniting device for gas-burners	623,871	Apr. 25	3094	713	87	650
Bogart, Charles W., Buffalo, N. Y. Gas-engine	628,518	July 11	1072	250 / 251	88	226
Bogenshott, John, *et al.* (See Painter, Carl T., assignor.)						
Bogisch, Alfred, assignor to Firm of J. Hauff, Feuerbach, Germany. Photographic developer and process of developing	619,066	Feb. 7	511	------	86	910
Bogle, William L., assignor to N. Cayce, Columbus, Miss. Clevis	633,334	Sept. 19	2158	505	88	2159
Bogren, Axel F., Malmö, Sweden. Dental operating-chair	624,425	May 2	872	197	87	869
Bogue, Ralph F., *et al.* (See Behrer, Lewis J., assignor.)						
Bogue, William E., *et al.* (See Behrer, Lewis J., assignor.)						
Boguszewski, Alexsander, Pszeneczniki, Russia. Apparatus for separating or sorting grain, &c	627,970	July 4	21	4	88	6
Bohannan, Jenetta V., Baltimore, Md. Machine for tagging plug-tobacco	628,746	July 11	1510	350 / 351	88	315
Bohannan, Jenetta V., Baltimore, Md. Machine for tagging plug-tobacco	634,321	Oct. 3	669	161 / 162	89	134
Bohlander, John F. (See Gailey and Bohlander.)						
Bohle, Max L. A., Hamburg, Germany. Registering apparatus	627,971	July 4	22	5	88	7
Bohls, Henry, San Francisco, Cal., assignor to Economy Packing Machine Company, of New Jersey. Wrapping-machine	620,637	Mar. 7	161	34 / 35 / 36	86	1533

Alphabetical list of patentees—Continued.

Name, residence, and invention.	No.	Date.	Monthly volume.		Official Gazette.	
			Spec.	Dr'g.	Vol.	Page.
Böhm, Ludwig K., New York, N. Y., assignor to Electro Gas Company, of West Virginia. Carbid-furnace	630,966	Aug. 15	2320	528	88	1213
Bohn, Gebhard C. (See Ames, John H., assignor.)						
Bohn, René, Mannheim, assignor to Badische Anilin and Soda Fabrik, Ludwigshafen, Germany. Yellow dye and making same	623,069	Apr. 11	1582	------	87	323
Bohn, René, Mannheim, assignor to Badische Anilin and Soda Fabrik, Ludwigshafen, Germany. Blue dye	627,896	June 27	3122	------	87	2279
Bohn, René, Mannheim, assignor to Badische Anilin and Soda Fabrik, Ludwigshafen, Germany. Black dye and making same	631,613	Aug. 22	3504	------	88	1466
Bohn, René, Mannheim, assignor to Badische Anilin and Soda Fabrik, Ludwigshafen, Germany. Naphthazarin intermediate dye and making same	631,614	Aug. 22	3506	------	88	1466
Bohn, René, Mannheim, assignor to Badische Anilin and Soda Fabrik, Ludwigshafen, Germany. Blue dye and making same	632,170	Aug. 29	4523	------	88	1674
Bohn, René, Mannheim, assignor to Badische Anilin and Soda Fabrik, Ludwigshafen, Germany. Green-blue dye and making same	633,950	Sept. 26	3249	------	88	2387
Bohner, Charles A. (See Bohner, Philip H. and C. A.)						
Bohner, Joseph E. (See Dellone, Fred C., assignor.)						
Bohner, Philip A., Peckville, Pa., and C. A. Bohner, Paducah, Tex. Chain pipe-wrench	640,084	Dec. 26	3496	802	89	2610
Bohrisch, Richard, Chicago, Ill. Sash-cord fastener	632,864	Sept. 12	1242	284	88	1969
Bohy, Emile G., Nyon, Switzerland. Match	622,109	Mar. 28	2920	------	86	2108
Boidin, Auguste. (See Collette and Boidin.)						
Boig, James H., Liverpool, England. Game apparatus	626,853	June 13	1183	263	87	1861
Boimare, Pierre, Paris, France. Manufacturing or other furnace	620,097	Feb. 28	2384	540	86	1331
Boissier, Hermann R., New York, N. Y. Plating-machine	628,686	July 11	1405	327	88	292
Bokel, Gottlieb F., South Easton, Pa. Bung	628,747	July 11	1516	351	88	315
Bolan, William, Jr. (See Hewson, Edward M., assignor.)						
Bolds, Daniel P. (See Christen, Eugene, assignor.)						
Bolds & Vogel, *et al.* (See Prokov, Friedrich W., assignor.)						
Bolens, Harry W., Port Washington, Wis. Chair	632,775	Sept. 12	1078	249	88	1936
Bolens, Harry W., Port Washington, Wis. Grinding-machine	636,192	Oct. 31	4197	964	89	889
Bolens, Harry W., Port Washington, Wis. Chair	639,012	Dec. 12	1530	350	89	2184
Boles, Warren H. (See Rowlands, John R., assignor.)						
Boles, Warren H., and E. Laass, Syracuse, N. Y. Fire-protective shutter	622,754	Apr. 11	1026	239	87	215
Boley, Benjamin, New York, N. Y. Handle for demijohns or the like	626,407	June 6	364	85	87	1684
Bolinski, Herman J., New London, Wis. Stock feeder and waterer	632,171	Aug. 29	4523	1018	88	1674
Boll, Charles S. (See Reigart, Jacob, assignor.)						
Boll, Charles S. (See Reigart and Boll.)						
Boller, William N. (See Shoup and Boller.)						
Bolling, Charles R., Chicago, Ill., assignor of one-half to C. Sintz, Grand Rapids, Mich. Incandescent igniter for explosive-engines	619,384	Feb. 14	1094	247	86	1043
Bollinger, Albert, Newark, N. J. Truss	624,902	May 16	1754	396	87	1082
Bolls, William W., Washington, D. C. Filter	621,317	Mar. 21	1464	324	86	1811
Bolser, George W., Lockland, Ohio. Trolley	638,697	Dec. 12	976	218	89	2076
Bolsinger, Cyrus W., Homestead, Pa. Liquid counterbalance for tools	629,101	July 18	2158	501	88	458
Bolte, Otto, Dortmund, Germany. Machine for manufacturing railway-spikes	638,315	Dec. 5	242	50	89	1913
Bolton, Charles W., Philadelphia, Pa. Window	629,419	July 25	2727	633 634	88	587
Bolton, Joseph R., Lebanon Junction, Ky. Pinless clothes-line	632,889	Sept. 12	1309	300	88	1979
Bolton, Reginald P., New York, N. Y. Condensing attachment for exhaust-pipes	624,616	May 9	1232	276	87	962
Bolus, Edward A., Hamilton, Canada. Bicycle	633,784	Sept. 26	2977	691	88	2332
Boma, John, assignor of one-half to C. A. Webster, Rochester, N. Y. Voting-machine	635,273	Oct. 17	2384	556 557	89	504
Boman, Claes W., assignor to Eagle Pencil Company, New York, N. Y. Fountain-pen	618,385	Jan. 24	2927	646	86	620
Boman, Claes W., New York, N. Y., assignor to Eagle Pencil Company, of New York. Fountain-pen	632,633	Sept. 5	758	174	88	1857
Bomberger, Cyrus, Canton, Ohio. Cover for locks for street letter-boxes	626,266	June 6	79	20	87	1630
Bomm, William H., Westwood, N. J. Rope-clamp	623,130	Apr. 18	1728	400	87	364
Bommarius, Frederick, New Orleans, La. Tube-cleaner for steam-boilers	625,241	May 16	2340	533 534	87	1192
Bommarius, Frederick, New Orleans, La. Water-filter	639,140	Dec. 12	1737	401	89	2225
Bommarius, Frederick, assignor to F. H. Bommarius, New Orleans, La. Filter	632,091	Aug. 29	4372	983	88	1643
Bommarius, Frederick H. (See Bommarius, Frederick, assignor.)						
Bommer, Emil. (See Sandstrom and Bommer.)						
Bommer, Emil, New York, N. Y. Spring-hinge	636,948	Nov. 14	1387	295	89	1227
Bonar, David M., Plainview, Oreg. Plug-tobacco prier	638,087	Nov. 28	3907	822	89	1798
Bond, Archibald C. T. (See Goodchild and Bond.)						
Bond, George R., Lithonia, Ga. Fluid-motor	624,163	May 2	415	85	87	779
Bond, John, Turlock, Cal. Aerial railway	619,536	Feb. 14	1349	310	86	1093
Bond, John, Coulterville, Cal. Match-safe	629,649	July 25	3157	736	88	670
Bond, Nathan O., Hyannis, Mass. Egg-boiling device	623,200	Apr. 18	1864	426	87	391
Bond, William A., trustee. (See Wadsworth, Frank L. O., assignor.)						
Bonde, Axel, *et al.* (See Engwall, Oscar F., assignor.)						
Bone, Charles S., Lineville, Iowa, assignor of one-half to D. F. Bone, Albany, Mo. Sickle for harvesters	637,848	Nov. 28	3463	723	89	1710
Bone, David F. (See Bone, Charles S., assignor.)						
Bone, James A. (See McCrory, John A., assignor.)						
Bonfils, Frederick G., Denver, Colo. Thread-cutting sewing-thimble	633,635	Sept. 26	2722	634	88	2280
Bonfils, Frederick G., and J. D. Alkire, Jr., Denver, Colo. Electrode for electric belts	631,733	Aug. 22	3723	836	88	1507
Bongfeldt, Charles. (See Levin and Bongfeldt.)						
Bonham, Dona. (See Kintner and Bonham.)						
Bonham, William, assignor of one-half to T. W. Newell, Blue Ridge, Ga. Car-fender	633,636	Sept. 26	2723	634	88	2280
Böniger, Melchior, and J. Lagutt, assignors to Chemische Fabrik, vormals Sandoz, Basle, Switzerland. Green trisazo dye and making same	627,679	June 27	2741	------	87	2204
Bonnell, Elliott M., Corry, Pa. Couch	630,967	Aug. 15	2321	528	88	1213
Bonnell, William P., Jr. (See Berry and Bonnell.)						
Bonner, Joseph C., Toledo, Ohio. Means for transportation	622,323	Apr. 4	223	50	87	43
Bonney, Walter, Utica, N. Y. Finger-exercising machine	623,592	Apr. 25	2578	590	87	552
Bonney, William, Linwood, Mass. Mule-spinning machine	617,141	Jan. 3	546	129 130	86	107
Bonniksen, Bahne, Coventry, England. Speed-indicator	638,903	Dec. 12	1330	302	89	2146
Bonnlender, Egidius, and A. Herkert, Beaver Dam, Wis. Mop-wringer	626,267	June 6	80	20	87	1630
Bonnot, August, Bucyrus, Ohio. Clay-cutting machine	635,741	Oct. 31	3308	763 764	89	713
Bonta Glass Pipe and Conduit Company. (See Bonta, James W., assignor.)						
Bonta, James W., Wayne, assignor to Bonta Glass Pipe and Conduit Company, Scranton, Pa. Process of and apparatus for manufacturing glass pipe	627,092	June 20	1629	356 357	87	1967

Alphabetical list of patentees—Continued.

Name, residence, and invention.	No.	Date.	Monthly volume. Spec.	Monthly volume. Dr'g.	Official Gazette. Vol.	Official Gazette. Page.
Bonta, James W., Wayne, assignor to Bonta Glass Pipe and Conduit Company, Scranton, Pa. Apparatus for making glass pipe	627,093	June 20	1631	357	87	1968
Bonta, James W., Wayne, assignor to Bonta Glass Pipe and Conduit Company, Scranton, Pa. Apparatus for making glass pipe	627,094	June 20	1633	357 358	87	1968
Bonta, James W., Wayne, assignor to Bonta Glass Pipe aud Conduit Company, Scranton, Pa. Pipe-core	639,508	Dec. 19	2434	562	89	2379
Bonta, James W., Wayne, assignor to Bonta Glass Pipe and Conduit Company, Scranton, Pa. Apparatus for manufacturing glass pipe	639,509	Dec. 19	2435	562 563	89	2379
Bonta, Thomas G., Harrodsburg, Ky. Wire fence	631,272	Aug. 22	2877	650	88	1340
Bonwick, William P., assignor to Patent "Barb" Bottle Stopper Syndicate, Limited, London, England. Bottle-stopper	623,070	Apr. 11	1583	365	87	323
Boock, John. (See Andrews, William S., assignor.)						
Book, Helena A., Waterbury, assignor of one-half to G. E. Doolittle, Bridgeport, Conn. Curtain-stretcher	632,867	Sept. 12	1247	285	88	1970
Booker, Frederick, assignor of one-half to J. Peschek, London, England. Electric-arc lamp	629,979	Aug. 1	466	101	88	815
Booker, John, Hamilton, Canada. Hot-air furnace	639,510	Dec. 19	2436	563	89	2379
Booker, William B., and G. D. Warren, Victor, Colo.; said Warren assignor to said Booker. Boiler-cleaner	628,388	July 4	819	190	88	157
Bookhout, Edward, Cranford, N. J. Plumber's tack	622,199	Apr. 4	6	2	87	4
Boon, Nicolaas J., *et al.* (See Tienhoven, Baltazar W., assignor.)						
Boone, Charles H. (See Day and Bryan, assignors.)						
Boone, Daniel, *et al.* (See Hamann, Richard W., assignor.)						
Boone, John L., San Francisco, Cal. Fly-trap	638,438	Dec. 5	483	98	89	1959
Boor, Daniel H., assignor of one-half to L. W. Houk, Tippecanoe, Ohio. Washing-machine	639,885	Dec. 26	3125	719	89	2533
Booraem, William E., New York, N. Y. Gas-burner	633,259	Sept. 19	2008	471	88	2129
Boorer, Isidor, New York, N. Y. Jeweler's heating and lighting burner	625,242	May 16	2341	534	87	1192
Boot, Johannes C., New York, N. Y. Dyeing hair	629,231	July 18	2373	------	88	498
Boot, Jobannes C., Klatten, Java. Decolorizing vegetable juices	633,785	Sept. 26	2978	------	88	2332
Boote, Arthur J., and H. G. W. Kittredge, assignors, by mesne assignments, of one-third to F. H. Steel, Toledo, Ohio. Treating hydrocarbon oils for removing sulfur compounds.	620,882	Mar. 14	643	------	86	1641
Booth, Charles S., assignor to Oakland Iron Works, Oakland, Cal. Safety suction-valve for pumps	627,454	June 20	2315	510	87	2104
Booth, Henry W., Detroit, Mich. Coffin	619,929	Feb. 21	2087	474	86	1259
Booth, Irving E., assignor of one-half to Q. W. Booth, Rochester, N. Y. Beading-machine	623,872	Apr. 25	3096	713	87	650
Booth, James. (See Whitmore, Nathaniel G., assignor.)						
Booth, John, Central Falls, R. I. Spindle and bearing	619,930	Feb. 21	2088	474	86	1259
Booth, John, Central Falls, R. I. Spinning-ring	630,584	Aug. 8	1646	368	88	1058
Booth, Quentin W. (See Booth, Irving E., assignor.)						
Booth, Quentin W., Rochester, N. Y. Hammering mechanism for beading-machines	624,426	May 2	874	197	87	869
Bootsman, Theodore, Artic, Wash. Miter-box	624,745	May 9	1452	327 328	87	1006
Bootsman, Theodore, Artic, Wash. Miter-box	638,620	Dec. 5	818	176	89	2022
Bopp, Robert F., *et al.* (See Guise, William L., assignor.)						
Borchardt, Samuel, New York, N. Y. Lamb's-wool or slipper sole. (Reissue)	11,742	May 23	3207	729	87	1385
Borcher, Thomas, Jersey City, N. J. Nipple-holder	635,226	Oct. 17	2308	538	89	489
Borchers, Wilhelm, Aix-la-Chapelle, Germany. Method of and apparatus for utilizing waste gases and heat from electric furnaces	630,283	Aug. 1	1015	223	88	923
Borchgrevink, Henrick K., assignor of one-half to J. F. Johnson, Racine, Wis. Milk-pail	633,115	Sept. 19	1723	404	88	2072
Borden, Albert, St. Louis, Mo. Damper	623,873	Apr. 25	3099	714	87	651
Borden, Albert, St. Louis, Mo. Valve-operating device and alarm	634,744	Oct. 10	1425	336	89	300
Borden, Albert, St. Louis, Mo. Thermostatically-actuating valve mechanism and alarm	637,073	Nov. 14	1622	351	89	1273
Borden, Hamilton. (See Bray, Joseph D., assignor.)						
Borden, Malbert T., Rockmart, Ga. Bicycle-gear	627,897	June 27	3122	684	87	2279
Bordier, Eugéne. (See Clairefond, Urbain, assignor.)						
Borel, Antoine, Geneva, Switzerland. Compensation watch-balance	631,103	Aug. 15	2571	582	88	1261
Borger, Paul, Baltimore, Md. Gun-mount	632,634	Sept. 5	759	175	88	1857
Borgfeldt, Nicholas H., New York, N. Y. Screw-propeller	620,411	Feb. 28	2929	671	86	1433
Borgolte, Wilhelm, Hoester, Germany. Grooved tile	618,197	Jan. 24	2574	569	86	552
Borgwardt, John C. (See Consoer, William, assignor.)						
Boring, Charles O. (See Summers, Bertrand S., assignor.)						
Boring, Clement W., Bradford, Pa. Automatic controlling-stop for engines	620,412	Feb. 28	2930	671	86	1434
Borland, Reuben. (See Tymeson and Borland.)						
Born, Henry, Cleveland, Ohio. Oven-door for ranges	626,047	May 30	3871	878	87	1529
Borne, Delbert Z., and J. Frey; said Frey assignor to H. A. Eoff, Findlay, Ohio. Type-casting machine	636,622	Nov. 7	704	153	89	1064
Borne, John F., and R. C. McClure, Buffalo, N. Y. Water-heater	624,903	May 16	1755	396	87	1082
Borowski, Richard H. (See Fischer, Borowski, and Goebel.)						
Borrey, William J., *et al.* (See Julier, Camilla, assignor.)						
Borrey, William J., *et al.* (See Martz, Benjamin F., assignor.)						
Borrman, William, Norfolk, N. Y., assignor to F. C. Austin, Chicago, Ill. Fluid-current motor	617,874	Jan. 17	1945	436	86	418
Borrowe, William, and J Lumley, San Francisco, Cal Manufacture of heat-insulating coverings	629,102	July 18	2159	501 502	88	459
Borsch, John L., Philadelphia, Pa. Bifocal lens	625,535	May 23	2864	652	87	1319
Borsch, John L., Philadelphia, Pa Bifocal lens	637,444	Nov. 21	2352	508	89	1431
Borton, Joseph H., trustee. (See Risley and Lake, assignors.)						
Borton, Stockton, Providence, R. I., assignor to Willcox & Gibbs Sewing Machine Company, New York, N. Y. Ribbon or band	640,085	Dec. 26	3497	802	89	399
Bosch, William J., New Orleans, La. Bicycle propelling mechanism	617,631	Jan. 10	1458	332	86	303
Boscowitz, Charles M. (See Morgan, Thomas, assignor.)						
Bose, Fred. (See Lehmann, August, Sr., assignor.)						
Bosenbury, William C., Richmond, Ind. Glue-spreading machine	627,567	June 27	2525	555	87	2161
Bosley, Elijah M., and W. Wurdack, St. Louis, Mo. Heating system	632,958	Sept. 12	1415	327	88	2001
Boss, Martin P., San Francisco, Cal. Boiler	627,321	June 20	2046	450 451	87	2052
Boss, Martin P., San Francisco, Cal. Water-tube boiler	634,978	Oct. 17	1840	436	89	2611
Boss, William R., assignor to Handy Brothers, West Bay City, Mich. Automatic feeding device for nailing-machines	622,661	Apr. 11	879	201 202	87	187
Bossart, Paul W., Marietta, Pa. Telephone cabinet and support	622,412	Apr. 4	382	88	87	71
Bossart, Paul W., Marietta, Pa. Granular electrode and treating same	622,413	Apr. 4	384	88	87	71
Bossert Electric Construction Company. (See Bossert, William F., assignor.)						
Bossert Electric Construction Company. (See Bossert and Holton, assignors.)						
Bossert, William F., assignor to Bossert Electric Construction Company, Utica, N. Y. Electrical switch apparatus	624,904	May 16	1757	397	87	1082

Alphabetical list of patentees—Continued.

Name, residence, and invention.	No.	Date.	Monthly volume. Spec.	Monthly volume. Dr'g.	Official Gazette. Vol.	Official Gazette. Page.
Bossert, William F., and G. L. Holton, assignors to Bossert Electric Construction Company, Utica, N. Y. Quick-break electric switch	617,275	Jan. 3	789	183	86	155
Bossuet, Emile M., Paris, France. Machine for printing, checking, and issuing railway or other tickets	617,313	Jan 10	860	202 203	86	187
Bostedo, Louis G., Chicago, Ill. Pneumatic-despatch system	623,509	Apr. 25	2415	554	87	522
Bostedo, Louis G., Chicago, Ill. Pneumatic-despatch-tube system	623,510	Apr. 25	2416	554 555	87	522
Bostedo Package and Cash Carrier Company. (See Danley, Willis W., assignor.)						
Bostedo Package and Cash Carrier Company. (See Gillespie, Alfred J., assignor.)						
Bostley, Augustus H., South Williamsport, Pa. Game apparatus	625,999	May 30	3778	860	87	1513
Bostock, Ralph, and F. A. Cheetham, Brighouse, England. Apparatus for supporting electric wires and automatically cutting off current on breakage of same	621,210	Mar. 14	1252	277	86	1757
Bostock, Ralph, and F. A. Cheetham, Brighouse, England. Apparatus for holding and connecting guard-wires of electric cables or other wires	622,596	Apr. 4	742	171	87	141
Boston Cast Steel Casting Company. (See Lundin, Andres G., assignor.)						
Boston Electric Hose Signal Company. (See Sargent, Howard, assignor.)						
Boston Loan Company. (See Murphy, John C., assignor.)						
Boston & Lockport Block Company. (See Tarbox, Alfred B., assignor.)						
Boston & Lockport Block Company. (See Wheeler, William C., assignor.)						
Boston Rubber Shoe Company. (See Goddard, Carey E., assignor.)						
Bostrom, Fritz W., assignor of one-half to H. W. Lansing, Lincoln, Nebr. Handkerchief-holder	635,121	Oct. 17	2125	497	89	455
Bostwick, George F., New York, N. Y. Illuminated car-sign	638,170	Nov. 28	4090	863	89	1832
Bostwick, Harry A. and R. B., Pittsburg, Pa. Stamp-moistener and envelop-sealer	631,104	Aug. 15	2572	582	88	1261
Bostwick, Rola B. (See Bostwick, Harry A. and R. B.)						
Bosworth, Wendell P., Brockton, Mass. Heel-building machine	631,035	Aug. 15	2447	555	88	1237
Botsford, Richard N. (See Hobart, Horatio N., assignor.)						
Bott, George M., assignor of one-half to F. R. Marks, Ashland, Ohio. Convertible truck	618,325	Jan. 24	2794	620	86	594
Böttcher, Ernst P., Altona, Germany. Automatic grooving, tenoning, and beveling machine for barrel-staves or the like	630,824	Aug. 8	2052	462 463	88	1138
Böttcher, Rudolf, Nuremberg, Germany. Friction-coupling	627,797	June 27	2954	645	87	2247
Bottger, Nels J., Clyde, Kans. Device for fastening curtains to vehicle-tops	624,746	May 9	1453	328	87	1006
Bottorff, Charles A., Elwood, Ind. Sheet-metal shears	621,743	Mar. 21	2236	504	86	1960
Botz, Charles J., Sedalia, assignor of three-tenths to Botz Typesetting Machine Company, Hermann, Mo. Type-case	628,442	July 11	924	215	88	197
Botz, Charles J, Sedalia, assignor of three-tenths to Botz Typesetting Machine Company, Hermann, Mo. Type-setting machine	630,772	Aug. 8	1956	441 442 443	88	1117
Botz Typesetting Machine Company. (See Botz, Charles J., assignor.)						
Boucher, Horace E., New York, N. Y. Trousers-rack	620,638	Mar. 7	169	36	86	1535
Bouchet, Maurice, Paris, France. Automatic electric-circuit breaker	623,511	Apr. 25	2419	555 556	87	523
Boudreaux Paul O. E., assignor of one-half to X. St. Martin, J. T. Theriot, and A. Watkins, Theriot, La. Railway-switch	627,384	June 20	2185	479	87	2078
Boufford, Joseph T., Linwood, Mass. Scraper	629,487	July 25	2865	666	88	613
Bougeno, William, Paducah, Ky. Portable fence	623,700	Apr. 25	2757	631	87	585
Boughton, Wilfred E., Philadelphia, Pa., assignor, by mesne assignments, to Lorain Steel Company, of Ohio. Electric-motor truck	633,713	Sept. 26	2862	665	88	2309
Bouhon, Julien R., assignor to Société Anonyme pour l'Eclairage et Le Chauffage par Le Petrole, (Brevet Bouhon,) Antwerp, Belgium. Can for petroleum or the like	629,332	July 25	2568	595	88	553
Bouillaud, Gustave, Macon, France. Photographic lighting apparatus	624,164	May 2	417	85	87	779
Boulard, Joseph, Boston, assignor to F. W. Mead, Hingham, Mass. Match-printing machine	621,893	Mar. 28	2528	569 570 571	86	2031
Boulesque, Jean P., New York, N. Y. Boat adapted to operate on land or in water	633,065	Sept. 12	1589	370 371	88	2035
Boult, Cedric R. (See Boult, Wilfrid S., assignor.)						
Boult, Wilfrid S., London, England. Electrical instrument	635,910	Oct. 31	3641	840	89	778
Boult, Wilfrid S., London, assignor of one-half to C. R. Boult, Liverpool, England. Railway-signal	634,388	Oct. 3	791	189 190	89	157
Bourie, Brutus A., Fort Wayne, Ind. Percolator for tea or coffee pots	638,698	Dec. 12	980	218	89	2077
Bourke, Alphege, Valparaiso, Ind. Fishing-line float	631,197	Aug. 15	2726	617	88	1293
Bourke, Martin, Youngstown, Ohio. Window-cleaner	635,462	Oct. 24	2797	639	89	602
Bourman, Samuel R. (See Myers, George A., assignor.)						
Bourne, Ernest M. (See Skiles and Bourne.)						
Bournonville, Eugène. (See Goldbacher and Bournonville.)						
Bournonville, Eugène, Jersey City, N. J. Acetylene-gas apparatus	617,632	Jan. 10	1460	333	86	304
Bourrelly, Gabriel, assignor of one-half to T. D'Oksza, Paris, France. Folding photographic camera	621,211	Mar. 14	1253	277	86	1758
Boutell, William H., Rochester, N. Y. Paring and coring machine. (Reissue)	11,777	Oct. 17	2406	560	89	508
Boutell, William H., Rochester, N. Y. Slicing-machine	634,870	Oct. 17	1651	388	89	361
Bouton, Arthur A., and S. H. Varnum, New York, N. Y. Sewing-machine	623,351	Apr. 18	2138	491 492 493	87	446
Bouton, Clinton D., *et al.* (See Clark, Horace J., assignor.)						
Bouton, Clinton D., Ithaca, N. Y., H. H. Green, A. D. Ross, and A. A. Chainey, Sunshine, Colo. Ore-roaster	635,418	Oct. 24	2710	621 622	89	583
Bouton, Georges. (See Dion and Bouton.)						
Bouvang, Nels, Rockford, Ill. Magazine plate-holder	630,849	Aug. 15	2099	476	88	1170
Boville, Tom, Swainby, England. Label-clip	638,171	Nov. 28	4091	863	89	1832
Bovy, Hugues, assignor to La "Volta" Société Anonyme Suisse de l'Industrie Electro-Chimique, Geneva, Switzerland. Electric furnace	618,391	Jan. 31	2944	652	86	638
Bovy, Victor, New York, N. Y. Corset busk and clasp	621,024	Mar. 14	921	200	86	1692
Bowden, James H., Wilkes-Barré, Pa. Screen-scraper	621,744	Mar. 21	2237	504 505	86	1960
Bowden, John M., Lorain, Ohio. Card-shuffling machine	636,749	Nov. 14	999	213	89	1151
Bowden, William, Manchester, England. Tuck-sewing machine	628,918	July 18	1827	425	88	393
Bowden, William, Manchester, England. Ruffled tucking	635,227	Oct. 17	2309	538	89	490
Bowdish, James O., Cincinnati, Ohio. Shipper's refrigerator	624,165	May 2	418	86	87	780
Bowdish, James O., Cincinnati, Ohio. Knockdown shipping-stall	628,175	July 4	408	96	88	83
Bowe, William H., Cincinnati, Ohio. Thill-coupling	629,488	July 25	2866	666	88	613
Bowe, William H., assignor of one-half to D. Poole, Cincinnati, Ohio. Vehicle-body loop.	639,013	Dec. 12	1531	351	89	2184
Bowell, George B. (See Hope-Jones and Bowell.)						
Bowen, Adna G., New York, N. Y. Clip or fastener	627,959	June 27	3237	710	87	2306
Bowen, Allen D., executrix. (See Bowen and Knox.)						
Bowen, Calvin C., Los Angeles, and C. R. Twitchell, Santa Monica, assignors to W. M. Bowen, Los Angeles, Cal. Animal-trap	634,844	Oct. 10	1597	374 375	89	334

Alphabetical list of patentees—Continued.

Name, residence, and invention.	No.	Date.	Monthly volume.		Official Gazette.	
			Spec.	Dr'g.	Vol.	Page.
Bowen, Calvin C., and C. R. Twitchell, assignors to W. M. Bowen, Los Angeles, Cal. Animal-trap	634,845	Oct. 10	1599	375	89	335
Bowen, Calvin C., and C. R. Twitchell, assignors to W. M. Bowen, Los Angeles, Cal. Animal-trap	634,846	Oct. 10	1601	375, 376	89	335
Bowen, Edmund J., New York, N. Y. Toy cannon	632,005	Aug. 29	4214	948	88	1613
Bowen, Francis C., Madison, N J. Broom-spreader	617,556	Jan. 10	1322	298	86	277
Bowen, Francis C., Madison, assignor to Consolidated Safety Pin Company, Bloomfield, N. J. Thimble	635,369	Oct. 24	2571	597	89	556
Bowen, Frank, Omaha, Nebr. Pump	618,835	Feb. 7	31	6	86	809
Bowen, Joseph L., Baltimore, Md. Car-truck	638,549	Dec. 5	684	144	89	1996
Bowen, Menard K., deceased, (A. D. Bowen, executrix,) and G. W. Knox, Chicago, Ill. Controller for motors	627,471	June 27	2350	517, 518	87	2127
Bowen, Robert S., Boston, Mass., assignor to Chickering & Sons, New York, N. Y. Lock	638,439	Dec. 5	483	98	89	1959
Bowen, W. Eugene. (See Millikin and Bowen.)						
Bowen, William D. (See Middlekauff, Ellsworth D., assignor.)						
Bowen, William M. (See Bowen and Twitchell, assignors.)						
Bower, Edward C. (See Radford, Frank, assignor.)						
Bower, William C., assignor of four-fifths to O. Marx, Birmingham, Ala. Letter-carrier's truck	634,799	Oct. 10	1514	356	89	317
Bowers, Albert M., Newark, N. J. Car-fender	637,227	Nov. 21	1949	416	89	1350
Bowers, Charles C., Elizabeth, N. J., assignor to F. B. Delehanty, New York, N. Y. Dumping-scow	639,704	Dec. 26	2805	647, 648	89	2470
Bowers, Charles C., Elizabeth, N. J., assignor to F. B. Delehanty, New York, N. Y. Dumping-scow	639,705	Dec. 26	2808	648	89	2471
Bowers. Frank K. (See Cranford, John I., assignor.)						
Bowers, George H., Salida, Colo. Hoisting and dumping machine	624,288	May 2	633	138	87	819
Bowers, Hiester A., Reading, Pa. Frying-pan lid	616,883	Jan. 3	21	5	86	6
Bowers, Hiester A., Reading, Pa. Puzzle	618,326	Jan. 24	2795	620	86	594
Bowers, Hiester A., Reading, Pa. Puzzle	636,109	Oct. 31	4046	926	89	858
Bowers, John C., New York, N. Y. Thill-coupling	622,597	Apr. 4	743	172	87	141
Bowers, John H., Roanoke, La. Pruning implement	634,607	Oct. 10	1181	280	89	252
Bowers, William, assignor of one-half to G. S. Dorwin, New York, N. Y. Bicycle-gear	617,392	Jan. 10	1032	235	86	220
Bowers, William H., Manchester, England. Retort for drying sewage matter	624,166	May 2	419	86	87	780
Bowers, William H., Manchester, England. Retort for carbonizing wood	634,161	Oct. 3	333	84	89	69
Bowie, Charles H., Lisbon Falls, Me. Game	619,663	Feb. 14	1576	359, 360	86	1135
Bowie, Charles H., Lisbon Falls, Me. Puzzle	632,890	Sept. 12	1310	300	88	1979
Bowing, John, Tilbury, England. Process of and apparatus for coking	627,043	June 13	1536	335, 336	87	1930
Bowker, Edward N., Bath, Me. Inside calipers	635,088	Oct. 17	2052	483	89	442
Bowler, Noahdiah P. (See Roberts, Albert E., assignor.)						
Bowles, Hardy, Corsicana, Tex. Feed-water regulator for boilers	630,171	Aug. 1	828	179	88	886
Bowles, Robert C. M., Brookline, Mass. Hearing instrument	626,823	June 13	1113	249	87	1847
Bowles, Thomas H. (See Butcher, James M., assignor.)						
Bowlus, Charles D., assignor to Buckeye Manufacturing Company, Anderson, Ind. Buggy-jack	627,095	June 20	1634	358	87	1968
Bowman, A. F., *et al.* (See Parks, Albert F., assignor.)						
Bowman, Abraham. (See Bradford, Edward D., assignor.)						
Bowman, Adam K., Greensburg, Pa. Garment-hanger	625,137	May 16	2167	492	87	1158
Bowman, Charles M., Lebanon, Pa. Printing-form	626,649	June 6	776	176, 177	87	1765
Bowman, Cyrus S., Newton, Kans. File-binder	630,172	Aug. 1	830	179	88	886
Bowman, Daniel W., *et al.* (See Clouse, Joseph N., assignor.)						
Bowman, Daniel W., *et al.* (See Wade, Harry R., assignor.)						
Bowman, George D. (See Brown, Robert S., assignor.)						
Bowman, Howard E., *et al.* (See Clouse, Joseph N., assignor.)						
Bowman, James S., and W. E. Graham, Cleveland, Ohio. Hose or pipe cleaning appliance	618,051	Jan. 24	2269	506	86	496
Bowman, John. (See Bowman, Madison and J.)						
Bowman, Joseph K., Grubbs, Del. Propeller-wheel	620,413	Feb. 28	2932	671	86	1434
Bowman, Joseph W., *et al.* (See Clouse, Joseph N., assignor.)						
Bowman, Madison and J., assignors of one-third to R. C. Willis, Toledo, Ill. Threshing-machine	635,742	Oct. 31	3311	764	89	714
Bowman, Nancy I., *et al.* (See Clouse, Joseph N., assignor.)						
Bowman, Newton K., Lawrence, Ohio. Mine-gate	617,699	Jan. 10	1592	360	86	329
Bowman, Newton K., Lawrence, Ohio. Water-wheel	627,044	June 13	1539	336, 337	87	1931
Bowman, Seward E. (See Kelly, John A., assignor.)						
Bowman, William, Medicine Hat, Canada. Toy	630,850	Aug. 15	2100	476	88	1170
Bowsher, Columbus A., Champaign, Ill. Tellurian	634,608	Oct. 10	1182	281	89	252
Bowsher, Jay C., South Bend, Ind. Horse-power	622,110	Mar. 28	2920	662	86	2108
Boyce, Charles L., Detroit, Mich. Telephone system	620,733	Mar. 7	364	74,75	86	1572
Boyce, Samuel J., Fishkill, N. Y. Game device	627,472	June 27	2352	518	87	2128
Boyd, Andrew J., Syracuse, N. Y. Runner attachment for wheeled vehicles	621,745	Mar. 21	2239	505	86	1961
Boyd, Charles A., Cleveland, Ohio. Car-truck	629,333	July 25	2569	595, 596	88	553
Boyd, George W., Washington, D. C. Compartment drug-receptacle	625,138	May 16	2168	492	87	1159
Boyd, Harry H. (See Crossley, Edward, assignor.)						
Boyd, Harold, Tamworth, England. Blasting-powder	622,990	Apr. 11	1448	------	87	295
Boyd, Ira, Slocum, Pa. Washing-machine	635,293	Oct 24	2429	566	89	529
Boyd, James L., La Porte, Ind. Burial apparatus	624,905	May 16	1758	397	87	1083
Boyd, John, Glasgow, Scotland. Mechanism for guiding and applying tension to spindle-driving bands	617,276	Jan. 3	792	183, 184, 185	86	156
Boyden, Eliza J. (See Batchelor, Joseph F., assignor.)						
Boyens, William H. (See Renner and Boyens.)						
Boyer, Charles T. (See Wheeler, James F., assignor.)						
Boyer, Ira L., Wheaton, Kans. Cultivator	621,894	Mar. 28	2531	571	86	2032
Boyer, John F., Norristown, Pa. Spigot or valve	627,473	June 27	2353	518	87	2128
Boyer, Joseph, St. Louis, Mo. Pneumatic riveting apparatus	624,447	May 9	917	206	87	901
Boyer, Joseph, St. Louis, Mo. Valve for pneumatic tools	633,355	Sept. 19	2194	515	88	2165
Boyer, Paul, Paris, France. Flash-lighting apparatus	623,874	Apr. 25	3101	714	87	651
Boyer, Seaton M., Allentown, Pa. Water-filter	621,786	Mar. 28	2320	521	86	1991
Boyett, Baptist E., Trimble, Tenn. Exchange-table and computing-machine	627,715	June 27	2806	614, 615	87	2217
Boylan, Douglas M. (See Coonley and Boylan.)						
Boylan, Douglas M., Bristow, Iowa. Draft-equalizer	617,826	Jan. 17	1856	415	86	401

Alphabetical list of patentees—Continued.

Name, residence, and invention.	No.	Date.	Monthly volume.		Official Gazette.	
			Spec.	Dr'g.	Vol.	Page.
Boyle, David, Paterson, N. J. Carbonator	628,137	July 4	340	81	88	69
Boyle, William G. (See Bergman, Victor, assignor.)						
Boyle, William M. (See Harding, Daniel J., assignor.)						
Boyles, James T., Martinsburg, W. Va. Clevis and wheel adjusting device for plows	628,748	July 11	1517	351	88	317
Boylston, George A., Atlanta, Ga. Trunk	638,088	Nov. 28	3907	822	89	1798
Boylston, John, Chicago, Ill. Pump-regulator	626,217	June 6	9	2	87	1616
Boynton, Alonzo R., Auburn, N. Y., assignor to Bundy Manufacturing Company, of New York. Salary-recorder	617,557	Jan. 10	1323	298	86	277
Boynton, Eben M., West Newbury, Mass. Railway	624,427	May 2	876	197, 198	87	870
Boynton, John E., Dublin, Tex. Wire-fence tool	638,550	Dec. 5	685	144	89	1997
Boynton, Mattie, administratrix. (See Nicholson, Isaac.)						
Boynton, Willie A., Dublin, Tex. Shaft-iron	629,980	Aug. 1	468	101	88	816
Boys, James E., Hillsdale, Mich. Tool for attaching fence-stays	620,536	Feb. 28	3152	722	86	1477
Brace, George B. (See Ferguson and Brace.)						
Brachhausen, Gustav A., Rahway, N. J. Automatic mechanical musical instrument	621,025	Mar. 14	922	200, 201, 202, 203	86	1692
Brachhausen, Gustav A., Rahway, N. J. Catch	621,318	Mar. 21	1465	324	86	1811
Brachhausen, Gustav A., Rahway, N. J. Governor mechanism	628,919	July 18	1828	425	88	393
Brachhausen, Gustav A., assignor to Regina Music Box Company, Rahway, N. J. Note-disk music-box	637,367	Nov. 21	2217	477	89	1404
Brachhausen, Gustav A., assignor to Regina Music Box Compauy, Rahway, N. J. Governor	637,368	Nov. 21	2218	477	89	1404
Brachhausen, Robert C. (See Krause and Brachhausen.)						
Brachvogel, Robert A., *et al.* (See Rapp, Nathaniel and R., Jr., assignors.)						
Brack, Johann J., assignor to Basle Chemical Works, Basle, Switzerland. Rhodol derivative	625,536	May 23	2866	------	87	1319
Bracken, Howard W. (See Knight and Bracken.)						
Brackett, George A., Minneapolis, Minn. Mess-chest	617,713	Jan. 17	1622	364	86	355
Bracktle, Wallace S., Oakland, Cal. Hat and garment hook	633,227	Sept. 19	1951	458	88	2118
Bracktle, Wallace S., Oakland, Cal. Portable weighing-scale	634,162	Oct. 3	334	84	89	69
Braconier, Oscar E., Rockford, Ill. Ironing-machine	619,703	Feb. 14	1660	381	86	1151
Bradbury, Arthur J., La Grange, Me. Holder for nursing-bottles	622,414	Apr. 4	385	88	87	72
Bradbury, William F., Kansas City, Kans., and D. E. Washington, Kansas City, Mo., assignors of one-third to G. H. Jeffreys, Kansas City, Kans. Safety device for Corliss engines	638,621	Dec. 5	819	176	89	2022
Braddock, Edward I., Medford, Mass. Insecticide	624,617	May 9	1234	------	87	962
Braddock, Edward I., Medford, Mass. Supporting apparatus for pieces or lengths of metal	640,086	Dec. 26	3498	802	89	2611
Braddock, Edward I., Medford, Mass., assignor to New Process Coating Company, Portland, Me. Apparatus for galvanizing	636,750	Nov. 14	1001	214	89	1151
Braddock, Warren L., Amesbury, Mass. Garment-supporter	635,648	Oct. 24	3120	718	89	664
Bradford, Benjamin P., Pittsburg, Pa. Tanning-vat	626,048	May 30	3872	878	87	1529
Bradford, Chester. (See Mustard, James E., assignor.)						
Bradford, Chester, assignor to Pneumatic Elevator and Weigher Company, Indianapolis, Ind. Vent device for pneumatic elevators	620,270	Feb. 28	2692	617	86	1389
Bradford, Daniel W. (See Rogers, William G., assignor.)						
Bradford, Edward D., assignor of one-half to A. Bowman, McLouth, Kans. Door or gate hanger	639,345	Dec. 19	2129	490	89	2318
Bradford, Eugene S., New York, N. Y. Machine for reducing pithy plants	636,623	Nov. 7	706	153, 154, 155	89	1065
Bradford, Eugene S., New York, N. Y., assignor, by mesne assignments, to Steel Plate Printing Company, Camden, N. J. Plate-printing machine	625,315	May 23	2487	564, 565	87	1245
Bradford, Eugene S., New York, N. Y., assignor to Steel Plate Printing Company, Camden, N. J., and Philadelphia, Pa. Fastening device for securing printing-plates to cylinders	625,316	May 23	2491	565, 566	87	1246
Bradford, Eugene S., New York, N. Y., assignor to Steel Plate Printing Company, Camden, N J., and Philadelphia, Pa. Feeding device for printing-presses	625,317	May 23	2492	566	87	1246
Bradford, Eugene S., New York, N. Y., assignor to Steel Plate Printing Company, Camden, N. J., and Philadelphia, Pa. Inking apparatus for printing-presses	625,318	May 23	2493	566, 567	87	1246
Bradford, Frank A. (See Holmes and Bradford.)						
Bradford, Joseph K. (See Stockwell, William L., assignor.)						
Bradford, Orlin W., Georgetown, Mass. Mop-handle	623,763	Apr. 25	2847	652	87	602
Bradford, Richard E., London, England. Compound engine	625,868	May 30	3495	791, 792	87	1459
Bradford, Samuel H., Sandusky, Ohio. Apparatus for loading vessels	619,128	Feb. 7	628	134, 135	86	934
Bradford, William A., assignor of one-half to N. Ames, Quincy, Mass. Pipe-wrench	628,749	July 11	1518	351	88	317
Bradlee, Dudley H., Medford, Mass., assignor to New England Rubber Tire Wheel Company, of West Virginia. Tire	633,680	Sept. 26	2801	652	88	2296
Bradley, Abraham, Utica, N. Y. Pliers	632,305	Sept. 5	184	41	88	1743
Bradley, Abraham, Utica, N. Y. Pliers	634,493	Oct. 10	982	235	89	214
Bradley, Andrew J., St. Louis, Mo. Marking-pot	621,400	Mar. 21	1592	352	86	1835
Bradley, Andrew J., St. Louis, Mo., assignor to Bradley Stencil Machine Company, of Missouri. Machine for making punches	628,687	July 11	1408	327	88	292
Bradley, Charles H., Chicago, Ill. Integral faucet and fluid-drawer	630,173	Aug. 1	831	179	88	887
Bradley, Charles H., Chicago, Ill. Fluid-drawer and means for attaching same to faucets	636,751	Nov. 14	1003	214	89	1151
Bradley, Charles S., Avon, N. Y. Electric condenser	617,714	Jan. 17	1624	365	86	355
Bradley, Christopher C., Syracuse, N. Y. Thill-coupling	634,549	Oct. 10	1088	258	89	234
Bradley, Christopher C., assignor to Christopher C. Bradley, Jr., Syracuse, N. Y. Thill-coupling	617,558	Jan 10	1327	299	86	277
Bradley, Christopher C., assignor to Christopher C. Bradley, Jr., Syracuse, N. Y. Thill-coupling	617,559	Jan. 10	1329	299	86	277
Bradley, Christopher C., assignor to Christopher C. Bradley, Jr., Syracuse, N. Y. Thill-coupling	627,175	June 20	1773	388	87	1996
Bradley, Clarence A., Beatrice, Nebr. Antiseptic-cabinet	624,747	May 9	1455	328, 329	87	1006
Bradley, George. (See Johnson, Rubin, and Bradley.)						
Bradley, Henry W. (See Bickerton and Bradley.)						
Bradley, James R., North Unley, assignor of one-half to H. Giles and F. V. Sanderson, Adelaide, South Australia. Machine for labeling tins, jars, bottles, &c	628,389	July 4	820	191, 192	88	157
Bradley, John, assignor to Chesebro, Whitman & Co., New York, N. Y. Extension-ladder hook	631,925	Aug. 29	4064	912	88	1583

Alphabetical list of patentees—Continued.

Name, residence, and invention.	No.	Date.	Monthly volume. Spec.	Monthly volume. Dr'g.	Official Gazette. Vol.	Official Gazette. Page.
Bradley, John C., Buffalo, N. Y. Rendering iron castings malleable	637,369	Nov. 21	2219	------	89	1404
Bradley, Joseph J. (See Van Wart, Popp, and Bradley.)						
Bradley, Robert, Pittsburg, Pa. Steam-piston	636,713	Nov. 7	887	196	89	1104
Bradley, Robert D., Linchester, Md. Carbureter	618,002	Jan. 17	2165	482, 483, 484	86	461
Bradley Stencil Machine Company. (See Bradley, Andrew J., assignor.)						
Bradley, Thomas J. (See Hills, Louis C., assignor.)						
Bradley, Walter A., Oswego, N. Y., assignor to Ames Iron Works. Device for manipulating tank-covers	639,014	Dec. 12	1532	351	89	2185
Bradley, William E. (See Fearon and Bradley.)						
Bradley, William H., assignor of one-half to G. F. Amthor, Bridgeport, Conn. Sash-fastener	627,096	June 20	1636	358	87	1969
Bradly, William E., *et al.* (See Hart and Pancoast, assignors.)						
Bradsby, William B., assignor of one-half to E. and U. S. De Moulin, Greenville, Ill. Measuring instrument	631,536	Aug. 22	3355	763	88	1435
Bradshaw, Charles W., Argentine, Kans. Wrench	635,463	Oct. 24	2797	639	89	602
Bradshaw, George L., Quincy, Ill. Safety-pin	633,304	Sept. 19	2079	487	88	2143
Bradshaw, William H., Orange, N. J. Fifth-wheel	631,393	Aug. 22	3099	702	88	1384
Bradshaw, William H., Orange, N. J. Fifth-wheel for vehicles	631,394	Aug. 22	3100	702	88	1384
Bradt, Chauncey D., assignor to G. Bradt, Green Island, N. Y. Machine for cutting and assembling tickets	623,649	Apr. 25	2668	612, 613	87	568
Bradt, Georgianna. (See Bradt, Chauncey D., assignor.)						
Bradt & Shipman. (See Pringle, Eugene, assignor.)						
Bradt, William M. (See Neely and Bradt.)						
Brady, Gordon W., assignor of one-half to G. M. Rittenhouse. New York, N. Y. Street-sweeper	634,283	Oct. 3	586	145, 146	89	117
Brady, James, New York, N. Y., assignor to Monarch Manufacturing Company, Waterbury, Conn. Engine-stop	624,428	May 2	878	198, 199	87	870
Brady, John F., Chicago, Ill. Means for restoring air-pressure in pneumatic tires	627,972	July 4	25	5	88	8
Brady, Thomas A., *et al.* (See Durnell, Cecil M., assignor.)						
Brady, William, *et al.* (See Kenney, Augustine, assignor.)						
Brady, William, Hearne, Tex. Cotton-compress	636,110	Oct. 31	4047	926	89	858
Brady, William R. (See Cornelius, Wilbur F., assignor.)						
Bragg, Solomon A., Granada, assignor of one-half to H. C. Jones, H. S. Johnson, and M. C. Archart, Springfield, Mo. Envelop	622,598	Apr. 4	744	172	87	141
Bragger, John W., assignor to Jefferson Brass Works, Watertown, N. Y. Pipe-bending machine	632,635	Sept. 5	763	175, 176	88	1858
Bragger, John W., assignor to Jefferson Brass Works, Watertown, N. Y. Machine for bending tubes	632,636	Sept. 5	767	176, 177	88	1859
Bragunier, Daniel H., Hagerstown, Md. Show-case	639,141	Dec. 12	1739	401	89	2225
Bragunier, Frank J. (See Bragunier, Samuel A., P. M., and F. J.)						
Bragunier, Parker M. (See Bragunier, Samuel A., P. M., and F. J.)						
Bragunier, Samuel A., Topeka, Kans., P. M. Bragunier, Denver, Colo., and F. J. Bragunier, Topeka, Kans. Mail-box	624,289	May 2	634	139	87	820
Braid, Fouutain S., New York, N. Y. Elevator-controller	622,755	Apr. 11	1029	239	87	215
Brain, George, Forest City, Pa. Comb	623,201	Apr. 18	1865	427	87	391
Brainard, Edwin D., New York, N. Y. Fountain	634,569	Oct. 10	1121	266, 267	89	241
Brainard, Henry. (See Monighan and Brainard.)						
Brainard, Sidney W. (See Cherry and Brainard.)						
Braisher, Edward F., Oshkosh, Wis. Apparatus for making cushions	639,511	Dec. 19	2437	563	89	2379
Braisher, Edward F., Oshkosh, Wis. Upholstering apparatus	639,512	Dec. 19	2438	563, 564	89	2380
Braisher, Edward F., and H. M. Foulk, assignors to H. M. Clark, Oshkosh, Wis. Upholstering apparatus	639,142	Dec. 12	1740	402	89	2226
Brake, John A., Dayton, Ohio. Manifolding-book	625,139	May 16	2169	492	87	1159
Braley, Thurman, and D. W. Custer, Proctorville, Ohio. Switch	634,437	Oct. 3	880	212	89	177
Brammell, Emma M., *et al.* (See Ward, Oscar, Jr., assignor.)						
Brammell, Emma M., New Canton, Ill. Horse-detacher	622,662	Apr. 11	881	202	87	187
Brammell, John W., *et al.* (See Ward, Oscar, Jr., assignor.)						
Bramwell. Charles A. (See Hart and Bramwell.)						
Branch, Hayden W., Tampa, assignor of one-half to M. S. Moreno, Key West, Fla. Apparatus for cleaning hulls and keels of ships	637,702	Nov. 21	3197	664	89	1636
Brand, Dawson T., Eastman, Ga. Evaporating apparatus	630,174	Aug. 1	833	179	88	887
Brandenburg, William C., near Sykesville, Md. Bicycle	622,880	Apr. 11	1264	292	87	259
Brandes, Herman H., assignor of one-half to G. W. Pritchett, Corydon, Ky. Stitching-horse	627,973	July 4	26	5	88	8
Brändli, Hermann, assignor of one-half to J. Sternad, Jersey City, N. J. Alarm-bell for bicycles	622,440	Apr. 4	432	100, 101	87	80
Brandner, John. (See Lyncker, Gustav A., assignor.)						
Brandon, A. B., *et al.* (See Brandon, Callie C., assignor.)						
Brandon, A. C. G., *et al.* (See Bray, Frank F., assignor.)						
Brandon, Callie C., assignor of one-half to A. B. Brandon and J. C. Callaway, Seelig, Ark. Folding trap	623,875	Apr. 25	3102	714, 715	87	652
Brandon, James A., Akron, Ohio. Picture-mounting press	637,228	Nov. 21	1951	416	89	1350
Brandon Printing Company. (See Lé Gras, Bailey D., assignor.)						
Brandt, August W. (See Brandt, Louis and A. W.)						
Brandt, Edward J., Watertown, Wis. Coin-delivery and cash-register machine	628,688	July 11	1409	328, 329, 330	88	293
Brandt, Franz O., assignor to C. Kursawe, Dresden, Germany. Folding chair or seat	620,220	Feb. 28	2609	593	86	1372
Brandt, John, London, England. Music-stool	621,746	Mar. 21	2240	505, 506	86	1961
Brandt, John, Chicago, Ill. Stringed instrument	634,103	Oct. 3	224	56	89	48
Brandt. Louis and A. W., Stockton, Cal. Fire-kindler	622,200	Apr. 4	8	------	87	4
Brandt, Oscar S. (See Ray, Francis B., assignor.)						
Brandy, James, assignor of one-half to R. C. Taylor, Lawrence, Mass. Wool-cleaning machine	636,714	Nov. 7	888	196	89	1104
Branham. Frank L. (See Pickett and Branham.)						
Brann, John A. V., Water Valley, Ky. Pan, pot, or lid lifter	629,981	Aug. 1	469	102	88	816
Brannigan, Matt J., *et al.* (See Benjamin and Jackson, assignors.)						
Branson, Irene A., assignor of one-half to J. W. Roush, Pagosa Springs, Colo. Toy bell	631,926	Aug. 29	4065	912	88	1583
Branson, Joseph, assignor of two-thirds to G. McNamee and J. A. Hawes, Appleton, Wis. Wire-and-slat-fabric-making machine	616,884	Jan. 3	24	5	86	7
Branson, Russel W., Cherokee, Kans. Fastening device for mail-bags	633,751	Sept. 26	2925	680	88	2321

Alphabetical list of patentees—Continued.

Name, residence, and invention.	No.	Date.	Monthly volume.		Official Gazette.	
			Spec.	Dr'g.	Vol.	Page.
Branstetter, Hugh L., Vandalia, Mo. Protected express-car	638,551	Dec. 5	686	144	89	1997
Brant, Clark T., Chariton, Iowa. Jar or can opener	627,292	June 20	1982	436	87	2038
Brant, Clark T., Chariton, Iowa. Screw-cap for cans, tanks, &c	639,982	Aug. 1	470	102	88	816
Brantingham, Allen C. (See Pierce, Harry H., assignor.)						
Brantingham, Allen C., Toledo, Ohio, assignor to Nordyke & Marmon Company, Indianapolis, Ind. Dust-collector	631,734	Aug. 22	3724	836	88	1507
Brantley, Henry J., Tampa, Fla. Liquid-measure	633,564	Sept. 26	2575	603, 604	88	2254
Brantley, William A., Aulander, N. C. Combined harrow and cultivator	640,087	Dec. 26	3501	802, 803	89	2611
Brasfield, W. J., *et al.* (See Templeton, William G., assignor.)						
Brashears, Harvy G. (See Smith, John A., assignor.)						
Brass, Charlie, Alverton, Pa. Combination swing and cradle	630,851	Aug. 15	2102	476	88	1170
Brassington, John D., New York, N. Y. Snap-catch for harness	622,201	Apr. 4	8	2	87	4
Bratten, Herschel A. (See Killman and Bratten.)						
Bratton, Robert J., Dana, Ind., assignor of one-half to R. Thompson, Scotland, Ill. Bouquet-holder	617,951	Jan. 17	2087	468	86	448
Brauer, Heinrich W. E., and M. Jaspersen, Hamburg, Germany. Movement for bicycles	636,624	Nov. 7	711	155	89	1065
Brault, Camille, Clichy, France. Manufacture of elements for secondary batteries	625,287	May 16	2429	550	87	1208
Braun, Albert, and E. McPherson, Allegheny, Pa. Toy money-bank	632,040	Aug. 29	4278	961	88	1625
Braun & Co., F. W. (See Martin and Petter, assignors.)						
Braun, Emil, Moulton, Tex. Poison-distributer	628,920	July 18	1829	426	88	394
Braun, Frederick W. (See Calkins, Albert C., assignor.)						
Braun, Henry, Elizabeth, N. J. Cue-tip	621,787	Mar. 28	2321	521	86	1991
Braun & Sons, John. (See Deck, Henry, assignor.)						
Braun, William F., Chicago, Ill. Driving means for centrifugal machines	627,665	June 27	2719	596	87	2200
Braverman, Alfred, Fresno, Cal. Vessel-closure	617,919	Jan. 17	2035	455	86	436
Bray, Albert, assignor to Spotless Steam Sponger Co., Cleveland, Ohio. Sponging device	640,156	Dec. 26	3622	832	89	2636
Bray, Frank F., assignor of one-third to J. B. Arbuthnot and A. C. G. Brandon, Kansas City, Mo. Rail-joint	621,956	Mar. 28	2645	595	86	2053
Bray, George and J. W., Leeds, England. Acetylene-gas burner	629,061	July 18	2071	482	88	441
Bray, John W. (See Bray, George and J. W.)						
Bray, Joseph D., assignor to H. Borden, Chicago, Ill. Revolving eccentric screen	622,035	Mar. 28	2790	629	86	2082
Bray, Mellen N. (See Glass, Perley R., assignor.)						
Bray, Oscar E., assignor of one-half to E. G. E. Ffolkes, Toronto, Canada. Ensilage-cutter	635,464	Oct. 24	2800	639, 640	89	602
Bray, Oscar E., Toronto Junction, assignor of one-half to E. G. E. Ffolkes, Toronto, Canada. Feed-cutter	639,015	Dec. 12	1534	352	89	2185
Bray, Thomas J., assignor of one-half to Oil Well Supply Company, Pittsburg, Pa. Manufacture of welded pipe	618,327	Jan. 24	2797	620, 621	86	594
Bray, Thomas J., assignor to Oil Well Supply Company, Pittsburg, Pa. Tubing or casing joint for Artesian and oil wells	619,821	Feb. 21	1893	432	86	1222
Bray, Thomas J., assignor to Oil Well Supply Company, Pittsburg, Pa. Coupling for pipes, tubes, or casings	633,499	Sept. 19	2438	574	88	2212
Brayton, William L., Harrisburg, Pa. Bridge	632,985	Sept. 12	1457	338, 339	88	2008
Bready, Edna F., *et al.* (See Bready, Henry Y., assignor.)						
Bready, Henry Y., assignor to E. F. Bready and H. A. Johns, Baltimore, Md. Bottle-stopper	639,693	Dec. 19	2786	642	89	2449
Brechner, Israel, Waterloo, Iowa. Corn-planter	623,303	Apr. 18	2051	470, 471	87	430
Bréchot, Arthur, Versailles, France. Spark-arrester and draft-producer for furnaces	628,750	July 11	1519	352	88	317
Breckenridge, John E. (See Waring and Breckenridge.)						
Bredel, Frederick, Milwaukee, Wis. Improving quality and increasing quantity of illuminating coal-gas	635,911	Oct. 31	3643	------	89	778
Bredemeyer, Johann A. O., Seattle, Wash. Stump-burner	634,609	Oct. 10	1186	281	89	253
Bredt, Julius, Aix-la-Chapelle, Germany, assignor to Farbenfabriken of Elberfeld Company, of New York. Bromin derivative of phthalimid and making same	621,319	Mar. 21	1466	------	86	1811
Breeding, James B., San Antonio, Tex. Electric-current controller	623,393	Apr. 18	2210	507	87	461
Breeding, John W., assignor of one-third to E. Marks and R. P. Brown, Bisbee, Ariz. Ter. Car-wheel	631,692	Aug. 22	3633	819	88	1491
Breeding, John W., assignor of one-third to E. Marks and R. P. Brown, Bisbee, Ariz. Ter. Ball-bearing car-axle box	631,693	Aug. 22	3634	819	88	1492
Breeze, Herbert J., Port Huron, Mich., assignor of one-half to C. L. Osberg, Sandusky, Ohio. Bicycle-lock	620,221	Feb. 28	2610	593	86	1372
Bregenzer, William H. (See Osenbach and Bregenzer.)						
Brehm, Jean F., assignor to G. Ferrari and R. Plechner, Philadelphia, Pa. Cigarette-machine	636,625	Nov. 7	711	155, 156, 157	89	1066
Brehm, Jean F., assignor to G. Ferrari and R. Plechner, Philadelphia, Pa. Cigarette-machine	638,212	Dec. 5	9	3	89	1868
Breiding, Henry, Sterling, Ill. Thill-coupling and antirattler	628,443	July 11	926	216	88	198
Breitenbach, William C., Philadelphia, Pa. Game-board or puzzle	623,876	Apr. 25	3103	715	87	652
Breitschwerth, Conrad, Syracuse, N. Y. Preparing clay for manufacturing pottery, &c.	621,212	Mar. 14	1255	277	86	1758
Breland, Charles J. W. (See Connor, Ziegler, and Breland.)						
Brelsfoard, William S., Heno, Ohio. Bridge	624,618	May 9	1234	277	87	962
Bremer, August, Halle-on-the-Saale, Germany. Hanger device for supporting boarding or planking on iron girders	635,122	Oct. 17	2126	498	89	455
Breneman, Amos, East Petersburg, Pa. Shutter bower and bolt	623,877	Apr. 25	3105	715	87	652
Brening, Charles E., assignor to E. W. Ross Company, Springfield, Ohio. Corn-husking machine	618,052	Jan. 24	2270	506, 507	86	496
Brennan & Co. Southwestern Agricultural Works. (See Brennan and Christman, assignors.) (Reissue.)						
Brennan, James A., assignor to Worcester Electric Light Company, Worcester, Mass. Locking hanger for electric-arc lamps	630,852	Aug. 15	2103	477	88	1170
Brennan, James P., Elba, Wis. Potato-harvester	616,885	Jan. 3	26	5, 6	86	7
Brennan, John, Jr., St. Louis, Mo. Electric switching system	631,497	Aug. 22	3290	748	88	1422
Brennan, Mary E. (See McKenna, David, assignor.)						
Brennan, Thomas, Louisville, Ky. Shoe for grain-drills	626,803	June 13	1074	242	87	1841
Brennan, Thomas, Jr., Louisville, Ky. Seeding-machine	631,844	Aug. 29	3926	878	88	1556
Brennan, Thomas, and E. Christman, assignors to Brennan & Co. Southwestern Agricultural Works, Louisville, Ky. Shoe for grain-drills. (Reissue)	11,720	Feb. 28	3204	734	86	1486
Brennan, William J., Dayton, Ohio. Grass-catcher for lawn-mowers	639,346	Dec. 19	2133	490	89	2318
Brenner, Benjamin F., assignor to Columbia Grey Iron Company, Columbia, Pa. Toy cannon	636,483	Nov. 7	433	96	89	1008

Alphabetical list of patentees—Continued.

Name, residence, and invention.	No.	Date.	Monthly volume.		Official Gazette.	
			Spec.	Dr'g.	Vol.	Page.
Brenner, Joachim von, Vienna, Austria-Hungary. Disinfecting composition and making same	625,319	May 23	2497	------	87	1247
Brenner. Josef F. von. (See Prinz, Haber, Tomischka, and Brenner.)						
Brent, Maurice, *et al.* (See Reynolds, Hiram R., assignor.)						
Brentano, Simon, New York, N. Y. Toy picture-book	622,111	Mar. 28	2921	662, 663	86	2108
Brenzinger, Julius, assignor to M. Ams, New York, N. Y. Machine for flanging sheet-metal can-bodies	629,650	July 25	3158	736	88	670
Brenzinger, Julius, assignor to M. Ams, New York, N. Y. Clutch	629,651	July 25	3159	736	88	670
Brenzinger, Julius, assignor to M. Ams, New York, N. Y. Can-heading machine	637,761	Nov. 28	3304	690, 691	89	1676
Brereton, John W., Athlone, and W. W. Brereton, Galway, Ireland. Driving-gear	634,163	Oct. 3	335	84, 85	89	69
Brereton, William W. (See Brereton, John W. and W. W.)						
Bresee, Oscar F., Jr. (See Scroggins, Robert H., assignor.)						
Bresland, Sylvester E., Fort Worth, Tex. Mail-bag catcher and deliverer	625,016	May 16	1942	436	87	1118
Breslauer, Eduard, Leipsic, Germany. Note-disk holder for mechanical musical instruments	623,878	Apr. 25	3106	715, 716	87	653
Breslauer, Eduard, Leipsic, Germany, assignor to Symphonion Manufacturing Company, New York, N. Y. Automatic music-box with interchangeable music-disks	626,482	June 6	488	113	87	1708
Bresser, Gotlieb H., Burlington, Iowa. Horseshoe	639,143	Dec. 12	1742	402	89	2226
Breth, Robert L., La Jose, assignor of one-half to J. Gillespie, Patton, Pa. Vehicle-wheel	635,228	Oct. 17	2310	538	89	490
Bretherton, Montague J., Philadelphia, Pa. Rotary engine	619,129	Feb. 7	631	135, 136	86	934
Bretherton, Sidney E., Silver City, N. Mex. Ter. Hot-blast box	624,748	May 9	1458	329	87	1007
Brett, William C., assignor to B. Abrahams, London, England. Machine for filling tubes or other receptacles with rubber solution, &c	619,067	Feb. 7	511	107, 108	86	910
Breul, Richard A., Bridgeport, Conn. Wire-tack machine	621,957	Mar. 28	2647	596, 597	86	2053
Breuning, Eugen, Obendorf, assignor to A. Mauser, Cologne, Germany. Hinge	630,480	Aug. 8	1455	325	88	1020
Breuscher, Christoph C., assignor to Plano Manufacturing Company, Chicago, Ill. Tripping mechanism for grain-binders	630,853	Aug. 15	2105	477	88	1171
Breuscher, Christoph C., deceased; M. Breuscher, administratrix, assignor to Plano Manufacturing Company, Chicago, Ill. Self-binding harvester	630,854	Aug. 15	2108	478	88	1171
Breuscher, Mary, administratrix. (See Breuscher, Christoph C.)						
Breves, Charles, and E. Capouch, Chicago, Ill. Necktie-fastener	638,660	Dec. 5	882	193	89	2037
Brewer, Charles A., Chicago, Ill. Coin-controlled machine	629,334	July 25	2570	596	88	554
Brewer & Co., H. (See Stimpson, Walter F., assignor.)						
Brewer, Elliot L., Fairmont, Nebr. Liquid-sterilizer	633,066	Sept. 12	1591	371	88	2036
Brewer, James R. (See Wood, William B., assignor.)						
Brewer, Joseph H., Cumberland, assignor of two-thirds to A. J. Cooke, deceased, (S. E. Cooke, executrix,) and J. A. Dalton, Webster county, Miss. Fertilizing compound	639,805	Dec. 26	3001	------	89	2511
Brewer, Robert E., Boston, Mass. Rotary engine	630,648	Aug. 8	1762	396, 397	88	1078
Brewer, William J., Pimlico, assignor of one-half to J. E. Cooper, Withernsea, England. Automotor carriage or vehicle	621,483	Mar. 21	1750	390	86	1865
Brewer, William J., London, England, assignor of one-half to W. A. Simmons, trustee, New York, N. Y. Means for reduction of friction of axles and journals	632,092	Aug. 29	4374	983	88	1643
Brewer, William J., London, England, assignor of one-half to W. A. Simmons, trustee, New York, N. Y. Means for reducing friction of axles and journals	632,438	Sept. 5	419	93	88	1789
Brewer, William J., London, England, assignor of one-half to W. A. Simmons, trustee, New York, N. Y. Means for reducing friction of axles and journals	632,693	Sept. 12	927	216	88	1905
Brewer, William J., London, England, assignor of one-half to W. A. Simmons, trustee, New York, N. Y. Means for reducing friction of axles and journals	633,116	Sept. 19	1725	405	88	2073
Brewer, William M. (See Burrous and Brewer.)						
Brewer, William N., Cleveland, Ohio. Fare-register	622,881	Apr. 11	1265	292	87	259
Brewer, William N., Cleveland, Ohio. Hat-fastener	629,026	July 18	2013	468	88	429
Brewington, Henry S., Baltimore, Md. Curtain ring and holder	618,557	Jan. 31	3246	721	86	694
Brewington, Henry S., assignor of one-fourth to M. G. Gill, Baltimore, Md. Bottle-stopper	639,347	Dec. 19	2134	491	89	2318
Brewster, Frank H., assignor to Birmingham Iron Foundry Company, Derby, Conn. Machine for making hose	626,049	May 30	3873	878, 879	87	1529
Brewster, James F., and R. M. Gill, D'Arbonne, La.; said Brewster assignor to said Gill. Fire building and kindling device	625,243	May 16	2343	534, 535	87	1192
Brewster, William N., *et al.* (See Sui, Ding Cie, assignor.)						
Brian, W. S., *et al.* (See Faulkner, James J., assignor.)						
Brice, Edward C., Chicago, Ill. Continuous kiln or furnace for burning bricks, &c	636,193	Oct. 31	4199	964, 965	89	890
Brickell, William S., Olean, N. Y. Closet ventilating and flushing apparatus	629,709	July 25	3258	760	88	689
Bricker, John H., *et al.* (See Legg, Benjamin A., assignor.)						
Brider, Pat, *et al.* (See Brown, Edmond H., assignor.)						
Bridesburg Machine Company. (See Goodyear, Robert B., assignor.)						
Bridge, Ephraim C., Chariton, Iowa. Optical appliance	638,316	Dec. 5	243	51	89	1913
Bridgeport Brass Company. (See Rhind, Frank, assignor.)						
Bridgwater, Harry H., Akron, Ohio, assignor to C. W. Shoemaker, Bridgeton, N. J. Machine for molding glassware	629,844	Aug. 1	166	39	88	753
Bridoux, Charles H. (See Hewitt and Bridoux.)						
Brielmaier, John E., Dubuque, Iowa. Wood-carving machine	638,794	Dec. 12	1141	254, 255	89	2109
Brien, John G., London, England. Clip for drawing conductors through conduits	633,067	Sept. 12	1593	371	88	2036
Brier, Arthur, Manchester, England. Electrical switch	619,465	Feb. 14	1231	280	86	1069
Brierley, Wynford, Nelson, England. Apparatus for signaling upon railways	628,299	July 4	659	153, 154	88	127
Brierley, Wynford, Nelson, England. Apparatus for signaling on railways	628,300	July 4	661	154, 155	88	127
Brigalant, Gaston, Barentin, France. Manufacture of cardboard from leather stuff	637,074	Nov. 14	1625	351	89	1274
Briganti, Pasquale, New York, N. Y. Illuminating-tile	634,054	Oct. 3	121	31	89	28
Briggs, Charles C. (See Glazier, George W., assignor.)						
Briggs, Frank A., New Whatcom, Wash. Grip for bicycles	630,649	Aug. 8	1764	397	88	1079
Briggs, Franz S., Neosho, Mo. Felly-trough	630,481	Aug. 8	1457	326	88	1021
Briggs, Henry. (See Wilson and Perkins, assignors.)						
Briggs, Jennie L., Taunton, Mass. Cuff-button	619,932	Feb. 21	2090	475	86	1260
Briggs, Jerome C., Columbus, Ohio. Stogie or cigar rolling machine	627,798	June 27	2954	646	87	2247
Briggs, John D., and C. E. Elliott, Williamson, N. Y. Acetylene-gas generator	626,824	June 13	1115	250	87	1847
Briggs, John N. (See Mulder, Martienus, assignor.)						
Briggs, John N., Coeymans, N. Y. Apparatus for planing cakes of ice. (Reissue)	11,739	May 9	1739	393	87	1061

Alphabetical list of patentees—Continued.

Name, residence, and invention.	No.	Date.	Monthly volume.		Official Gazette.	
			Spec.	Dr'g.	Vol.	Page.
Briggs, Lewis W., New York, N. Y. Brush-bridle	634,570	Oct. 10	1125	267	89	241
Briggs, Ralph E., *et al.* (See Getchell, Augustus W., assignor.)						
Briggs, Thomas A. (See Philpott and Briggs.)						
Briggs, William F., Bristol, R. I. Clothes-line prop	628,902	July 11	1793	418	88	369
Brigham, Albert H., assignor of one-half to W. E. Trufant, Whitman, Mass. Last or follower	639,886	Dec. 26	3126	719	89	2534
Brigham, Edward M. (See Hatfield and Brigham.)						
Brigham, Henry M., and S. M. Meyer, New York, N. Y., assignors to Empire Self Lighting Oil Lamp Company. Device for lighting lamps by electricity	633,565	Sept. 26	2577	604	88	2255
Brigham, Walter I., South Framingham, Mass. Attachment for dental mirrors	634,638	Oct. 10	1229	292	89	262
Bright, Edward S., and G. F. Smith, assignors to themselves, D. H. and L. C. Rice, Baltimore, Md. Machine for rolling dough into cylindrical shapes	629,983	Aug. 1	471	102	88	816
Bright, Henry L., *et al.* (See Hood, Hiram Q., assignor.)						
Bright, Thomas C., Kansas City, Mo. Steam-power system	619,715	Feb. 21	1694	387, 388	86	1183
Brightman, Latham H., Cleveland, Ohio. Machine for straightening metal bars	617,223	Jan. 3	685	159	86	134
Brightman, Latham H., Cleveland, Ohio. Machine for turning round bars	625,922	May 30	3592	815, 816	87	1477
Brightmore, Arthur W., Knighton, England. Theodolite, level, &c	618,161	Jan. 24	2516	558	86	541
Brightmore, James, Tideswell, assignor to J. Alsop, Whatstandwell, England. Gully-trap for drains	632,396	Sept. 5	341	77	88	1774
Brighton, Douglas G., assignor to Sanitary Lead-Lining and Pipe-Bending Company, Limited. Metal soil or other pipe	627,293	June 20	1983	436	87	2039
Brighton, Thomas, Carnforth county, England. Toy or game	622,663	Apr. 11	883	202	87	187
Brill, George M., Philadelphia, Pa. Car-truck for motor propulsion, &c	627,898	June 27	3125	684, 685	87	2280
Brill, George M., Philadelphia, Pa. Car-truck	627,899	June 27	3136	686	87	2284
Brill, George M., Philadelphia, Pa. Car-truck	627,900	June 27	3138	686	87	2284
Brill, George M., assignor to J. A. Brill, Philadelphia, Pa. Pivotal car-truck	635,274	Oct. 17	2392	557, 558	89	504
Brill, John A. (See Adams, Walter S., assignor.)						
Brill, John A. (See Brill, George M., assignor.)						
Brill, John A. (See Curwen and Brill.)						
Brill, John A. (See Pyott, Louis T., assignor.)						
Brill, John A. (See Smyser, Louis B., assignor.)						
Brill, John A., Philadelphia, Pa. Convertible railway-car	623,764	Apr. 25	2849	653, 654	87	603
Brill, John A., Philadelphia, Pa. Double-deck car	632,041	Aug. 29	4280	961, 962	88	1625
Brill, John A., Philadelphia, Pa. Car-truck	636,484	Nov. 7	435	96, 97	89	1009
Brillié, Eugène, Paris, France. Explosive-motor	618,638	Jan. 31	3382	753	86	720
Brillié, Eugene, Paris, France. Combined distributer and regulator for explosive-engines	638,440	Dec. 5	485	99	89	1960
Brillhart, Elmer L., Pentwater, Mich. Potato-bug exterminator	623,977	May 2	42	9	87	709
Brimer, Charles, Big Indian, N. Y. Turbine water-wheel	630,482	Aug. 8	1457	326	88	1021
Brindle, Thomas, and M. O. Steere, Pawtucket, R. I. Loom	634,681	Oct. 10	1309	308	89	278
Briney, Charles E., Allegheny, Pa. Valve-regulator for smoke-consumers	629,489	July 25	2867	666	88	613
Brink, Benjamin, assignor of one-half to C. S. Hebard, Pequaming, Mich. Wing for knees on head-blocks for sawmills	619,130	Feb. 7	634	136, 137	86	935
Brink, Carl A. (See Mossberg and Brink.)						
Brink, Carl A., Providence, R. I. Hook-guard	622,202	Apr. 4	10	2	87	4
Brinkmann, August H. (See Keil, Harry H., assignor.)						
Brinkmann, Heinrich, Munich, Germany. Throttle-valve	616,886	Jan. 3	29	6	86	8
Brinkmann, Heinrich, Munich, Germany. Shifting, reversing, and controlling mechanism for vessels	617,633	Jan. 10	1463	333, 334	86	304
Brinkmann, Henry, Philadelphia, Pa. Garbage-depository	623,879	Apr. 25	3108	716	87	653
Brinkworth, Charles E., Buffalo, N. Y. Plate-printing and embossing machine	634,658	Oct. 10	1268	300	89	270
Brinley, Charles A., Philadelphia, Pa., assignor to American Pulley Company, of Pennsylvania. Sheet-metal pulley	635,912	Oct. 31	3644	840	89	778
Brinser, George H., Lancaster, Pa. Vegetable-cutter	634,494	Oct. 10	983	235	89	218
Brinser, Solomon C., Middletown, Pa. Corn-roaster	623,512	Apr. 25	2422	556	87	523
Brintnall, George P., assignor of two-thirds to J. L. and C. F. Mensch, Buffalo, N. Y. Water-heater	626,454	June 6	441	103	87	1699
Brisco, Charles N., Chicago, Ill. Bottle-stopper	623,304	Apr. 18	2051	471	87	430
Brisselet, Henri, assignor to J. Terrisse, Geneva, Switzerland. Making safety-locks	623,701	Apr. 25	2759	632	87	586
Brissette, Samuel J., assignor to G. A. Emerson and W. R. Sampson, Lynn, Mass. Leather-rolling machine	638,862	Dec. 12	1252	283, 284	89	2130
Bristol Bell Company. (See Rockwell, Edward D., assignor.)						
Bristol Company. (See Bristol, William H. and E. H., assignors.)						
Bristol, Edgar H. (See Bristol, William H. and E. H.)						
Bristol, William H., Hoboken, N. J. Multiplying device for recording instruments	625,537	May 23	2867	653	87	1319
Bristol, William H., Hoboken, N. J., and E. H. Bristol, Naugatuck, assignors to Bristol Company, Waterbury, Conn. Manufacturing belt-fasteners	639,513	Dec. 19	2440	564	89	2380
Britain, William, Jr., London, England. Delivering and receiving mechanism for parcels	625,244	May 16	2349	535	87	1194
British Blahnik Arc Light Company. (See Worsley, Frederic S., assignor.)						
Britt, Chester L., assignor of one-half to R. H. Page, Lynn, Mass. Wood-scraper	619,131	Feb. 7	635	137	86	935
Britt, Joseph. (See White, Fred G., assignor.)						
Brittain, Rueben E., *et al.* (See Reed, Sextus L., assignor.)						
Britton, Joseph A. (See Schleicher, John C., assignor.)						
Broadbent, James. (See Broadbent, Thomas and J.)						
Broadbent, Thomas, Toronto, Canada, and J. Broadbent, Madison, Wis. Nut-lock	624,448	May 9	922	206	87	902
Broadway, Alexander H., New York, N. Y., assignor to Passaic Print Works, Passaic, N. J. Sample-card	626,137	May 30	4071	928	87	1565
Brochet, Maurice, Levallois-Perret, France. Aerial railway	637,703	Nov. 21	3199	664, 665	89	1637
Brock, Elbert H. (See Pinkham, Charles S., assignor.)						
Brock, John F., Sparta, Wis. Garment-stretcher	622,112	Mar. 28	2924	663	86	2108
Brock, John W., *et al.* (See Elliott, James A., assignor.)						
Brock, Walter S., *et al.* (See Elliott, James A., assignor.)						
Brock, William E., Plainfield, N. J. Driving and steering mechanism for cycles	627,680	June 27	2742	601	87	2204
Brock, William E., Plainfield, N. J. Portable building	638,494	Dec. 5	592	122	89	1979
Brock, William M. (See Herrick and Brock.)						
Brockelt, Hermann, Dresden, Germany. Telephone-circuit	631,150	Aug. 15	2651	600	88	1277
Brockhurst, George A., Orinda Park, Cal. Sidehill-harrow draft attachment	622,793	Apr. 11	1092	253	87	227

Alphabetical list of patentees—Continued.

Name, residence, and invention.	No.	Date.	Monthly volume.		Official Gazette.	
			Spec.	Dr'g.	Vol.	Page.
Brockie, James, London, England. Automatic lathe	627,385	June 20	2187	479, 480, 481	87	2079
Brockie, James, London, England. Automatic lathe	633,419	Sept. 19	2315	543, 544, 545, 546	88	2188
Brockmann, Henry, Jr., assignor of one-half to H. Mertens, Homewood, Ill. Cultivator	623,071	Apr. 11	1584	365	87	323
Brockmann, Henry F., assignor to William Glenny Glass Company, Cincinnati, Ohio. Screw-cap	638,317	Dec. 5	244	51	89	1913
Brockmeyer, Albert C. (See Brockmeyer, Benjamine F. and A. C.)						
Brockmeyer, Benjamine F. and A. C., St. Louis, Mo. Mail-box	638,622	Dec. 5	822	177	89	2023
Brockmeyer, Benjamine F and A. C., St. Louis, Mo. Mail-collection sack	638,623	Dec. 5	824	177	89	2024
Brockner-Evans Bale Tie Company. (See Manville and Weeks, assignors.)						
Brockner-Evans Bale Tie Company. (See Sobinski, Charles O., assignor.)						
Brockschmidt, August, and C. L. Stuckey, Pierce City, Mo. Lock for axle-skein nuts	624,619	May 9	1235	277	87	962
Broderick, Ernest N., Indianapolis, Ind. Brush	639,348	Dec. 19	2135	491	89	2319
Broderick, James, Winter Harbor, Me. Lawn-mower	620,098	Feb. 28	2385	540	86	1331
Broderick, Thomas M. (See Klatt, Reinhold, assignor.)						
Brodnage, William, Addieville, Ill. Tenoning-machine	622,794	Apr. 11	1093	254	87	227
Brodie, George M. (See Forsyth, John D., assignor.)						
Brodie, Patrick, Boston, Mass. Bicycle-saddle	621,895	Mar. 28	2532	571	86	2033
Brodie, William. (See Pringle and Brodie.)						
Brodt, Hermann, and J. Mueller, Elmhurst, Ill. Educational appliance	618,198	Jan. 24	2575	570	86	552
Broers, Henry, Galveston, Tex. Nailless horseshoe	627,974	July 4	28	6	88	8
Broichgans, Stephan, Milwaukee, Wis. Air-compressing apparatus	635,419	Oct. 24	2713	622	89	584
Broker, John A., New York, N. Y. Eyeglass-guard	631,927	Aug. 29	4066	912	88	1583
Bromley, Albert H., Jr., Philadelphia, Pa. Center	631,105	Aug. 15	2575	582	88	1262
Bromley, Daniel W., Wilmore, Ky. Wire fence	630,175	Aug. 1	835	180	88	887
Bromley, George D. (See Fowler, Frank, assignor.)						
Bronner, Edmond D., assignor of two-thirds to W. A. Pungs and W. W. Smith, Detroit, Mich. Journal-box	635,123	Oct. 17	2127	498	89	455
Bronson, Erskine H. and W. G., Ottawa, Canada. Match-machine	617,634	Jan. 10	1466	335	86	305
Bronson, Frank A., Binghamton, N. Y. Acoustic supporting-base for pianos	639,016	Dec. 12	1535	352	89	2185
Bronson, George S. and H. D., Beacon Falls, Conn. Last for making overshoes	639,349	Dec. 19	2136	491	89	2319
Bronson, Homer D. (See Bronson, George S. and H. D.)						
Bronson, Walter G. (See Bronson, Erskine H. and W. G.)						
Broodsky, Abram, Montreal, Canada. Treating plaster-of-paris casts	623,978	May 2	44		87	710
Brooke, Robert G., Macclesfield, England. Injector	631,273	Aug. 22	2878	650, 651	88	1340
Brooker, Charles F., Ansonia, Conn., assignor to Coe Brass Manufacturing Company, of Connecticut. Commutator-bar	624,167	May 2	420	86	87	780
Brooker, Charles F., Ansonia, Conn., assignor to Coe Brass Manufacturing Company, of Connecticut. Machine for rolling copper forms	624,429	May 2	882	199, 200	87	871
Brooker, Norton, Agency, assignor to himself, and C. H. Seaman, St. Joseph, Mo. Machine for cleaning grain	632,637	Sept. 5	772	177, 178	88	1860
Brooker, William B., Bootle, England. Latch	622,203	Apr. 4	10	2	87	4
Brooker, William B., Bootle, England. Latch	639,918	Dec. 26	3194	734	89	2548
Brookfield, Samuel M. (See Robinson, Winifred M., assignor.)						
Brookman, John H., and C. S. Blackmar, New Franklin, Mo. Nut-lock	627,568	June 27	2527	556	87	2162
Brooks, Byron A., New York, N. Y. Printing apparatus	635,649	Oct. 24	3122	718, 719, 720	89	664
Brooks, Edward J., East Orange, N. J. Snap-seal	623,941	Apr. 25	3222	743	87	674
Brooks, Edward J., East Orange, N. J. Seal	630,321	Aug. 8	1103	240	88	955
Brooks, Edward J., East Orange, N. J., assignor to E. J. Brooks & Company, New York, N. Y. Snap-seal	619,704	Feb. 14	1662	381	86	1152
Brooks, Emerson S., Toledo, Ohio. Bulletin	630,855	Aug. 15	2110	479	88	1172
Brooks, Everett W., *et al.* (See Sharpneck, William S., assignor.)						
Brooks, Franklin W., New York, N. Y., assignor to Columbia Seal Lock Company, Washington, D. C. Seal	622,599	Apr. 4	746	172	87	142
Brooks, Fred C., Paterson, N. J. Sectional wood column	623,272	Apr. 18	1996	458	87	418
Brooks, Fred C., Paterson, N. J. Sectional wood column	627,681	June 27	2745	601	87	2205
Brooks, Harry N., Orrington, Me. Machine for molding flower-pots	639,514	Dec. 19	2443	564	89	2380
Brooks, Harry W., Braddock, Pa. Trolley-stand	633,786	Sept. 26	2979	691	88	2332
Brooks, James W., *et al.*, trustees. (See Fogg, Charles H., assignor.)						
Brooks, James W., *et al.*, trustees. (See Raymond, Freeborn F., 2d, assignor.)						
Brooks, John, *et al.*, trustees. (See Fogg, Charles H., assignor.)						
Brooks, John, *et al.*, trustees. (See Raymond, Freeborn F., 2d, assignor.)						
Brooks, John S., New York, N. Y. Combined bail and cover for vessels	622,441	Apr. 4	434	101	87	81
Brooks, John T., Baltimore, Md. Shoe-holder for polishing	632,776	Sept. 12	1079	250	88	1936
Brooks, Karmell, assignor to K. Brooks, New York, N. Y. Chainless bicycle-gear	617,635	Jan. 10	1469	336	86	305
Brooks, Kate. (See Brooks, Karmell, assignor.)						
Brooks, Mott B., Oak Point, N. Y. Spraying-machine	622,664	Apr. 11	883	203	87	187
Brooks, Mott B., Rochester, N. Y. Spraying-machine	632,801	Sept. 12	1132	261	88	1947
Brooks, Robert W., Parker's Groove, Ky. Post-hole digger	630,483	Aug. 8	1459	326	88	1021
Brooks, Walter G., Buffalo, N. Y. Horseshoe-calk	639,658	Dec. 19	2707	622	89	2435
Brooks, William D., Baltimore, Md. Can-soldering machine	632,986	Sept. 12	1459	339, 340	88	2009
Brooks, William W., and J. W. Weaver, Lebanon, Pa. Hygienic refuse-receptacle	639,017	Dec. 12	1536	352	89	2186
Broome, Lewis H., Jersey City, N. J. Bottle-stopper	626,885	June 13	1275	279	87	1879
Broome, Lewis H., Jersey City, N. J. Bottle-stopper	626,886	June 13	1276	279	87	1879
Broome, Lewis H., Jersey City, N. J. Bottle-stopper	632,006	Aug. 29	4215	948	88	1613
Broome, Lewis H., Jersey City, N. J. Metallic angle-piece for walls	632,007	Aug. 29	4216	949	88	1613
Brophy, John P., assignor to Cleveland Machine Screw Company, Cleveland, Ohio. Lathe attachment for cutting irregular forms	616,887	Jan. 3	31	6	86	8
Brophy, Michael M., London, England. Heat-radiator	628,689	July 11	1420	330	88	295
Brophy, Michael M., London, England. Cock or valve	634,197	Oct. 3	391	100	89	81
Brosnan, Michael, Chicago, Ill. Hopper-car	626,748	June 13	966	219	87	1819
Brossoit, James J., Butte, Mont. Machine-drill sharpener	625,140	May 16	2170	493	87	1159
Brostrom, Carl A., Moline, Ill. Harrow	629,652	July 25	3160	737	88	670
Brotan, Johann, Linz, Austria-Hungary. Steam-generator	621,442	Mar. 21	1664	368, 369	86	1848
Brotherhood, Peter, Lambeth, England. Triple-cylinder engine	618,775	Jan. 31	3621	809	86	768
Brotherhood, Peter, London, England. Centrifugal governor	630,773	Aug. 8	1962	443	88	1118

Alphabetical list of patentees—Continued.

Name, residence, and invention.	No.	Date.	Monthly volume.		Official Gazette.	
			Spec.	Dr'g.	Vol	Page.
Brotherhood, Peter, London, England. Direct-acting air-compressing engine	634,389	Oct. 3	793	190 191	89	157
Brothers, Alvah A. (See Dyer, Henry W., assignor.)						
Brough, John, Manchester, Conn. Line-holder	623,072	Apr. 11	1585	365	87	323
Brough, John, Manchester, Conn Bicycle driving-gear	626,525	June 6	562	130	87	1723
Broughton, Ernest C. (See Broughton, Fred G. and E C.)						
Broughton, Fred G., Anerley, England, and E. C. Broughton, Calcutta, India. Sack-lifter	640,088	Dec. 26	3502	803	89	2611
Brougier, Adolph, Munich, Germany. Roasting coffee	617,434	Jan. 10	1109		86	235
Brouk, Albert, House Springs, Mo. Combined roller and pulverizer	627,474	June 27	2355	518 519	87	2128
Brouse, Joseph L., Chicago, Ill. Combined photographic-printing frame and retouching-stand	637,745	Nov. 21	3270	682	89	1651
Brouyette, Charles D., Chicago, Ill., assignor to F. Karr, Holland, Mich. Spring-wire mattress	618,386	Jan. 24	2927	646	86	620
Brouyette, Charles D, Chicago, Ill., assignor to F. Karr, Holland, Mich. Spring bed-bottom	630,968	Aug 15	2323	529	88	1213
Brower, Asher A., Topeka, Kans. Attachment for stoves	631,274	Aug. 22	2880	651	88	1341
Brower, Asher A., assignor of one-half to W. D. Payton, Emporia, Kans. Oil-burner	625,141	May 16	2173	493	87	1160
Brower, Carrie E. and D. W., Paterson, N. J. Reclining-chair	629,540	July 25	2963	991	88	633
Brower, Daniel W. (See Brower, Carrie E. and D. W.)						
Brower, John, San Francisco, Cal. Wall for buildings	627,960	June 27	3238	710	87	2306
Browett, Alec, London, England. Device for generating and burning acetylene gas	627,386	June 20	2189	481	87	2079
Browett, Ethel S., Coventry, England. Means for fastening curtains to their supporting-rings	621,213	Mar. 14	1257	278	86	1759
Brown, Aaron B. J., San José, Cal. Device for stopping runaway horses	626,317	June 6	185	45	87	1648
Brown, Adna, assignor to Parks & Woolson Machine Company, Springfield, Vt. Cloth-rest for cloth-shearing machines	630,969	Aug. 15	2324	529 530	88	1214
Brown, Alexander E., Cleveland, Ohio. Pig-breaking machine	628,069	July 4	202	45, 46	88	40
Brown, Alexander E., Cleveland, Ohio. Equalizing-trolley	631,981	Aug. 29	4164	936	88	1602
Brown, Alexander T., Syracuse, N. Y. Type-writing machine	616,888	Jan. 3	32	7, 8, 9	86	8
Brown, Alexander T., Syracuse, N. Y., assignor to W. L. Smith, trustee. Switching apparatus	634,871	Oct. 17	1653	388 389	89	361
Brown, Alfred, assignor of one-half to E. A. McElroy, Ottawa, Canada. Bicycle-support	634,439	Oct. 10	888	214	89	195
Brown, Allie M. (See Brown, John O., assignor.)						
Brown, Alvan S., *et al.* (See Thurston, Horace, assignor.)						
Brown, Alvin, Aurora. Ill. Street-sweeper	637,704	Nov. 21	3201	665	89	1637
Brown, Andrew B., Edinburgh, Scotland. Steering machinery	622,600	Apr. 4	747	173	87	142
Brown, Andrew B., Edinburgh, Scotland. Telemotor apparatus	637,705	Nov. 21	3203	666	89	1638
Brown, Andrew S., New York, N. Y. Opener or closer for skylights	618,053	Jan. 24	2272	507	86	496
Brown, Andrew S., New York, N. Y. Clamp	625,017	May 16	1944	436	87	1118
Brown, Andrew S., New York, N. Y. Locking device	632,232	Sept. 5	8	3	88	1710
Brown, Benjamin, assignor of one-half to R. R. G. Brown and A. J. Robertson, Chicago, Ill. Means for propelling vessels, &c	635,035	Oct. 17	1933	459	89	417
Brown, Benson E. (See Scott, James E., assignor.)						
Brown, Braselton T., assignor to Brown Straw Binder Company, Indianapolis, Ind. Mechanical movement	629,027	July 18	2014	469	88	429
Brown, Carl E., assignor of one-half to W. W. McCallip, Columbus, Ohio. Musical instrument	627,569	June 27	2528	556	87	2162
Brown, Charles, Lightsville, Ohio. Latch	639,515	Dec. 19	2445	565	89	2381
Brown, Charles A., assignor to Mound City Paint and Color Company, St. Louis, Mo. Paint-agitator	628,751	July 11	1521	352	88	317
Brown, Charles A., assignor to Weston Electric Company, Chicago, Ill. Method of and means for controlling systems of distribution	636,241	Nov. 7	17	4	89	928
Brown, Charles E., *et al.* (See Thurston, Horace, assignor.)						
Brown, Charles F., trustee. (See Davis, Edward, assignor.)						
Brown, Charles F., trustee. (See Julian, Gideon, assignor.)						
Brown, Charles F., trustee. (See Scales, William S., assignor.)						
Brown, Charles L., Philadelphia, Pa. Antifreezing apparatus	623,979	May 2	44	9	87	710
Brown, Charles M., Chicago, Ill. Projectile	636,485	Nov. 7	438	97	89	1009
Brown, Charles P., Omaha, Nebr. Heater for thawing frozen earth, &c	629,740	July 25	3318	775	88	701
Brown, Charles W., Somerville, assignor to Chapin, Wood & Co., Boston, Mass. Smoke-consuming device for furnaces	621,214	Mar. 14	1258	278	86	1759
Brown, Christian H., Philadelphia, Pa. Ophthal dynameter	623,131	Apr. 18	1729	400	87	364
Brown, Clabourn C. and W. E., Pendleton, Ind. Gas and oil separator	629,845	Aug. 1	168	39	88	754
Brown, Colbert W., Leonard, Tex. Driving mechanism for gins	634,800	Oct. 10	1515	356	89	317
Brown, Cornelius M., assignor of one-half to G. L. Nevius, Newark, N. J. Badge	621,290	Mar. 14	1402	311	86	1786
Brown, Cornelius M., Newark, assignor of one-half to G. Watts, Plainfield, N. J. Electrical knob	622,177	Mar. 28	3051	691 692	86	2135
Brown, Cornelius M., Newark, assignor of one-half to G. Watts, Plainfield, N. J. Knob for doors, bells, &c	622,665	Apr. 11	884	203	87	188
Brown, D. R., *et al.* (See Hanson, Joseph H., assignor.)						
Brown, Daniel V., *et al.* (See Hermance, Robert, assignor.)						
Brown, David J., New York, N. Y. Trolley	618,534	Jan. 31	3202	708 709	86	685
Brown, David W. (See Brown, James H. and D. W.)						
Brown, Dennis, Somerset, Ky. Cut-out cock for engineers' valves	632,093	Aug. 29	4375	983	88	1644
Brown, Edmond H., Port Alleghany, Pa., assignor of nine-tenths to J. M. Keeny, W. R. Ventres, C. O. Dolley, M. A. Lillibridge, G. Ploof, S. L. Young, J. B. Colcord, P. Brider, S. C. Sartwell, and J. B. Southard. Gang-edger	636,316	Nov. 7	152	33	89	951
Brown, Edward L., Calverton, N. Y. Railway-tie	618,220	Jan. 24	2609	577	86	558
Brown, Edward L., San Francisco, Cal. Label-holder for bottles or packages	639,350	Dec. 19	2137	491 492	89	2319
Brown, Edward R. (See Lowell and Brown.)						
Brown, Egbert B., Maywood, Ill. Journal-lubricator	628,921	July 18	1831	426	88	394
Brown, Egbert B., Maywood, Ill. Journal-box	629,949	Aug. 1	414	89	88	804
Brown, Eugene H., Bennington, assignor to Union Raveler Company, North Bennington, Vt. Trimming and raveling attachment for machines for sewing looped fabrics	629,149	July 18	2246	520	88	474
Brown, Frank C. (See Beal and Brown.)						
Brown, Frank C., Loveland, assignor of one-half to O. D. Shields, Larimer county, Colo. Leveling or grading instrument	630,856	Aug. 15	2112	479	88	1172
Brown, Frank F., *et al.* (See Hards, Edward, assignor.)						
Brown, Frank H., *et al.* (See Sibley, Josiah, assignor.)						
Brown, Frank R., Albuquerque, N. Mex Ter. Hand-rail column	634,936	Oct. 17	1751	416	89	380
Brown, Franklin, Philadelphia, Pa., assignor to James Smith & Company, Incorporated, Philadelphia, Pa., and Charleston, W. Va. Rod-packing	632,638	Sept. 5	773	178	88	1860

Alphabetical list of patentees—Continued.

Name, residence, and invention.	No.	Date.	Monthly volume.		Official Gazette.	
			Spec.	Dr'g.	Vol.	Page.
Brown, Fred H., Chicago, Ill. Electroharmonic signaling apparatus for telephone systems	622,645	Apr. 4	837	193	87	159
Brown, Fred H., Chicago, Ill. Electric signaling apparatus for telephone systems	622,646	Apr. 4	840	194	87	159
Brown, George, Boston, Mass. Folding couch	623,593	Apr. 25	2579	590	87	552
Brown, George, Boston, Mass. Bed-spring	636,734	Nov. 7	957	206	89	1126
Brown, George, and E. Dick, Auburn, Me. Automatic tension-governor for warp-beaming machines. (Reissue)	11,791	Nov. 21	3296	688	89	1657
Brown, George A., New Holland, Ohio. Farm-gate	629,420	July 25	2731	634	88	588
Brown, George H., and W. E. Burpee, Manchester, N. H. Exhibiting or displaying appliance	629,232	July 18	2374	551	88	498
Brown, George T., assignor to T. Brown, Freeland, Pa. Cyclometer	634,610	Oct. 10	1187	281, 282	89	253
Brown, George W. (See Stech, Stephen, assignor.)						
Brown, Gottfried, Evansville, Ind. Valise-handle	622,324	Apr. 4	225	51	87	43
Brown, Harrison H., Fond du Lac, Wis. Holdback attachment for vehicles	628,301	July 4	663	155	88	128
Brown, Harry E., New Matamoras, Ohio. Steam-engine reversing-valve	618,776	Jan. 31	3622	809, 810	86	768
Brown, Harry E., Grinnell, Iowa. Firearm	624,620	May 9	1236	277	87	962
Brown, Harry R., Minneapolis, Minn. Picture-support	620,271	Feb. 28	2693	618	86	1389
Brown, Henry, Swartz, Ohio. Cultivator	632,639	Sept. 5	774	178	88	1860
Brown, Henry S. (See McIntosh, Thomas M., assignor.)						
Brown, Henry S., Easton, Pa. Removable-tooth milling-cutter	630,081	Aug. 1	675	145	88	856
Brown, Henry T., Wilkinsburg, Pa. Brake for street-car trailers	635,650	Oct. 24	3129	720	89	665
Brown, Herbert O., Bethel, Me. Dust-pan	633,787	Sept. 26	2980	691	88	2333
Brown, Hiram J., New York, N. Y. Apparatus for receiving and delivering mail-bags	627,294	June 20	1984	437	87	2039
Brown, Horace, Reading, Mass. Antifriction-bearing	618,558	Jan. 31	3247	721	86	694
Brown, Horatio M., assignor to Farrel Foundry and Machine Company, Ansonia, Conn. Double tool-holder for machine-tools	628,752	July 11	1522	352	88	318
Brown, J. H. (See Ellingson, Andrew I., assignor.)						
Brown, Jacob, Manchester, England. Washboiler	639,844	Dec. 26	3072	705	89	2523
Brown, James H. (See Gilman, Norton, and Brown.)						
Brown, James H. and D. W., Shaner, Pa. Device for assisting vehicles off car-tracks	622,036	Mar. 28	2791	629	86	2083
Brown, James I., Ottumwa, Iowa. Bracket for holding window-sashes	632,510	Sept. 5	542	126	88	1814
Brown, James W., Brockton, Mass. Soil-pipe and roof connection	621,320	Mar. 21	1466	324	86	1811
Brown, Joab Q., Bethany, Mo. Toy	629,653	July 25	3161	737	88	670
Brown, Joe A., *et al.* (See Sinclair, Clark, assignor.)						
Brown, John. (See Poyser and Brown.)						
Brown, John, Rockwood, Oreg. Gage for saws	633,420	Sept. 19	2318	546	88	2189
Brown, John D. C., assignor of one-half to L. Waters, Chicago, Ill. Distilling apparatus	623,880	Apr. 25	3109	716	87	653
Brown, John E., Alton, assignor to Mornenent & Wright, Limited, East Harling, England. Excavating-scoop	627,387	June 20	2190	481, 482	87	2079
Brown, John H. (See Horning, Ralph T., assignor.)						
Brown, John H. (See Miller, Upsure D., assignor.)						
Brown, John H., Allentown, N. Y. Window-bead fastener	629,887	Aug. 1	254	57	88	770
Brown, John H., Reading, Pa. Tubular structure	630,585	Aug. 8	1647	368	88	1058
Brown, John H., Rural Retreat, Va. Harrow	640,089	Dec. 26	3504	803, 804	89	2612
Brown, John H., Rural Retreat, Va. Harrow-tooth fastening	640,090	Dec. 26	3506	804	89	2612
Brown, John L., Bowenfels, New South Wales. Calculating device	624,621	May 9	1238	277	87	963
Brown, John L., and J. R. Tanner, Allegheny, Pa. Furnace	638,089	Nov. 28	3909	823	89	1798
Brown, John O., assignor to A. M. Brown, Columbus, Ohio. Gas-engine	635,294	Oct. 24	2431	566, 567	89	530
Brown, John R., Oakland, and J. S. Brown, Alameda, Cal. Tanning	625,638	May 23	3047	------	87	1355
Brown, John R., Oakland, and J. S. Brown, Alameda, Cal. Apparatus for treating hides	629,490	July 25	2868	667	88	614
Brown, John S. (See Brown, John R. and J. S.)						
Brown, John S., Jersey City, N. J., assignor to Springer Torsion Balance Company, Jersey City, N. J., and New York, N. Y. Weighing-balance	637,746	Nov. 21	3271	682	89	1651
Brown, John W., assignor to Collins Plow Company, Quincy, Ill. Lever attachment	637,075	Nov 14	1627	352	89	1274
Brown, Joseph, St. Louis, Mo. Self-propelling dredge-boat and jetty	636,626	Nov. 7	717	157	89	1066
Brown, Leonard, Otterbein, Ind. Steering-gear	626,483	June 6	489	114	87	1708
Brown, Leonard, Otterbein, Ind. Steam steering-gear for portable engines	626,484	June 6	491	114	87	1708
Brown, Lewis O., Toledo, Ohio, assignor of one-half to J. Q. Palmer, Phelps, N. Y. Coffin-case	623,273	Apr. 18	1997	458	87	418
Brown, Lewis S., Columbus, Ohio. Coin-controlled bicycle-pump	626,268	June 6	82	20, 21	87	1630
Brown, Lorenzo D., Elkhart, Ind. Thill-coupling	617,142	Jan. 3	548	130	86	107
Brown, Michael, *et al.* (See White, Cornelius A., assignor.)						
Brown, Millard F., Kansas City, Mo. Flour chest or bin	630,322	Aug. 8	1105	241	88	955
Brown, Morris H., New York, N. Y. Rail, bar, or pipe bender	630,484	Aug. 8	1460	327	88	1021
Brown, Mortimer L., Appleton, Ohio. Dust-conveying attachment for sawmills	631,615	Aug. 22	3507	790	88	1466
Brown, Norman E., St. Joseph, Mich., assignor to American Mercantile Company, Dayton, Ohio. Machine for manufacturing dishes or trays	621,215	Mar. 14	1260	278, 279, 280	86	1759
Brown, Ole A., Lawrenceburg, Tenn. Combined rocking-chair and lounge	637,706	Nov. 21	3205	666	89	1638
Brown, Owen J., Manchester, England. Valve for pneumatic tires, &c.	637,919	Nov. 28	3603	755	89	1739
Brown, Perry, Wilmington, Del. Rail-joint	630,444	Aug. 8	1384	310	88	1006
Brown, Perry, Wilmington, Del. Draft mechanism	632,912	Sept. 12	1345	309	88	1986
Brown, Peter, Greeley, Colo. Potato-digger	628,444	July 11	928	216	88	198
Brown, Rachel R. G., *et al.* (See Brown, Benjamin, assignor.)						
Brown, Richard, and J. R. Dixon, Akron, Ohio. Carbureter	625,084	May 16	2064	464	87	1140
Brown, Richard P., *et al.* (See Breeding, John W., assignor.)						
Brown, Robert, and J. Quinn, Belfast, Ireland. Hemstitch sewing-machine	629,421	July 25	2732	634, 635	88	588
Brown, Robert A., assignor of twelve twenty-fifths to J. D. Toomey, Jr., and J. T. Lynch, Bridgeport, Conn. Snow-plow	635,993	Oct. 31	3803	875	89	810
Brown, Robert B., Washington, D. C. Eraser attachment	630,774	Aug. 8	1962	443	88	1119
Brown, Robert P., *et al.* (See Craw, Joseph T., assignor.)						
Brown, Robert S., assignor to New Britain Machine Company, New Britain, Conn. Chain mortising-machine	621,026	Mar. 14	937	204, 205	86	1695
Brown, Robert S., assignor of one-half to G. D. Bowman, Bluefield, W. Va. Train-pipe hose-coupling	621,764	Mar. 21	2275	513	86	1968
Brown, Robert S., assignor to New Britain Machine Company, New Britain, Conn. Saw-clamp	632,694	Sept. 12	929	216	88	1905
Brown, Samuel H., and W. G. Lincoln, Boston, Mass.; said Brown assignor to said Lincoln. Advertising device	628,194	July 4	437	104	88	88
Brown, Samuel L., Devereaux, Ga. Liquid-meter	635,036	Oct. 17	1934	459	89	417
Brown, Samuel O., Rexville, N. Y. Curtain-ring	635,295	Oct. 24	2434	567	89	530

Alphabetical list of patentees—Continued.

Name, residence, and invention.	No.	Date.	Monthly volume. Spec.	Monthly volume. Dr'g.	Official Gazette. Vol.	Official Gazette. Page.
Brown, Samuel P., Bridgeport, Conn., assignor to G. C. Batcheller, New York, N. Y. Sewing-machine presser-foot	617,075	Jan. 3	414	102	86	80
Brown, Seth A., assignor to Buffalo Dental Manufacturing Company, Buffalo, N. Y. Vulcanizer	630,650	Aug. 8	1765	397 398	88	1079
Brown & Sharpe Manufacturing Company. (See Beale, Oscar J., assignor.)						
Brown & Sharpe Manufacturing Company. (See Burnham, William G., assignor.)						
Brown & Sharpe Manufacturing Company. (See Davenport, William S., assignor.)						
Brown & Sharpe Manufacturing Company. (See Norton, Charles H., assignor.)						
Brown & Sharpe Manufacturing Company. (See Parks, Edward H., assignor.)						
Brown & Sharpe Manufacturing Company. (See Spalding and Thurston, assignors.)						
Brown & Sharpe Manufacturing Company. (See Worsley, Samuel L., assignor.)						
Brown, Spencer F., and C. Beauchêne, Lake Linden, Mich. Bevel-square	628,753	July 11	1524	352	88	318
Brown, Stanton H. (See Scott and Brown.)						
Brown Straw Binder Company. (See Brown, Braselton T., assignor.)						
Brown, Theodore P., Worcester, Mass. Self-playing attachment for musical instruments	634,872	Oct. 17	1655	390	89	362
Brown, Thomas. (See Brown, George T., assignor.)						
Brown, Thomas. (See Robinson, George, assignor.)						
Brown, Thomas, and B. C. Moore, assignors to themselves and S. Ross, Washington, D. C. Smokeless furnace	629,654	July 25	3162	737	88	671
Brown, Thomas T., assignor of eleven-twentieths to H. C. Misner & Co. and E. J. Haselline, Euclid, Minn. Bean-harvester	634,873	Oct. 17	1658	390 391	89	362
Brown, Thurman G., Gillespieville, Ohio. Railway-spike or nail puller	639,887	Dec. 26	3127	719	89	2534
Brown, Tristram D., assignor to Lisk Manufacturing Company, Limited, Canandaigua, N. Y. Bottom for sheet-metal vessels	636,752	Nov. 14	1004	214	89	1151
Brown, Wallace. (See Harrison and Brown.)						
Brown-Westhead, George M., Colwyn Bay, England. Fastener for umbrella-covers	629,541	July 25	2965	691	88	633
Brown, William B., Baltimore, Md. Engine	638,318	Dec. 5	245	51,52	89	1913
Brown, William C., Springfield, Mass. Clamp for saddle-posts	630,176	Aug. 1	836	180	88	888
Brown, William D., Savannah, Ga. Rat-trap	633,068	Sept. 12	1594	371	88	2036
Brown, William E. (See Brown, Clabourn C. and W. E.)						
Brown, William E., Elbridge, N. Y. Washing-machine	617,850	Jan. 17	1894	422	86	409
Brown, William E., Brink Haven, Ohio. Shingle-sawi g machine	630,027	Aug. 1	568	125	88	835
Brown, William F. (See Fitzgerald, Peter J., assignor.)						
Brown, William H., Indianapolis, Ind. Illuminated antislipping walk-way	629,950	Aug. 1	416	90	88	804
Brown, William H., Indianapolis, Ind. Tread	629,951	Aug. 1	417	90	88	804
Brown, William M., Johnstown, Pa. Inclosed electric switch	617,715	Jan. 17	1625	365	86	355
Brown, William M., Johnstown, Pa. Timing device	633,951	Sept. 26	3250	758	88	2387
Brown, William M., Johnstown, Pa., assignor, by mesne assignments, to Lorain Steel Company, of Ohio. Magnetic closer for electric railways	618,162	Jan. 24	2518	559	86	542
Brown, William M., Johnstown, Pa., assignor, by mesne assignments, to Lorain Steel Company, of Ohio. Electric railway	627,475	June 27	2356	519	87	2128
Brown, William M., Johnstown, Pa., assignor, by mesne assignments, to Lorain Steel Company, of Ohio. Contact-box for electric railways	627,476	June 27	2357	519	87	2129
Brown, William M., Johnstown, Pa., assignor to Steel Motor Company, of Ohio. Electric-motor control	618,163	Jan. 24	2519	559	86	542
Brown, William M., Johnstown, Pa., assignor to Johnson Company, of Pennsylvania. Electric railway	627,477	June 27	2359	519	87	2129
Brown, William N., Quincy, Ill. File	631,694	Aug. 22	3636	820	88	1492
Brown, William P., Racine, Wis. Bridle-bit	632,439	Sept. 5	420	93	88	1789
Brown, Willis B., Auburn, Ind. Shifting device for self-binding machines	628,645	July 11	1336	311	88	278
Brown, Willis B., Auburn, Ind. Shifting device for self-binding machines	628,646	July 11	1339	312	88	279
Browne, Allsey O., Louisville, Ky. Game	630,485	Aug. 8	1462	327	88	1022
Browne, Arthur W., New York, N. Y., assignor to S. S. White Dental Manufacturing Company, Philadelphia, Pa. Head-rest	619,272	Feb. 14	904	204	86	1005
Browne, Arthur W., New York, N. Y., assignor to S. S. White Dental Manufacturing Company, Philadelphia, Pa. Syringe-nozzle	625,434	May 23	2699	615	87	1285
Browne, Arthur W., and G. L. Harrison, New York, N. Y., assignors to S. S. White Dental Manufacturing Company, Philadelphia, Pa. Cotton-holder and waste-receptacle	620,222	Feb. 28	2611	593	86	1372
Browne, Frank L. (See Alexander, Jesse, assignor.)						
Browne, Frank L., and W. T. Norton, Washington, D. C. Device for facilitating and economizing business transactions	635,731	Oct. 24	3288	759	89	695
Browne, Ross E., San Francisco, Cal., assignor to Fraser & Chalmers, Limited, London, England. Means for raising water from mine-shafts, &c	628,219	July 4	479	115	88	95
Browne, William F., New York, N. Y., assignor of one-half to C. R. Knapp, Somerville, N. J. Coin-controlled mechanism for electric meters	620,537	Feb. 28	3154	722 723	86	1477
Brownell, Alexander C., assignor of one-half to H. T. McDonald, Providence, R. I. Roller-bearing for carriage-wheels	617,802	Jan. 17	1810	404	86	392
Brownell, Charles E. (See Tebbetts, Charles F., assignor.)						
Brownell, Clarence M., Stroudsburg, Pa. Revolving guard for cycle-chains	622,442	Apr. 4	435	101	87	81
Brownell & Company. (See Brownell, John R., assignor.)						
Brownell, George L., Worcester, Mass. Winding mechanism	621,484	Mar. 21	1752	390	86	1865
Brownell, Henry B., assignor to E. Davis, New York, N. Y. Inkstand	626,218	June 6	10	3	87	1616
Brownell, John R., assignor to Brownell & Company, Dayton, Ohio. Water-tube boiler	636,627	Nov. 7	719	157	89	1066
Browning, John H., Crested Butte, Colo. Dinner-pail	617,803	Jan. 17	1811	405	86	392
Browning, John M., Ogden, Utah. Gas-operated firearm	621,747	Mar. 21	2241	506	86	1961
Browning, John M., Ogden, Utah, assignor to Winchester Repeating Arms Company, New Haven, Conn. Magazine-firearm	619,132	Feb. 7	637	137 138	86	936
Browning, John M., Ogden, Utah, assignor to Winchester Repeating Arms Company, New Haven, Conn. Bolt-gun	632,094	Aug. 29	4376	983 984	88	1644
Broyles, Robert E., assignor of one-half to W. E. Rape, Chattanooga, Tenn. Dumping-car	634,874	Oct. 17	1661	391	89	363
Brubaker, David M., Shenandoah, Iowa. Composition of matter for a soot-destroyer	617,700	Jan. 10	1596	------	86	330
Brubaker, George P., Berlin, Pa. Split pulley	639,351	Dec. 19	2138	492	89	2319
Brubaker, James W., Tracy, Iowa. Wagon end-gate	630,651	Aug. 8	1767	398	88	1079
Brubaker, Levi K., Lititz, Pa. Refrigerating apparatus for water-supply systems	622,113	Mar. 28	2925	663	86	2109
Bruce, Albert J., Milwaukee, Wis. Leather-gage	621,518	Mar. 21	1816	403	86	1877
Bruce, Charles J., Boston, Mass. Paint compound	632,095	Aug. 29	4380	------	88	1645
Bruce, James N., London, Canada. Windmill	631,982	Aug. 29	4166	936 937	88	1602
Bruce, Matthew, *et al.* (See Moore, Thomas W., assignor.)						
Bruch, Andrew A. (See Flory and Bruch.)						
Brucker, Francis. (See Stump and Brucker.)						
Bruckmann, Gustav T., New York, N. Y. Composition of matter	632,096	Aug. 29	4381	984	88	1645
Bruckner, Charles C., New York, N. Y. Petroleum-burner	632,865	Sept. 12	1243	284	88	1969
Bruckner, Charles C., New York, N. Y. Petroleum incandescent lamp	632,866	Sept. 12	1245	285	88	1970
Bruckner, Charles C., New York, N. Y. Petroleum incandescent burner	633,117	Sept. 19	1727	405	88	2073

Alphabetical list of patentees—Continued.

Name, residence, and invention.	No.	Date.	Monthly volume.		Official Gazette.	
			Spec.	Dr'g.	Vol.	Page.
Bruckner, Charles C., New York, N. Y. Hydrocarbon vaporizer and burner	635,465	Oct. 24	2803	640	89	603
Brucks, Louis, Canal Dover, Ohio. Lock-seam for sheet-metal pipes	632,440	Sept. 5	421	93	88	1789
Brueckner, Richard, Boston, assignor to Holtzer-Cabot Electric Company, Brookline, Mass. Magneto-bell striker	625,923	May 30	3595	816	87	1478
Bruesewitz, Emil, Milwaukee, Wis. Plow	628,573	July 11	1180	276	88	247
Bruhn, George, Winona, Minn. Automatic wagon-brake	623,881	Apr. 25	3111	716	87	653
Bruhns, Henry R., San Francisco, Cal. Electric elevator-alarm	628,597	July 11	1210	283	88	254
Bruhns, Julius, assignor of one-half to J. Landenberger, Philadelphia, Pa. Newspaper-holder	619,068	Feb. 7	513	108	86	910
Brumder, William C., and J. Rogginger, Milwaukee, Wis.; said Rogginger assignor to said Brumder. Alarm device	630,857	Aug. 15	2113	479	88	1172
Brummeler, Alfred J., Grand Rapids, Mich. Implement for spraying plants	620,272	Feb. 28	2694	618	86	1389
Brun, Camille and G., St. Etienne, France. Needle-loom	639,018	Dec. 12	1538	352	89	2186
Brun, Denis, London, England. Portable refrigerating-case for transporting frozen goods	624,168	May 2	420	86	87	780
Brun, Gerdt M. (See Irgens and Brun.)						
Brun, Gustave. (See Brun, Camille and G.)						
Brunbauer, Ferdinand, Vienna, Austria-Hungary. Injector	624,430	May 2	884	200	87	871
Bruneau, David Y., Sherbrooke East, Canada. Attachment for stoves	626,485	June 6	493	114	87	1709
Bruner, Martin, Buckland, Ohio. Corn-harvester	618,493	Jan. 31	3129	692	86	671
Bruner, Walter. (See Marsh, Crosley, and Bruner.)						
Brunhoff Manufacturing Company. (See Lehmann, Charles J., assignor.)						
Brunk, Christian H., Harrisonburg, Va. Wire-grip	624,449	May 9	923	206	87	902
Brunn, Henry, Buffalo, N. Y. Carriage-pole	634,550	Oct. 10	1089	258	89	234
Brunnée, Richard, Göttingen, Germany. Scale-beam	634,495	Oct. 10	984	235	89	214
Brunnemer, William T. M., Bradley, assignor to David Bradley Manufacturing Company, Chicago, Ill. Cultivator	631,415	Aug. 22	3133	710, 711	88	1391
Brunnemer, William T. M., Bradley, assignor to David Bradley Manufacturing Company, Chicago, Ill. Spring lifting device for agricultural implements	631,416	Aug. 22	3137	711	88	1392
Brunnemer, William T. M., Bradley, assignor to David Bradley Manufacturing Company, Chicago, Ill. Draft device for agricultural implements	631,983	Aug. 29	4169	937, 938	88	1603
Bruns, Henry F. A., and F. E. Eldridge, Waverly, Iowa. Automatic windmill-regulator	630,445	Aug. 8	1386	311	88	1007
Bruns, John W., Fremont, Iowa. Hay or grain rack	622,601	Apr. 4	748	173	87	142
Bruns, Justus. (See Buck, John, assignor.)						
Brunswick-Balke-Collender Company. (See Mussey, William P., assignor.)						
Brunswick-Balke-Collender Company. (See Wiggins, William H., assignor.)						
Brunswick, Fredrick L., Oswego, N. Y. Razor-sharpening device	620,273	Feb. 28	2695	618	86	1389
Brunswig, Heinrich, Siegburg, assignor to Vereinigte, Köln-Rottweiler Pulver Fabriken, Cologne, Germany. Transforming fibrous cellulose into a dense material	622,325	Apr. 4	226	------	87	43
Brush, George E., Danbury, Conn. Hat-pouncing machine	631,984	Aug. 29	4170	938	88	1603
Brush, George E., Danbury, Conn. Hat-pouncing machine	631,985	Aug. 29	4172	938	88	1603
Bruton, Qualls, Kansas City, Kans. Cattle-chute	620,099	Feb. 28	2386	540, 541	86	1331
Bruyn, Howard. (See Wyatt and Bruyn.)						
Bryan, Annie V. (See Elder, John, assignor.)						
Bryan, Dempsey T., Rocky Mount, N. C., assignor of one-half to J. W. Ramsey, Baltimore, Md. Back-band buckle	624,431	May 2	886	201	87	872
Bryan, Thomas A. (See Day and Bryan.)						
Bryan, Thomas A., Baltimore, Md. Acetylene-gas generator	626,363	June 6	286	65	87	1670
Bryan, Thomas A., Baltimore, Md. Safety-valve	633,421	Sept. 19	2319	546	88	2189
Bryans, James H., Woodbine, Iowa. Alarm-clock	627 901	June 27	3141	687	87	2285
Bryant, Charles A., Wakefield, Mass., assignor to Consolidated Safety Pin Company, Bloomfield, N. J. Fastener	620,223	Feb. 28	2612	593	86	1372
Bryant, Charles A., Wakefield, Mass., assignor to Patent Button Company, Waterbury, Conn. Button	626,408	June 6	364	85	87	1684
Bryant, Ellsworth S., Detroit, Mich. Bicycle	632,306	Sept. 5	185	42	88	1743
Bryant, Elwin C. (See Osborne, William S., assignor.)						
Bryant, Fred L., Chicago, Ill. Steering device for tandem bicycles	629,335	July 25	2573	596	88	555
Bryant, George W. (See Macfarlane and Bryant.)						
Bryant, George W., and T. C. Townsend, Gravesend, England. Fountain-pen	623,461	Apr. 18	2325	533	87	486
Bryant, Henry, Aransas Pass, Tex. Acetylene-gas generator	633,545	Sept. 19	2519	592	88	2227
Bryant, John J., *et al.* (See Severance, William N., assignor.)						
Bryant, Thomas W., Torrington, Conn. Skate	622,838	Apr. 11	1182	275	87	243
Bryant, Waldo C., Bridgeport, Conn. Weatherproof socket for incandescent electric lamps	626,588	June 6	664	154	87	1743
Bryce, Alexander F. (See Bryce, Peter F. and A. F.)						
Bryce Baking Company. (See Bryce, Peter F. and A. F., assignors.)						
Bryce, Peter F. and A. F., assignors to Bryce Baking Company, Chicago, Ill. Bread-making machine	638,090	Nov. 28	3911	823	89	1799
Brydges, Samuel M., assignor to C. D. J. Christie, Nelson, Canada. Letter-file	622,940	Apr. 11	1364	313	87	278
Bryon, William J., Jr., New York, N. Y. Exercising apparatus	629,655	July 25	3163	737, 738	88	671
Bryon, William J., Jr., New York, N. Y. Exercising apparatus	634,080	Oct. 3	162	42	89	36
Bryson, David K., Pittsburg, Pa. Wave-power motor	639,352	Dec. 19	2141	492	89	2320
Bryson, Newton T. (See Ogden, George, assignor.)						
Bubb, John S., Kittanning, Pa. Combined air-operated car-coupling and train-pipe-coupling mechanism	620,564	Mar. 7	9	2,3	86	1504
Bubb, John S., Kittanning, Pa. Automatically-operated bicycle-pump	631,773	Aug. 29	3811	849	88	1533
Bubser, Fidel, Hartford, Conn., assignor to Pope Manufacturing Company, Hartford, Conn., and Portland, Me. Tube-washing apparatus	620,224	Feb. 28	2613	594	86	1372
Buchanan, Charles P., *et al.* (See Gilliland, Ezra T., assignor.)						
Buchanan, David, Auburn, Victoria. Potato-digger	630,177	Aug. 1	837	180	88	888
Buchanan, Frank A. (See Buchanan, Horace, assignor.)						
Buchanan, Horace, assignor to F. A. Buchanan, Little Falls, N. Y. Pencil-sharpener	622,882	Apr. 11	1268	292	87	259
Buchanan, John B., assignor of one-half to I. M. Jacobus, Newark, N. J. Polishing device	636,111	Oct. 31	4050	926	89	858
Buchanan, John P., Boston, Mass., assignor to Union Switch and Signal Company, Swissvale, Pa. Electrical signal system	618,328	Jan. 24	2799	621	86	595
Buchanan, Marque, Windsor, assignor of one-third to J. Baxter, Fairland, Ill. Swing-rail frog	637,229	Nov. 21	1952	416	89	1351
Buchel, Jules, and F. McGloin, New Orleans, La. Automatic car-brake	619,933	Feb. 21	2091	475	86	1260
Bucher, Albert L., North Baltimore, Ohio. Vehicle-rack	636,949	Nov. 14	1388	295, 296	89	1227
Bucher, Francis E., Spanish Town, Jamaica. Treating logwood extracts	637,707	Nov. 21	3206	------	89	1638
Bucher & Gibbs Plow Company. (See Ream, George W., assignor.)						
Bucher, Peter, Mannheim, Germany. Acetylene-gas generator	639,516	Dec. 19	2446	565	89	2381

Alphabetical list of patentees—Continued.

Name, residence, and invention.	No.	Date.	Monthly volume.		Official Gazette.	
			Spec.	Dr'g.	Vol.	Page.
Buchholz, August H., Washington, Mo. Stapling-machine	621,748	Mar. 21	2245	506 507	86	1962
Buchhop, Ferdinand. (See Meyrowitz and Buchhop.)						
Buchmann, Bruno, Wiesbaden, Germany. Tongue-scraper	619,466	Feb. 14	1232	281	86	1069
Buchner, Hans, Munich, Germany. Cycle driving mechanism	629,765	Aug. 1	11	4	88	723
Buchner, Maurice F., New Brighton, England. Bust-pad and chest-protector	626,589	June 6	665	154	87	1743
Buchtel, Joseph, Portland, Oreg. Wooden-block pavement	619,934	Feb. 21	2093	476	86	1261
Buchtel, Joseph, Portland, Oreg. Mining-caisson	621,216	Mar. 14	1267	280	86	1760
Buchwalder, Adolf, assignor to J. B. Hall, Philadelphia, Pa. Matting	617,076	Jan. 3	416	102	86	81
Buchwalter, Calvin H., assignor of one-fourth to E. J. Dumée, Philadelphia, Pa. Street-indicator for cars	624,906	May 16	1760	397	87	1083
Buchwalter, Calvin H., assignor of one-fourth to E. J. Dumée, Philadelphia, Pa. Street or station indicator for cars, &c	625,538	May 23	2870	653	87	1320
Buchwalter, Edward L., and G. P. Oates, assignors to Superior Drill Company, Springfield, Ohio. Agitator for fertilizer-feed for seeding-machines	627,478	June 27	2362	520	87	2130
Buck, Alvin D., Hites, Pa. Shutter-adjuster	633,788	Sept. 26	2981	692	88	2333
Buck, Cornelius A., San Francisco, Cal. Truck	635,037	Oct. 17	1938	460	89	418
Buck, Daniel A. A., New Haven, Conn. Kaleidoscope	630,652	Aug. 8	1769	398	88	1080
Buck, Ervin. (See Harden and Buck.)						
Buck, Henry A., Thompsonville, Conn. Stencil-cutting machine	630,970	Aug. 15	2326	530	88	1214
Buck, Harold W., Schenectady, N. Y., assignor to General Electric Company, of New York. Device for imparting end play to shafts	625,826	May 30	3410	774 775	87	1442
Buck, Harold W., Schenectady, N. Y., assignor to General Electric Company, of New York. Speed-indicator	634,937	Oct. 17	1752	416	89	381
Buck, Henry A., London, England. Rotary engine	639,659	Dec. 19	2708	623	89	2435
Buck, John. (See McIntire, Jacob N., assignor.)						
Buck, John, Weehauken, assignor to J. Bruns, Union, N. J. Bowling-alley	635,913	Oct. 31	3646	841	89	779
Buck, Joseph W., Baltimore, Md. Window, door, or store awning	618,777	Jan. 31	3625	810	86	769
Buck, William F. (See Groutage, James, assignor.)						
Buck, William Y., Bristol, Conn. Holder for electroplating	625,489	May 23	2792	635	87	1305
Buckbee, William A., Rensselaer, N. Y. Locomotive exhaust-pipe	633,566	Sept. 26	2579	604	88	2255
Buckelew, Charles H. (See Buckelew, Peter R., assignor.)						
Buckelew, Charles H., Plainfield, N. J. Submarine tunnel	634,322	Oct. 3	672	162	89	135
Buckelew, Peter R., assignor to himself and C. H. Buckelew, Plainfield, N. J. Pencil-sharpener	636,112	Oct. 31	4052	927	89	859
Buckeye Manufacturing Company. (See Bowlus, Charles D., assignor.)						
Buckham, George T. (See Dawson and Buckham.)						
Buckham, George T., and C. A. Larsson, London, assignors to Vickers, Sons & Maxim, Limited, Sheffield, England. Mounting for machine-guns	634,390	Oct. 3	794	191 192	89	157
Buckingham, Albert E., assignor of eleven-sixteenths to W. De Pons, F. Klingeberg, Oakland, H. C. Sexton and A. Castelazo, San Francisco, Cal. Device for making cigarettes	638,904	Dec. 12	1332	303	89	2146
Buckingham, Charles L., and E. Germann, New York, N. Y., assignors to Western Union Telegraph Company, of New York. Method of and means for preventing electric sparking	634,198	Oct. 3	392	101	89	81
Buckius, Albert O., Chicago, Ill., assignor to National Malleable Castings Company, Cleveland, Ohio. Spring-seat for car-springs	623,942	Apr. 25	3224	743	87	675
Buckland, Seth J., Springfield, Mass. Appliance for track-rails of street-railways	619,069	Feb. 7	514	108	86	910
Buckley, Edward F. (See Buckley, Thomas J., assignor.)						
Buckley, James, Liverpool, assignor of two-thirds to J. H. Buckley, Chew Moor, and E. Ashworth, Manchester, England. Spinning-machine	632,172	Aug. 29	4525	1018 1019	88	1674
Buckley, John H., *et al.* (See Buckley, James, assignor.)						
Buckley, John J., assignor of one-half to H. Ritter, New York, N. Y. Car-fender	638,699	Dec. 12	982	219	89	2077
Buckley, Joseph, Billerica, Mass. Strainer for vessels	639,208	Dec. 19	1876	433	89	2265
Buckley, Michael G. F., New York, N. Y. Plaster-block	625,869	May 30	3497	792	87	1459
Buckley, Robert C., Peoria, Ill. Combined cultivator and seeder	623,513	Apr. 25	2423	556	87	524
Buckley, Thomas J., Chicago, Ill., assignor of one-half to E. F. Buckley, Washington, D. C. Lubricator	631,275	Aug. 22	2881	651 652	88	1341
Buckley, William, Sheffield, England. Lathe	619,859	Feb. 21	1971	448	86	1238
Bucklin, Harry, assignor, by mesne assignments, to G. W. Rief, Manchester, N. H. Wall-rack for drying clothes	620,274	Feb. 28	2697	618	86	1390
Buckman, Dilworth J. (See Mullins, John E., assignor.)						
Buckminster, Prescott S., San Francisco, Cal. Sluice, runway, or flume	630,971	Aug. 15	2329	531	88	1215
Buckner, Luther A. (See Campbell, Victor E., assignor.)						
Buckwalter, Joseph A., Royersford, Pa., assignor to Buckwalter Stove Company, of Pennsylvania. Stove-damper	621,599	Mar. 21	1956	437	86	1905
Buckwalter Stove Company. (See Buckwalter, Joseph A., assignor.)						
Budd, Edward G. (See Fowler and Budd.)						
Budd, Edward G., Philadelphia, Pa., assignor to American Pulley Company, of Pennsylvania. Die for forming sheet-metal pulley-rims	634,284	Oct. 3	590	146	89	118
Buddenbohn, Charles L., and W. Speer, Baltimore, Md. Fire-escape	624,432	May 2	888	201	87	872
Buddeus, Wilhelm, Munich, assignor to L. Preussner, P. Itzig, Charlottenburg, and G. Oppenheimer, Berlin, Germany. Obtaining thorium oxids	617,636	Jan. 10	1472	------	86	306
Buddington, Frank E., Chicago, Ill. Adjustable pattern-drafting apparatus	618,392	Jan. 31	2945	652	86	638
Buderus, William C. (See Goetze, Max, assignor.)						
Budgett, Harry B. (See Bailey and Budgett.)						
Budlong, Joseph J., Chicago, Ill. Vegetable-sorter	621,788	Mar. 28	2322	522	86	1992
Bueb, Julius, Dessau, Germany. Extracting cyanogen from coal-gas	625,964	May 30	3668	832	87	1492
Buehl, William A. (See Lewis, George G., assignor.)						
Buehler, John G., assignor to Columbia Machine Co., New York, N. Y. Anchor for overhead wires	617,804	Jan. 17	1811	405	86	392
Buehler, Louis, Detroit, Mich. Toy pistol	630,775	Aug. 8	1963	444	88	1119
Buehler, Rudolph R., Philadelphia, Pa., assignor to Philadelphia Hardware and Malleable Iron Works, of Pennsylvania. Register or ventilator	629,336	July 25	2574	597	88	555
Buehler, Rudolph R., Philadelphia, Pa., assignor to Philadelphia Hardware and Malleable Iron Works, of Pennsylvania. Register or ventilator	636,892	Nov. 14	1265	271 272	89	1204
Buek, Charles E. (See Allison and Buek.)						
Buek, Charles E., assignor to Universal Stripping Machine Company, Richmond, Va. Automatic feeder for tobacco-leaf-stemming machines	624,450	May 9	924	207	87	902
Buel, David, Columbus, Ohio. Anvil	630,323	Aug. 8	1106	241	88	955
Buell, George C., Boston, Mass. Duplex switch for telephones	623,352	Apr. 18	2142	493	87	447
Buell, Joseph W., Washington, D. C. Printing attachment for roll-paper holders	628,445	July 11	929	216	88	198
Buergermeister, Emil F. (See Flicek, Edward, assignor.)						
Buerk, Christ, Toledo, Ohio. Noodle-machine	625,739	May 30	3232	734	87	1408
Buerkle, August, Allegheny, Pa. Gas-burner	637,849	Nov. 28	3465	723 724	89	1710

Alphabetical list of patentees—Continued.

Name, residence, and invention.	No.	Date.	Monthly volume. Spec.	Monthly volume. Dr'g.	Official Gazette. Vol.	Official Gazette. Page.
Buerkle, August, Allegheny, Pa. Gas-burner	637,850	Nov. 28	3466	724	89	1710
Buffalo Dental Manufacturing Company. (See Brown, Seth A., assignor.)						
Buffalo Dental Manufacturing Company. (See Lewis, Theodore G., assignor.)						
Buffalo Dental Manufacturing Company. (See Lewis and Bailey, assignors.)						
Buffington, Leroy S., Minneapolis, Minn. Apparatus for generating acetylene gas	617,896	Jan. 17	1993	445	86	428
Buffington, Leroy S., Minneapolis, Minn. Carbid-cartridge	635,296	Oct. 24	2435	567	89	530
Buffington, Leroy S., Minneapolis, Minn., assignor to Buffington Light Company, of New Jersey. Acetylene-gas-generating lamp	621,217	Mar. 14	1269	281	86	1761
Buffington Light Company. (See Buffington, Leroy S., assignor.)						
Bufford, George W., New York, N. Y. Sprocket-wheel for cycle-chains	619,537	Feb. 14	1351	310	86	1094
Buffum, Herbert H., Abington, Mass. Eyeleting-machine	626,050	May 30	3876	880, 881	87	1529
Buffum, Herbert H., Abington, Mass., assignor, by mesne assignments, to McKay Shoe Machinery Company, of Maine. Apparatus for making slug or nail strips	639,694	Dec. 19	2787	642, 643	89	2450
Bugbee, George W., Delhi, assignor to J. A. Fay & Egan Company, Cincinnati, Ohio. Planing and matching machine	639,353	Dec. 19	2142	493	89	2320
Bugg, Leo, New York, N. Y. Curtain-fixture	630,028	Aug. 1	570	125	88	836
Buggé, Rasmus, London, England. Means for preventing spread of fire	623,305	Apr. 18	2054	471, 472	87	430
Bughman, David W. (See Murphy and Bughman.)						
Buhl Stamping Company. (See Sealy, William H., assignor.)						
Bühler, Emil von, Berlin, Germany. Incasing liquid or semiliquid goods	636,317	Nov. 7	153	33	89	952
Buick, David D., Detroit, Mich. Flushing-tank	630,586	Aug. 8	1649	368	88	1058
Buis, Idelle W. (See Buis, Lemuel, assignor.)						
Buis, Lemuel, Little Rock, Ark., assignor to I. W. Buis. Wheel-tightening device	620,639	Mar. 7	170	36	86	1535
Bukey, Dudley D., McPherson, Kans. Horse-power	630,198	Aug. 15	2727	617	88	1293
Bukolt, Philomena. (See Josefkowicz, John, assignor.)						
Buland, Knut, Linn Grove, Iowa. Thill-coupling	621,485	Mar. 21	1753	391	86	1866
Buley, Thomas M., and W. W. Wagg, Toronto, Canada; said Buley assignor to said Wagg. Detachable carrying-bracket for bicycles	637,762	Nov. 28	3306	691	89	1676
Bull, Johannes C., London, England. Alloy	632,233	Sept. 5	10	------	88	1711
Bullard Camera Company. (See Bullard and Smith, assignors.)						
Bullard, Edgar R., and C. C. Smith, assignors to Bullard Camera Company, Wheeling, W. Va. Magazine plate-holder	619,860	Feb. 21	1973	448, 449	86	1238
Bullard, Fred P., Brockton, assignor to A. Seaver, Boston, Mass. Machine for stretching uppers	635,124	Oct. 17	2128	498, 499	89	456
Bullard, Henry W. (See Crawford and Bullard.)						
Bullard, Henry W. (See Crawford and Bullard.) (Reissue.)						
Bullard, James H., Springfield, Mass. Clamp for saddle-posts, &c	618,639	Jan. 31	3385	753	86	720
Bullard, James H., Springfield, Mass. Device for automatically regulating supply of liquid fuel to boilers of automobile vehicles	638,495	Dec. 5	594	123	89	1980
Bullard, James H., assignor of one-half to H. A. Chapin, Springfield, Mass. Brake for bicycles	623,498	Apr. 18	2388	549	87	498
Bullens, Albert N., Newton, Mass. Fastener for garments, &c	637,445	Nov. 21	2353	508	89	1431
Bulley, Louis T., and A. W. Johnson, New Haven, Conn. Gas and air mixer	633,789	Sept. 26	2982	692	88	2333
Bullier, Louis M., Paris, France. Burner for acetylene gas	624,169	May 2	422	87	87	780
Bullis Ball-Gear Company. (See Bullis, Frederick O., assignor.)						
Bullis, Frederick O., assignor, by mesne assignments, to Bullis Ball-Gear Company, Rochester, N. Y. Gear-wheel	638,795	Dec. 12	1144	255	89	2109
Bullivant, William P., London, England. Torpedo-net	620,734	Mar. 7	368	75	86	1573
Bullock, Berton M. (See Hay and Bullock.)						
Bullock Electric Manufacturing Company. (See Cooper, Warren, and Mudge, assignors.)						
Bullock, John, Wilmington, Del. Dumping-wagon	635,420	Oct. 24	2716	622, 623	89	585
Bulova, Joseph, New York, N. Y. Bicycle-crank	631,276	Aug. 22	2883	652	88	1341
Bültzingslöwen, Bruno von, assignor to Incandescent Mantle Machine Company, New York, N. Y. Machine for inserting shirring-strings into blanks of incandescent mantles	638,004	Nov. 28	3769	790, 791, 792	89	1770
Bumbaugh, George W. and H., Salem, Ohio. Riveting-tool	622,204	Apr. 4	11	3	87	4
Bumbaugh, Harvey. (See Bumbaugh, George W. and H.)						
Bumford, Emanuel, Columbus, Ohio. Rolls for forming horseshoe-bars	624,433	May 2	891	201	87	873
Bumgarner, Virgil W., San Francisco, Cal. Hydrocarbon-gas burner	623,650	Apr. 25	2673	613	87	569
Bump, Charles H., Brandon, Vt. Box-machine	630,528	Aug. 8	1547	345	88	1037
Bump, Charles H., assignor to Newton & Thompson Manufacturing Company, Brandon, Vt. Machine for gluing on bottoms of wooden boxes	618,375	Jan. 24	2884	640	86	610
Bump, George P., South Superior, Wis., assignor of one-half to W. Howard, Marshalltown, Iowa. Windmill-regulating pump	621,789	Mar. 28	2324	522	86	1992
Bumpus, George D., Zelienople, Pa. Engine	638,624	Dec. 5	825	177, 178	89	2024
Bundy, Charles C., Freeman, Mo. Milking-machine	631,774	Aug. 29	3815	849	88	1534
Bundy, Frank E., assignor to Frank E. Bundy Lamp Company, Elmira, N. Y. Acetylene-gas generator	616,889	Jan. 3	47	9	86	11
Bundy, Henry C., Watertown, assignor to Gamewell Fire Alarm Telegraph Company, New York, N. Y. Means for testing signaling-circuits	635,010	Oct. 17	1889	449	89	409
Bundy Manufacturing Company. (See Boynton, Alonzo R., assignor.)						
Bundy Manufacturing Company. (See Bundy, Willard L., assignor.)						
Bundy, Willard L., Binghamton, N. Y., assignor to Bundy Manufacturing Company, of New York. Type-writing and adding machine	617,560	Jan. 10	1330	299, 300, 301	86	278
Bundy, William, J. M. Doan, and S. Heslet, Penn, Mich. Tire	618,836	Feb. 7	32	7	86	810
Bunn, John, Binghamton, N. Y. Cigar-header	636,194	Oct. 31	4202	965	89	890
Bunn, William E. S., and E. J. Case, Peoria, Ill. Manufacture of lead oxid	639,209	Dec. 19	1877	433	89	2265
Bunnell, Jesse H., New York, N. Y. Telegraphic sounder	627,799	June 27	2955	646	87	2247
Bunnell, Morton G., assignor to F. C. Austin, Chicago, Ill. Machine for making and repairing roads	618,024	Jan. 17	2210	493, 494	86	469
Bunnell, Morton G., assignor to F. C. Austin, Chicago, Ill. Machine for making and repairing roads	633,637	Sept. 26	2724	634, 635	88	2280
Bunnell, Morton G., assignor to F. C. Austin, Chicago, Ill. Dumping-car	634,682	Oct. 10	1310	309	89	278
Bunnell, Morton G., assignor to F. C. Austin, Chicago, Ill. Dumping-car	634,683	Oct. 10	1313	310	89	279
Bunnell, Morton G., assignor to F. C. Austin, Chicago, Ill. Dumping-car	634,684	Oct. 10	1315	310, 311	89	279
Bunnell, Morton G., assignor to F. C. Austin, Chicago, Ill. Dumping-wagon	635,421	Oct. 24	2718	624	89	585
Bunyea, L. Gifford, Gladwin, Mich. Folding washbench	628,574	July 11	1181	276	88	248
Bunyea, Walter J., assignor of one-third to F. C. Crocker, Denver, Colo. Tong-truck	638,661	Dec. 5	883	194	89	2037
Bunzl, Julius, assignor to I X L Tamale Company, San Francisco, Cal. Canned tamales	620,084	Feb. 21	2357	------	86	1310
Burch, Charles E. S., and A. L. Kasson, Seattle, Wash. Gas-producer	619,538	Feb. 14	1352	311	86	1094

Alphabetical list of patentees—Continued.

Name, residence, and invention.	No.	Date.	Monthly volume. Spec.	Monthly volume. Dr'g.	Official Gazette. Vol.	Official Gazette. Page.
Burch, Clarance V., Terre Haute, Ind. Cartridge implement	619,273	Feb. 14	907	205	86	1005
Burch, Henry C., and J. W. Walling, Amity, Oreg. Dust-shield for vehicle-hubs	636,628	Nov. 7	720	158	89	1067
Burchard, Alonzo H., assignor of one-half to J. O. Smith, Colorado Springs, Colo. Electric hair-brush	627,295	June 20	1988	438	87	2040
Burchard, Richard D., assignor of one-half to W. Winkler, Macon, Mo. Buggy-top joint	638,552	Dec. 5	687	145	89	1997
Burchell, Norval L., Washington, D. C. Electrical switch	625,639	May 23	3048	694	87	1355
Burchett, Walter. (See Hull and Burchett.)						
Burckard, August, assignor of one-half to F. T. Dorton, Baltimore, Md. Coffee-pot	636,195	Oct. 31	4203	966	89	890
Burden, Edward, Grantham, England. Gas or oil stove	631,695	Aug. 22	3637	820	88	1492
Burden, Edward, Grantham, England. Gas or oil stove	635,841	Oct. 31	3502	805	89	751
Burden, Edward, Grantham, England. Burner for gas or oil stoves	637,230	Nov. 21	1954	417	89	1351
Burden, Edward, Grantham, England. Gas or oil stove	637,231	Nov. 21	1955	417	89	1351
Burden, James A., Troy, N. Y. Machine for making horseshoes	624,622	May 9	1239	278	87	963
Burden, Oscar H., and S. Lovatt, Pilot Bay, Canada. Lock	637,497	Nov. 21	2448	532	89	1449
Burdett, Albert F. (See Johnson, Charles F., assignor.)						
Burdett, Charles A. (See Ballou and Burdett.)						
Burdett, Frederick A., New York, N. Y. Mechanism for operating valves	622,114	Mar. 28	2927	664	86	2109
Burdett-Rowntree Manufacturing Company. (See Rowntree, Harold, assignor.)						
Burdick, Charles L., London, England. Pressure-gage	621,486	Mar. 21	1755	391	86	1866
Burdick, Hiram M., assignor to Syracuse Chilled Plow Company, Syracuse, N. Y. Harrow	632,777	Sept. 12	1080	250	88	1936
Burdick, Hiram M., assignor to Syracuse Chilled Plow Company, Syracuse, N. Y. Harrow	632,778	Sept. 12	1084	251, 252	88	1937
Burdick, Irving E. (See Hall and Burdick.)						
Burdick, Leo J., Sturgis, Mich. Display-rack for neckties	626,782	June 13	1044	234	87	1835
Burfield, Thomas J., Waconia, Minn. Multiplying attachment for photographic cameras	629,542	July 25	2967	692	88	634
Burg, Hubert, Mollkirch, Germany. Type-writing machine	629,233	July 18	2375	551, 552	88	498
Burg, Joseph. (See Doerflinger, Burg, and Davis.)						
Burg, Joseph, assignor to Doerflinger Artificial Limb Company, Milwaukee, Wis. Artificial limb	619,716	Feb. 21	1698	388	86	1184
Burger, Clarence L., New York, N. Y. Igniting device for gas-burners	631,267	Aug. 15	2868	647	88	1321
Burger, Clarence L., New York. N. Y. Marine vessel	631,417	Aug. 22	3138	711, 712	88	1392
Burger, Edward H., Duluth, Minn. Safety-pocket	619,861	Feb. 21	1977	449	86	1239
Burger, Frank, New York, N. Y. Asphalt apparatus	620,414	Feb. 28	2933	672, 673	86	1434
Burger, Franz. (See Williams, Henry M., assignor.)						
Burger, Franz, assignor of three-fourths to H. M. Williams, Fort Wayne, Ind. Automatic explosive compression-engine	623,980	May 2	46	10	87	710
Burger, Franz, assignor of three-fourths to H. M. Williams, Fort Wayne, Ind. Pneumatic brake and motor for vehicles	624,451	May 9	927	207	87	903
Burger, Franz, assignor of three-fourths to H. M. Williams, Fort Wayne, Ind. Explosive projectile	627,611	June 27	2626	577	87	2182
Burger, Franz, assignor of three-fourths to H. M. Williams, Fort Wayne, Ind. Revolving-piston motor-wheel	630,029	Aug. 1	572	125, 126	88	836
Burger, Franz, assignor of three-fourths to H. M. Williams, Fort Wayne, Ind. Gas-engine	632,913	Sept. 12	1346	309, 310	88	1986
Burger, Franz, assignor of three-fourths to H. M. Williams, Fort Wayne, Ind. Adjustable tie-plate	633,500	Sept. 19	2439	575	88	2212
Burger, Franz, assignor of three-fourths to H. M. Williams, Fort Wayne, Ind. Automatic horizontaling device for car-bodies	637,498	Nov. 21	2450	532	89	1449
Burger, Franz, assignor of three-fourths to H. M. Williams, Fort Wayne, Ind. Flushing apparatus for bowls, tanks, &c	638,441	Dec. 5	487	99	89	1960
Burger, Franz, assignor of three-fourths to H. M. Williams, Fort Wayne, Ind. Apparatus for utilizing momentum of moving bodies	639,706	Dec. 26	2809	648	89	2471
Burger, Franz, and H. M. Williams, Fort Wayne, Ind. Carriage ventilator and heater	618,199	Jan. 24	2577	570	86	552
Burger, Franz, and H. M. Williams, Fort Wayne, Ind.; said Burger assignor of one-half to said Williams. Attachment for raising or lowering seats of closets	621,790	Mar. 28	2325	523	86	1992
Burger, Franz, and H. M. Williams, Fort Wayne, Ind.; said Burger assignor of one-half to said Williams. Signaling apparatus	626,825	June 13	1116	250	87	1848
Burger, Franz, and H. M. Williams, Fort Wayne, Ind.; said Burger assignor of one-half to said Williams. Annunciator for cars	627,902	June 27	3142	687	87	2286
Burger, Franz, and H. M. Williams, Fort Wayne, Ind.; said Burger assignor of one-fourth to said Williams. Portable attachable curtain for fires	636,113	Oct. 31	4054	927	89	857
Burger, Moriz. (See Ostergren and Burger.)						
Burgess, Andrew, Buffalo, N. Y., assignor to Winchester Repeating Arms Company, New Haven, Conn. Automatic gun	636,196	Oct. 31	4204	966	89	890
Burgess, Charles M., assignor to Russell & Erwin Manufacturing Company, New Britain, Conn. Coat and hat hook	632,234	Sept. 5	11	3	88	1711
Burgess, Luther C., assignor to Chicago Railway Equipment Company, Chicago, Ill. Brake-beam	618,778	Jan. 31	3626	810	86	769
Burgess, Percival G., Mexico, Mexico, and H. W. Wilder, Springfield, assignors to American Bell Telephone Company, Boston, Mass. Telephone-circuit	626,826	June 13	1118	250	87	1848
Burgett, William U., Danville, Ill. Foot-power hammer	625,870	May 30	3498	792	87	1459
Burgham, Oliver H. (See Francis and Burgham.)						
Burghardt, Lucy A., and W. G. Rogers, Denver, Colo. Child's folding carriage	632,671	Sept. 5	856	199	88	1879
Burgher, Albert M., Clay City, Ky. Hose-clamping device	633,790	Sept. 26	2984	692	88	2334
Burgher, Charles, Winthrop, Mass. Thermostatic instrument	627,322	June 20	2047	451	87	2052
Burgholz, Frank C., Harrison, N. J. Faucet attachment for casks, barrels, &c	627,716	June 27	2808	615	87	2218
Burguieres, Denis P. J. (See Junca and Burguieres.)						
Burin, Henry B., Mons-en-Baroeul, France. Means for heating applicable to forges	635,229	Oct. 17	2311	539	89	490
Burk, Charles H., Chicago, Ill. Expander for bicycle-handle-bar stems	631,765	Aug. 22	3792	844	88	1516
Burk, Isaac, Lambertville, N. J. Ice-tongs	618,640	Jan. 31	3387	753	86	721
Bürk, Richard, Schwenningen, Germany. Counting apparatus	627,975	July 4	30	6	88	8
Bürk, Richard, Schwenningen, Germany. Electric clock	630,178	Aug. 1	839	180	88	888
Burkart, Nicolas, House Springs, assignor of one-half to P. Mauer, Manchester, and J. Steinmeyer, St. Louis, Mo. Combined vehicle brake and step	632,779	Sept. 12	1088	252	88	1938
Burke, Eli, assignor of one-third to H. Luethje, Tama, Iowa. Tree-felling device	638,553	Dec. 5	687	145	89	1997
Burke, Henry, and D. James, Chicago, Ill. Photographic washing-box	620,565	Mar. 7	14	3	86	1505
Burke, James, Minneapolis, Minn. Track-laying machine	630,324	Aug. 8	1107	242	88	955
Burke, James, New York, N. Y. Electric motor or generator	631,518	Aug. 22	3329	756	88	1430
Burke, Percy W., Chicago, Ill. Steam-boiler	626,526	June 6	563	130	87	1723
Burke, Richard F., Williamsburg, Mass. Bung and tap for barrels	619,133	Feb. 7	644	138	86	937
Burke, Richard P., and J. R. Donegan, St. Louis, Mo. Toy	628,519	July 11	1077	251	88	227

Alphabetical list of patentees—Continued.

Name, residence, and invention.	No.	Date.	Monthly volume. Spec.	Monthly volume. Dr'g.	Official Gazette. Vol.	Official Gazette. Page.
Burke, Rua E., Mount Tabor, Oreg. Adjustable flower-pot	637,763	Nov. 28	3307	691	89	1676
Burke, Sarah A. B., Muskogie, Ind. Ter. Fan attachment for sewing-machines	619,935	Feb. 21	2094	476	86	1261
Burke, Thomas F., Perth Amboy, N. J. Ash-can	634,551	Oct. 10	1090	258	89	235
Burke, William J., Scranton, Pa. Composition of matter for paving, &c., and forming same	629,766	Aug. 1	12	------	88	724
Burke, William S. (See Witz, Richard H., assignor.)						
Burkett, George L., Chicago, Ill. Steam boiler and furnace	620,566	Mar. 7	15	3	86	1505
Burkhardt, Gustave. (See Nicholas and Burkhardt.)						
Burkhardt, Gustave, Chicago, Ill. Bowling-alley light and pin-indicator	626,590	June 6	666	154	87	1743
Burkhardt, Martin L., Minneapolis, Minn. Buckle	635,743	Oct. 31	3313	764	89	714
Burkhart, Charles G. (See Miller, Reuben B., assignor.)						
Burkhart, Charles L., assignor of one-half to J. W. Stevens, Dayton, Wash. Hydrant	637,077	Nov. 14	1630	352	89	1275
Burkhart, Daniel G., Dayton, Wash. Cultivator	636,753	Nov. 14	1006	214	89	1152
Burkhart, George W., Detroit, Mich. Jar-closure	616,890	Jan. 3	49	9	86	12
Burkhart, Samuel H., and A. Kunkel, Johnstown, Pa. Automatic fire and burglar alarm	625,378	May 23	2599	592	87	1267
Burkholder, John H., Ashland, Ohio. Self-locking sling-pulley	625,924	May 30	3597	817	87	1478
Burkman, Simon, Chicago, Ill. Combined clothes-line and clothes-pin holder	634,519	Oct. 10	1026	245	89	222
Burleigh, Fred N., Friend, Nebr. Adjustable fastener for shirt-bands and collars	625,539	May 23	2871	654	87	1320
Burleigh, Samuel G., and M. T. Bigelow, Grand Rapids, Mich.; said Bigelow assignor of one-half to said Burleigh. Fire-escape	631,763	Aug. 22	3789	844	88	1515
Burlich, Henry, and G. Walzel, New York, N. Y. Zinc bed for printing purposes	637,920	Nov. 28	3604	755	89	1739
Burlingham, Lucious D., assignor of one-half to H. Weyand, Berlin, Pa. Dough-raiser apparatus	626,000	May 30	3779	861	87	1514
Burner, Frank V., Elko, Nev. Hay-press	623,394	Apr. 18	2212	507, 508	87	461
Burnett, Henry D., Peterborough, Canada. Tennis-court marker	632,891	Sept. 12	1311	301	88	1980
Burnett, Nelson R. H., Clay Brook, Tenn. Peanut-roaster	633,791	Sept. 26	2986	693	88	2334
Burnett, William H., Poughkeepsie, N. Y. Closet	622,205	Apr. 4	12	3	87	5
Burnett, William H., Poughkeepsie, N. Y. Pipe connection	622,326	Apr. 4	227	51	87	43
Burnham, Arthur M., assignor to A. M. Spear, Gardiner, Me. Mop-wringer	619,664	Feb. 14	1579	360	86	1135
Burnham, Charles, *et al.* (See Burnham, Oliver K., assignor.)						
Burnham, Cornelius A., Holly, Mich. Wire-fence device	630,653	Aug. 8	1771	399	88	1080
Burnham, Frank A., assignor to Chandler & Price Company, Cleveland, Ohio. Platen printing-press	624,452	May 9	929	207, 208	87	903
Burnham, Isaac N., South Mills, N. C. Nut-lock	639,144	Dec. 12	1743	402	89	2226
Burnham, Lester A., Columbus, Ohio. Dumping-wagon	628,978	July 18	1925	449	88	412
Burnham, Oliver K., assignor of one-half to G. Martin and C. Burnham, Palouse, Wash. Holder or buckle for stirrup-straps	635,230	Oct. 17	2313	539	89	490
Burnham, William G., assignor to Brown & Sharpe Manufacturing Company, Providence, R. I. Gear-cutting machine	621,519	Mar. 21	1817	403, 404	86	1877
Burns, Charles F., Kalamazoo, Mich. Vehicle running-gear	619,539	Feb. 14	1355	311	86	1094
Burns, Clem G., assignor of two-thirds to A. F. Morris and I. Koch, Alliance, Ohio. Game apparatus	631,004	Aug. 15	2381	542	88	1225
Burns, Edward, assignor to Stanley Works, New Britain, Conn. Door-bolt	621,896	Mar. 28	2533	572	86	2033
Burns, Edward A., Hartford, Conn. Gas-bracket	620,692	Mar. 7	285	57	86	1557
Burns, Eugene A., Worcester, Mass., assignor of one-half to W. Case. Last	622,941	Apr. 11	1365	313	87	278
Burns, George M. (See Irving, James A., assignor.)						
Burns, Georgia S., Indianapolis, Ind., and S. H. Minnick, deceased; G. S. Burns, administratrix. Shoe-blacking chair	633,422	Sept. 19	2320	547	88	2189
Burns, James F., Philadelphia, Pa. Can-filler	633,792	Sept. 26	2987	693	88	2334
Burns, John A., Woodbine, Iowa. Egg-separator	633,423	Sept. 19	2321	547	88	2190
Burns, Martin, *et al.* (See Moore, James A., assignor.)						
Burns, Matthew A. (See King and Burns.)						
Burns, Matthews A., *et al.* (See Downey, Richard F., assignor.)						
Burns, Peter C. (See Meissner, William O., assignor.)						
Burns, Peter C., Chicago, Ill. Telephone-transmitter	623,702	Apr. 25	2760	632	87	586
Burns, Peter C., Chicago, Ill. Telephone-receiver	625,142	May 16	2174	493	87	1160
Burns, Robert, Chicago, Ill., and C. K. Pickles, St. Louis, Mo.; said Pickles assignor to B. E. Tilden, Chicago, Ill. Pneumatic hammer	635,422	Oct. 24	2719	624	89	586
Burns, Robert H., New York, N. Y. Smoke-preventing apparatus	617,805	Jan. 17	1813	405	86	392
Burns, Robert H., New York, N. Y. Smoke-preventing apparatus	632,672	Sept. 5	858	200	88	1879
Burns, Samuel, Jersey City, N. J. Sectional boiler for water and steam heating	619,862	Feb. 21	1978	449	86	1239
Burns, Tom B. (See Parnall, William, assignor.)						
Burns, William E., *et al.* (See Fullen, Jefferson, D., assignor.)						
Burnside, William H., *et al.* (See Malven, James H., assignor.)						
Burpee, Frank W. (See Letson and Burpee.)						
Burpee, Wilfred E. (See Brown and Burpee.)						
Burr Bobbin Holder and Thread Catcher Company. (See Burr, Oliver C., assignor.)						
Burr, Charles F., and J. S. Hendrickson, San Fernando, Cal. Composition of matter for closing punctures in pneumatic tires	633,638	Sept. 26	2726	------	88	2281
Burr, Frederick P., Middletown, Conn. Ice-cream freezer	637,078	Nov. 14	1631	353	89	1275
Burr, John A., assignor of three-fourths to O. L. King, Agawam, Mass. Lawn-mower	624,749	May 9	1459	329	87	1007
Burr, Nelson, Batavia, Ill. Clothes-line reel	629,984	Aug. 1	473	102	88	816
Burr, Oliver C., North Adams, Mass. Bobbin-holder and thread-catcher for spindles	627,249	June 20	1893	418	87	2021
Burr, Oliver C., North Adams, Mass., assignor to Burr Bobbin Holder and Thread Catcher Company, of Maine Bobbin and thread holder for spindles of spinning-machines	621,218	Mar. 14	1273	281	86	1761
Burr, William F., assignor of one-half to O. L. King, Agawam, Mass. Switching device for railways	636,197	Oct. 31	4207	967	89	891
Burrall, George B. (See Whyland, Frank V., assignor.)						
Burrell & Co., D. H. (See Burrell, Loomis, assignor.)						
Burrell & Co., D. H. (See Feldmeier, Harvey, assignor.)						
Burrell & Co., D. H. (See Gillette, George D., assignor.)						
Burrell & Co., D. H. (See Morgan and Lane, assignors.)						
Burrell, Loomis, assignor to D. H. Burrell & Co., Little Falls, N. Y. Centrifugal liquid-separator	624,907	May 16	1762	398	87	1083
Burress, Charles E., Andale, Kans. Chimney-top	638,172	Nov. 28	4092	863	89	1832
Burridge, Lee S., New York, N. Y. Type-writing machine	634,285	Oct. 3	593	146, 147	89	119
Burridge, Lee S., assignor to Century Machine Company, New York, N. Y. Type-writing machine	639,660	Dec. 19	2710	623, 624	89	2435
Burris, William P., Salem, Ohio. Pencil-holder	638,796	Dec. 12	1145	255	89	2110
Burroughs, Charles E., New York, assignor to N. P. Otis, Yonkers, N. Y. Battery	636,318	Nov. 7	154	34	89	952
Burrous, Richard O., and W. M. Brewer, Pierson, Ill. Draft-equalizer	618,779	Jan. 31	3627	811	86	769
Burrows, Amos E., Picture Rocks, assignor of one-half to E. Keeler Company, Williamsport, Pa. Automatic feed-water regulator	618,981	Feb. 7	366	75,76	86	881
Burrows, Charles, Schenectady, N. Y. Ruling-machine	619,717	Feb. 21	1700	389	86	1185

Alphabetical list of patentees—Continued.

Name, residence, and invention.	No.	Date.	Monthly volume.		Official Gazette.	
			Spec.	Dr'g.	Vol.	Page.
Burrows, Joseph A., Akron, Ohio. Tire	623,703	Apr. 25	2761	632	87	586
Burrows, Joseph A., assignor to Goodyear Tire and Rubber Company, Akron, Ohio. Rubber-tire-setting machine	635,914	Oct. 31	3647	841	89	779
Burrows, Taylor, assignor to Flax Combing Syndicate, Limited, London, England. Gill-box machine for preparing fibers	633,793	Sept. 26	2988	693 694	88	2334
Burrows, Taylor, assignor to Flax Combing Syndicate, Limited, London, England. Combing-machine	633,794	Sept. 26	2989	694 695	88	2335
Burrows, Taylor, assignor to Flax Combing Syndicate, Limited, London, England. Machine for combing vegetable fibers	633,795	Sept. 26	2990	695	88	2335
Burson, Amos, Negley, assignor of one-half to J. W. Thompson, Salem, Ohio. Loop or keeper for straps	619,540	Feb. 14	1356	312	86	1095
Burson, Amos, Negley, assignor of one-half to J. W. Thompson, Salem, Ohio. Buckle-shield	626,051	May 30	3881	881	87	1530
Burson, John E., assignor of one-half to W. Jones, Martin's Ferry, Ohio. Metal-plate catcher, brander, and polishing machine	620,085	Feb. 21	2358	534	86	1310
Burt, Adoniram J. (See Parsons and Burt.)						
Burt, Alfred H., Buffalo, N. Y. Display-package	623,594	Apr. 25	2581	590	87	553
Burt, Allen D., assignor of one-half to W. H. Adams, Bellaire, Ohio. Means for transferring steel from vessels or furnaces to molds	623,073	Apr. 11	1587	366	87	323
Burt, C. I., *et al.* (See Jarmin, James B., assignor.)						
Burt, Eli A., New York, N. Y. Adjustable clasp for mourning hat-bands	624,170	May 2	422	87	87	781
Burt, Eli A., and H. Harris, New York, N. Y. Mourning-band for hats	630,179	Aug. 1	840	181	88	888
Burt, Elkanah S., assignor or two-thirds to J. Burt, Glencoe, and W. E. Holbrook, West Point, Cal. Cheese-cutter	638,377	Dec. 5	369	77	89	1936
Burt, Frank, *et al.* (See Dunham, Charles L., assignor.)						
Burt, Jerome, *et al.* (See Burt, Elkanah S., assignor.)						
Burt, John H., *et al.* (See Lones, Joseph, assignor.)						
Burt, Oren C. (See McGenniss, David, assignor.)						
Burt, Taylor E., Los Gatos, Cal. Knee-pad	619,665	Feb. 14	1581	361	86	1136
Burtless, William H., Sacramento, Cal. Bed-lounge box attachment	618,264	Jan. 24	2693	596	86	573
Burton, Bethel, New York, N. Y. Magazine bolt-gun	622,443	Apr. 4	436	101 102	87	81
Burton, Charles M., assignor to H. G. Thompson & Son, New Haven, Conn. Prepayment attachment for gas-meters	621,443	Mar. 21	1667	369 370	86	1849
Burton, Charles V., London, England. Method of and apparatus for forming tubular joints	638,554	Dec. 5	689	145 146 147	89	1998
Burton, George D., Boston, Mass. Electrolytic apparatus for treating metals and ores	616,891	Jan. 3	50	10	86	12
Burton, George D., Boston, Mass. Balanced floating apparel	636,893	Nov. 14	1266	272	89	1204
Burton, Jacob S., Melvern, Kans. Woven-wire-fence fabric	623,765	Apr. 25	2860	655	87	606
Burton, James L., assignor of one-half to A. A. Johnson, New Britain, Conn. Medicine-glass	617,952	Jan. 17	2088	468	86	448
Burton, James N., assignor of one-half to J. F. Beck, Atlanta, Ga. Combined pocket-knife and match-safe	638,555	Dec. 5	693	147	89	1998
Burton, John C., Emerson, Iowa. Husking-knife	626,854	June 13	1184	263	87	1861
Burton, John M., Boston, Mass. Combined day and sleeping car	631,418	Aug. 22	3140	712	88	1392
Burton, John N., New York, N. Y. Ice-cream package	639,194	Dec. 12	1848	425	89	2246
Burton, Joseph H., Kingston, N. Y. Fountain-pen	618,164	Jan. 24	2523	559	86	543
Burton, Joseph H., Kingston, N. Y. Fountain-pen	628,690	July 11	1422	330	88	296
Burton, Josiah H., Kansas City, Mo. Adjustable desk	639,661	Dec. 19	2715	624	89	2436
Burton, Matthew, Batavia, Ill. Display-rack for measuring goods	627,045	June 13	1542	337	87	1931
Burton, Smith P., Jr., *et al.* (See Huff, Henry H., assignor.)						
Burwell, George A., Toledo, Ohio. Mechanical fastening for pneumatic tires	619,385	Feb. 14	1095	247	86	1043
Burwell, George A., Toledo, Ohio. Ball-bearing	621,219	Mar. 14	1276	281	86	1762
Burwell, George A., Toledo, Ohio. Vehicle-wheel	622,602	Apr. 4	749	174	87	142
Burwell, John, Shelby, Iowa. Extensible platform	622,666	Apr. 11	887	204	87	188
Burwell, Wilson, Summit, N. J. Boot or shoe	638,043	Nov. 28	3838	807	89	1784
Bury, Reginald. (See Senior, Bury, and Walker.)						
Busch, Albert, assignor to Anilinöl-Fabric A. Wülfing, Elberfeld, Germany. Pharmaceutical compound and making same	621,791	Mar. 28	2326	------	86	1993
Busch, Florian, New York, N. Y. Gas-stove	629,150	July 18	2249	521	88	475
Busenbenz, Jacob J. (See Rankin and Busenbenz.)						
Busenbenz, Jacob J., Chicago, Ill. Electric-circuit closer	619,936	Feb. 21	2095	476	86	1261
Busenbenz, Jacob J., assignor to National Time Recorder Company, Chicago, Ill. Electric-circuit closer	636,486	Nov. 7	439	97	89	1010
Buser, William E., Chillicothe, Ohio. Furniture-leg	625,965	May 30	3669	833	87	1492
Busey, Albert J., Urbana, Ill. Wagon-body or hay-rack lifter	632,097	Aug. 29	4383	984	88	1645
Busfield, James, Haverhill, Mass. Leather-splitting machine	629,062	July 18	2072	483 484	88	441
Bush, Albert H., Louisville, Ky. Horseshoe	633,796	Sept. 26	2991	695	88	2335
Bush, Clement, Quincy, Ill. Apparatus for casting metallic wheels	628,446	July 11	931	216 217	88	198
Bush, Corydon I., Kansas City, Mo. Bracket for street-signs	635,842	Oct. 31	3503	805	89	751
Bush, Elmer L., Coal Hill, Pa. Gas-fuel burner for steam-boilers	619,274	Feb. 14	909	205	86	1006
Bush, George H. (See Leonard and Reynolds, assignors.)						
Bush, Henry, assignor to A. E. Kennedy, Dayton, Ohio. Automatic chemical fire-extinguishing system	633,970	Sept. 26	3294	768	88	2395
Bush, Hewlett, New York, N. Y. Bicycle-stand	631,948	Aug. 29	4100	919	88	1589
Bush, Hiram T., Detroit, Mich. Flushing valve or apparatus	637,499	Nov. 21	2452	532	89	1450
Bush, Martin L., Lawrence, and C. F. Swain, Methuen, Mass. Electric-alarm water-column	631,277	Aug. 22	2884	652	88	1341
Bush, Samuel G., Charlotte, Vt. Snow-plow	629,543	July 25	2968	692	88	634
Bush, Samuel P., Columbus, Ohio. Side bearing for cars	634,323	Oct. 3	674	163	89	135
Bush, Samuel P., Columbus, Ohio. Car construction	638,496	Dec. 5	596	123	89	1980
Bush, William C., Wilmington, Del. Fastening for harvester-knives	629,656	July 25	3165	738	88	671
Busha, Joseph, Pittsburg, Pa. Hose-nozzle	625,871	May 30	3499	793	87	1460
Busha, Joseph, Pittsburg, Pa. Hose-nozzle	633,069	Sept. 12	1596	372	88	2037
Bushnell, David C., Laddonia, Mo. Cultivator	627,976	July 4	31	6, 7	88	9
Bushnell, Frederic N., Providence, R. I. Steam-valve-operating mechanism	616,892	Jan. 3	52	10	86	12
Bushnell, Frederic N., Providence, R. I. Steam-engine valve mechanism	622,603	Apr. 4	751	174	87	143
Bushnell, Harley G., Minneapolis, Minn. Folding table	631,556	Aug. 22	3407	770	88	1445
Bushnell, Oscar P. (See Hickson and Bushnell.)						
Bushnell, Webster P. (See Hardy and Maple, assignors.)						
Busiel, Frank E. (See Stevens, George E., assignor.)						
Busky, John S., New York, N. Y. Fumigating shoe-tree	625,143	May 16	2175	494	87	1160
Busse, Carl L. E. (See Kühnel and Busse.)						
Busse, William J., Chicago, Ill. Ball-bearing for cycles	628,138	July 4	344	81	88	70

Alphabetical list of patentees—Continued.

Name, residence, and invention.	No.	Date.	Monthly volume.		Official Gazette.	
			Spec.	Dr'g.	Vol.	Page.
Bussey & Co., P. W. (See Hinson, James J., assignor.)						
Bustin, Hattie W. (See Housh, Frank E., assignor.)						
Bustin, Robert, St. John, Canada. Ice-skate	618,780	Jan. 31	3629	811	86	770
Butcher, Charles, Cambridge, Mass. Pole or shaft supporter	634,801	Oct. 10	1516	356	89	318
Butcher, Charles, Cambridge, Mass. Bicycle rack and locking device	636,629	Nov. 7	721	158	89	1067
Butcher, Charles, Cambridge, Mass. Bicycle rack and locking device	639,517	Dec. 19	2447	565	89	2381
Butcher, James M., Denver, Colo. Adjustable lid-supporting device	636,950	Nov. 14	1389	296	89	1227
Butcher, James M., Denver, Colo., assignor to Butcher Signal and Alarm Company, of Colorado. Bicycle-alarm	617,412	Jan. 10	1071	244	86	228
Butcher, James M., Denver, Colo., assignor to Butcher Signal and Alarm Company, of Colorado. Bicycle-alarm	617,413	Jan. 10	1072	245	86	228
Butcher, James M., Denver, Colo., assignor to T. H. Bowles, Milwaukee, Wis. Alarm mechanism	636,487	Nov. 7	441	97	89	1010
Butcher, Joseph, Melrose, Mass. Electric clock	620,864	Mar. 7	610	133, 134	86	1623
Butcher, Joseph, Jersey City, N. J. Thermostat	631,278	Aug. 22	2885	652, 653	88	1342
Butcher, Joseph, Jersey City, N. J. Automatic fire-extinguisher	637,232	Nov. 21	1956	417	89	1351
Butcher, Joseph, Jersey City, N. J. Electric clock	639,019	Dec. 12	1539	353	89	2186
Butcher Signal and Alarm Company. (See Butcher, James M., assignor.)						
Butcher Signal and Alarm Company. (See Coles, William E., assignor.)						
Butler, Alfred O., Jumbo, Ohio. Butter-worker	636,630	Nov. 7	722	158	89	1067
Butler, Dennis, Watson, Ill. Coal-car	639,145	Dec. 12	1744	402, 403	89	2226
Butler, Frederick C., Malden, Mass. Blotter	627,479	June 27	2363	520	87	2130
Butler, George. (See Butler, William A., assignor.)						
Butler, George W., Bloomington, Ill. Insulation for leading-in wires of signal-boxes	632,695	Sept. 12	932	216	88	1905
Butler Hard Rubber Company. (See Gurnee, Isaac Q., assignor.)						
Butler, Howard H., assignor of two-thirds to L. A. Rockwell and C. S. Fowler, New York, N. Y. Machine for mixing asphalt	618,535	Jan. 31	3203	709	86	686
Butler, James L., assignor of one-half to R. T. Dobson, Akron, Ohio. Automatic fire-extinguisher	620,883	Mar. 14	644	141	86	1641
Butler, James L., assignor of one-half to R. T. Dobson, Akron, Ohio. Strut for automatic fire-extinguishers	627,222	June 20	1854	406	87	2012
Butler, Joseph C., Iowa Falls, Iowa. End-gate	634,875	Oct. 17	1662	392	89	363
Butler, Leon E., Princeton, Ind., assignor of one-half to H. Vissering and L. A. Hoerr, St. Louis, Mo. Blow-off cock	634,440	Oct. 10	890	214, 215	89	195
Butler, Michael, Austin, Tex. Freight-conveyer	620,015	Feb. 21	2240	508, 509	86	1287
Butler, Michael, Dallas, Tex. Pole or climbing spur	628,070	July 4	204	46	88	41
Butler, William A., assignor of one-half to G. Butler, Cincinnati, Ohio. Bicycle-bell	616,893	Jan. 3	53	10, 11	86	13
Butler, William H., Harrison, N. Y. Machine for attaching metal tags to plug-tobacco or the like	621,220	Mar. 14	1277	281, 282, 283	86	1762
Butler, William H., Harrison, N. Y. Machine for attaching tags to plug-tobacco	621,221	Mar. 14	1281	283, 284, 493	86	1763
Butler, William H., New York, N. Y. Box filling and covering machine	639,354	Dec. 19	2146	494, 495	89	2322
Butler, William H., New York, N. Y., assignor to American Tobacco Company, Newark, N. J. Box or can	635,953	Oct. 31	3712	857	89	791
Butler, William H., assignor of one-half to A. D. Cole, Maysville, Ky. Bicycle-stand	623,981	May 2	48	10	87	711
Butter, Walter R., Maywood, and A. Marr, Chicago, assignors of one-third to B. A. Conard, Maywood, Ill. Bucket-ear	631,845	Aug. 29	3931	879	88	1557
Butterfield, George F., Stoneham, Mass. Shoe-sole vulcanizing and applying apparatus	627,840	June 27	3026	661	87	2261
Butterfield, George W., Bridgeport, Conn. Street-car-truck fender	638,442	Dec. 5	489	99	89	1960
Butterfield, Samuel W., Three Rivers, Canada. Wood-sawing machine	619,541	Feb. 14	1358	312, 313	86	1095
Butterfield, Samuel W., Three Rivers, Canada. Log-thawing apparatus	626,138	May 30	4072	929	87	1565
Butterfield, Samuel W., Three Rivers, Canada. Log-sawing machine	632,640	Sept. 5	775	179	88	1861
Butterfield, Samuel W., Three Rivers, Canada. Boiler-furnace	634,391	Oct. 3	795	192	89	158
Butterfield, William, assignor to Deering Harvester Company, Chicago, Ill. Cord knotting and holding device for grain-binders	628,071	July 4	206	46, 47	88	41
Butterworth, Albert W., Philadelphia, Pa., assignor to H. W. Butterworth & Sons Company, of Pennsylvania. Cloth-clamp for textile machinery	629,741	July 25	3320	775	88	701
Butterworth, Harry W., Philadelphia, Pa., assignor to H. W. Butterworth & Sons Company, of Pennsylvania. Machine for mercerizing	617,561	Jan. 10	1339	301	86	279
Butterworth, Harry W., Philadelphia, Pa., assignor to H. W. Butterworth & Sons Company, of Pennsylvania. Cloth-clamp for textile machinery	629,491	July 25	2869	667	88	614
Butterworth, Irvin. (See Doherty and Butterworth.)						
Butterworth, John. (See Butterworth, William H. and J.)						
Butterworth, Robert, Somerville, Mass. Safety-lock for elevators	618,025	Jan. 17	2214	494	86	470
Butterworth, William H. and J., Trenton, N. J. Gas-engine	624,750	May 9	1460	330	87	1007
Büttgenbach, Conrad, Cologne, Germany. Game	627,046	June 13	1543	337	87	1932
Buttler, William, Redkey, Ind. Apparatus for fire-finishing glassware	617,920	Jan. 17	2036	456	86	436
Buttler, William, Redkey, Ind. Method of and apparatus for making glass rollers	617,921	Jan. 17	2038	456	86	437
Buttler, William, Redkey, Ind. Method of and apparatus for heating and flaring lamp-chimneys	617,922	Jan. 17	2041	457	86	438
Buttler, William, Redkey, Ind. Manufacture of glass cylinders	617,923	Jan. 17	2042	457	86	438
Buttler, William, Redkey, Ind. Glass-melting furnace	624,290	May 2	635	139	87	820
Buttler, William, Redkey, Ind. Glass-melting furnace	624,291	May 2	637	139	87	820
Buttler, William, Redkey, Ind. Furnace for fire-finishing glassware	633,985	Oct. 3	8	2	89	4
Buttler, William, Redkey, Ind. Mold for glassware	639,146	Dec. 12	1746	403	89	2226
Buttler, William, Redkey, Ind., and H. H. Clough, Elyria, Ohio. Apparatus for forming hollow glass articles	630,284	Aug. 1	1016	224	88	923
Button, Hedley L. W., Launceston, Tasmania. Nail	621,222	Mar. 14	1284	284	86	1764
Button, Safford G., Hollister, Cal. Winding-indicator for clocks	622,667	Apr. 11	888	204	87	188
Buttrick, Abner F., Everett, Mass. Hot-water heater	619,542	Feb. 14	1359	313	86	1095
Butts, Edward A., Washington, D. C. Vapor-bath apparatus	632,802	Sept. 12	1133	261, 262	88	1947
Butts, Frank E., and G. A. Dumbeck, Erie, Pa. Saw-tooth-swaging machine	634,164	Oct. 3	337	85	89	70
Butts, George C. (See Wilson, John H., assignor.)						
Butts, John W., Springfield, Mass. Luggage-carrier	634,611	Oct. 10	1189	282	89	253
Butz, Harry S., Norristown, Pa. Fish-hook	639,355	Dec. 19	2158	495	89	2325
Butz, John F., Fort Worth, Tex. Marine puzzle or toy	628,520	July 11	1079	251, 252	88	227

Alphabetical list of patentees—Continued.

Name, residence, and invention.	No.	Date.	Monthly volume.		Official Gazette.	
			Spec.	Dr'g.	Vol.	Page.
Buxbaum, Karl, Philadelphia, Pa. Bicycle-pump	632,696	Sept. 12	932	217	88	1906
Buxton, Charles H., assignor to Dennison Manufacturing Company, Boston, Mass. Jewelry-exhibitor	635,711	Oct. 24	3228	743	89	685
Buxton, Charles L., assignor of one-half to J. P. Reeve, Sparta, Wis. Sack-holder	621,765	Mar. 21	2276	513	86	1968
Buxton, Henry L., Milwaukee, Wis. Match	623,233	Apr. 18	1919	441	87	403
Buyten, Hermann, Dusseldorf, Germany. Sand-blast machine for operating on wood	626,749	June 13	968	219	87	1820
Buzzard, Asenath L., Linton, Ind. Frame for dining-table covers	618,221	Jan. 24	2610	577	86	558
Byers, David I., Hartwell, Ohio. Trap for recovering gold-waste from jewelers' washings	628,922	July 18	1833	426	88	395
Byers, George R. (See McDonald, Hallock R., assignor.)						
Byers, Thomas, Essendon, Victoria. Caster	637,079	Nov. 14	1633	353	89	1275
Byham, Charles W., Kushequa, Pa. Saw-handle	624,292	May 2	637	139	87	820
Byington, John F., Battle Creek, Mich. Phorometer	637,955	Nov. 28	3663	{769 770}	89	1750
Byl, Camille. (See Wanderpepen, Van Berckelaer, and Byl.)						
Bylandt-Rheydt, Wilhelm, Weimar, Germany. Bicycle packing-case	633,070	Sept. 12	1599	372	88	2037
Byle, Robert E., H. A. Fillmore, and R. H. Nicholson, Wilkes-Barré, Pa. Piston	632,441	Sept. 5	422	94	88	1790
Byle, Robert E., H. A. Fillmore, and R. H. Nicholson, Wilkes-Barré, Pa. Rod-packing	632,442	Sept. 5	424	94	88	1790
Bymaster, David C., Hoople, N. D. Ice-cream freezer	618,811	Jan. 31	3690	827	86	782
Bynell, August, Grantsburg, Wis. Cattle-tie	634,129	Oct. 3	279	68	89	58
Byram, John C., Columbus Junction, Iowa. Heat radiator or drum	633,501	Sept. 19	2440	575	88	2212
Byrd, Atwell. (See Donlon. Thomas H., assignor.)						
Byrne, Edward J., Baltimore, Md. Submerged heater	638,195	Nov. 28	4137	874	89	1843
Byrne, John H., Union City, Ohio. Auxiliary seat for vehicles	619,666	Feb. 14	1582	361	86	1136
Byrns, Philander, Sparta, Wis. Clothes-pounder	626,455	June 6	443	104	87	1699
Byrns, Will E., assignor of one-half to J. F. Huckleberry, Adams, Ind. Telephone	617,314	Jan. 10	863	204	86	187
Byron, John M., Boston, Mass., assignor to Rogers Liquid Meter Company, Boston, Mass., and Portland, Me. Meter-registering device	633,567	Sept. 26	2582	605	88	2255
Byron, Thomas F., Des Moines, Iowa. Fruit-jar holder	619,275	Feb. 14	910	205	86	1006
Byxbe, John C., Pensacola, Fla. Shoulder-rest for buggies or carriages	633,305	Sept. 19	2079	487	88	2143
C. A. Edgarton Manufacturing Company. (See Edgarton, Charles F., assignor.)						
C. A. Edgarton Manufacturing Company. (See Johnson, William H., assignor.)						
C. B. Cottrell & Sons Company. (See Cottrell, Charles P., assignor.)						
C. B. Cottrell & Sons Company. (See Cottrell, Edgar H. and C. P., assignors.)						
C. B. Cottrell & Sons Company. (See Seymour, Ralph C., assignor.)						
C. C. Riotte Company. (See Riotte, Carl C., assignor.)						
C. H. Woodruff Company. (See Clark, Byron, assignor.)						
C. R. Remington & Son Company. (See Remington, Charles H., assignor.)						
C. T. Ham Manufacturing Company. (See Ham, Charles T., assignor.)						
C. W. Hunt Company. (See Hunt and King, assignors.)						
Cabena, William W. (See Barnes, George, assignor.)						
Cabena, William W. (See Scull, William R., assignor.)						
Cabezola, Eusebio F., Trenton, N. J. Thread-carrier for braiding-machines	623,514	Apr. 25	2425	557	87	524
Cabezola, Eusebio F., Trenton, N. J. Thread-carrier for braiding-machines	623,515	Apr. 25	2427	557	87	524
Cadden, Charles C. (See Yaxley and Cadden.)						
Cadman, Frank M., Soldier, Kans. Combined air-tight wood and coal stove	629,544	July 25	2969	692	88	634
Cadman, Frank M., and J. W. Johnson, Soldier, Kans. Lap-robe holder	633,681	Sept. 26	2803	652	88	2296
Cadmus, Oscar P., Newark, N. J. Street-sweeper	639,020	Dec. 12	1540	{353 354}	89	2186
Cadwell, Charles W., *et al.* (See Shaw, Henry W., assignor.)						
Cadwell, James, assignor of one-half to N. W. Hemminger, Wooddale, Pa. Air-brake hose-coupling	629,657	July 25	3165	738	88	671
Cadwell, Marvin S., Detroit, Mich. Box	620,538	Feb. 28	3159	723	86	1478
Cadwgan, Thomas C., assignor of one-half to O. S. Kelly Company, Springfield, Ohio. Machine for reducing paper-stock	620,884	Mar. 14	645	{141 142}	86	1641
Cady, Emma L., Syracuse, N. Y. Musical carriage	619,543	Feb. 14	1360	313	86	1095
Cady, Hutchins C., Columbus, Ohio. Car-fender	620,275	Feb. 28	2698	619	86	1390
Cady, Richard, Los Angeles, Cal. Railway-switch	632,673	Sept. 5	860	{200 201}	88	1879
Caffery, Edward C. (See Lombas, Joseph A., assignor.)						
Cahen, Albert, Paris, France. Bottle	621,444	Mar. 21	1670	370	86	1849
Cahill, John, Waverly, N. Y. Axle-box	635,954	Oct. 31	3713	858	89	791
Cahill, Mortimer, Chicago, Ill. Skirt-supporter	624,171	May 2	424	87	87	781
Cahill, William, San Francisco, Cal. Horseshoe	629,234	July 18	2380	552	88	499
Cahnbley, Ferdinand H. D., Altona, Germany. Social-game indicator	624,172	May 2	425	87	87	781
Cahoon, Clare, Grand Rapids, Mich. Vending-ticket	629,767	Aug. 1	13	4	88	724
Caille, August A., Detroit, Mich. Ring-case	633,714	Sept. 26	2864	665	88	2309
Cailleaud, Léon, Rochefort sur Mer, France. Grating for boats' bottoms	637,080	Nov. 14	1633	353	89	1275
Cain, Carl F., and H. Sangtinette, Brattleborough, Vt. Sewing-machine attachment	619,070	Feb. 7	516	108	86	911
Cain, Charles E., assignor of one-half to C. Churchill, Waupaca, Wis. Switch-stand	623,516	Apr. 25	2429	557	87	525
Cain, Ephraim D., Weatherby, Mo. Water-column	618,222	Jan. 24	2611	578	86	558
Cain, James S., A. Soderling, Bodie, and S. P. MacKnight, Bishop, Cal. Preliminary treatment of ores or tailings before cyaniding	636,114	Oct. 31	4056	928	89	859
Cain, John J., Bayonne, N. J. Gage-cock	639,707	Dec. 26	2811	649	89	2472
Calahan, John H., Philadelphia, Pa. Compression-cock	628,691	July 11	1423	331	88	296
Calantarients, Johannes A., Scarborough, England. Resilient tire for cycles	622,415	Apr. 4	386	89	87	72
Caldecott, William A., Johannesburg, South African Republic. Extracting gold from cyanid	620,100	Feb. 28	2389	------	86	1331
Caldwell, Alfred. (See Drew, George F., assignor.)						
Caldwell, Alfred, *et al.* (See Turck, Joseph A., assignor.)						
Caldwell, Charles, Anaconda, Colo. Device for operating mine-shaft doors	634,802	Oct. 10	1517	{356 357}	89	318
Caldwell, Charles P., Kansas City, Mo. Heat-regulating attachment for furnaces	632,803	Sept. 12	1135	262	88	1947
Caldwell, Edward F. (See Kern and Claflin, assignors.)						
Caldwell, Edward F. (See Wagner, Charles, assignor.)						
Caldwell, Frank G., Wheeling, W. Va. Sheet-metal hearth-fender	619,863	Feb. 21	1980	450	86	1240
Caldwell, Frank G., Wheeling, W. Va. Means for packing metallic roofing-sheets	625,730	May 23	3206	729	87	1385
Caldwell, Frank G., Wheeling, W. Va. Sheet-metal fender for hearths	627,388	June 20	2191	482	87	2080
Caldwell, Homer M., Worcester, Mass. Detachable chain	617,716	Jan. 17	1626	365	86	356
Caldwell, Jack, Kansas City, Mo. Cultivator	625,018	May 16	1946	437	87	1119
Caldwell, James, Clinton, Mass. Weaving double-faced fabrics	639,518	Dec. 19	2448	566	89	2382
Caldwell, John A., Vancouver, Canada. Bicycle-gearing	627,977	July 4	34	7	88	9
Caldwell, John W., Coolamon, New South Wales. Screw	635,297	Oct. 24	2438	568	89	531
Caldwell, Julia. (See Cary, Lewis C., assignor.)						
Caldwell, Lewis F., Philadelphia, Pa. Sash-fastener	621,600	Mar. 21	1957	438	86	1905
Caldwell Manufacturing Company. (See Rosentreter, Frank L., assignor.)						
Caldwell, William L., Novelty, Mo. Two-row cultivator	619,386	Feb. 14	1096	{247 248}	86	1044

Alphabetical list of patentees—Continued.

Name, residence, and invention.	No.	Date.	Monthly volume. Spec.	Monthly volume. Dr'g.	Official Gazette. Vol.	Official Gazette. Page.
Calef, Josiah B., assignor of one-fourth to H. D. Whyte, Chicago, Ill. Carriage-wrench	621,223	Mar. 14	1285	284	86	1764
Calhoun, Allan, Middlebury, Vt. Feed-box	635,125	Oct. 17	2131	499	89	456
Calhoun, James C., Sassafras, Md. Lantern-holder	636,424	Nov. 7	334	75	89	989
California Agitating and Leaching Machine Company. (See Somerville, Philip, assignor.)						
California Seeding Machine Company. (See McConnaughay, William M., assignor.)						
Calkins, Albert C., assignor to F. W. Braun, Los Angeles, Cal. Cupel-machine	637,081	Nov. 14	1634	353	89	1276
Call, Benjamin G., assignor of one-half to E. N. Richardson, San Francisco, Cal. Vessel cover and fastening for same	629,545	July 25	2969	693	88	634
Callahan, Andrew V., Chicago, Ill. Fire-escape	624,293	May 2	638	140	87	821
Callahan, Thomas J., Forest Depot, Va. Planter	630,030	Aug. 1	574	126	88	837
Callahan, William K. (See Callahan, De Armon, and Callahan.)						
Callahan, William P., T. De Armon, and W. K. Callahan, Dayton, Ohio. Oil-press	621,897	Mar. 28	2535	572	86	2033
Callaway, Edward H., New York, N. Y. Conduit for wires or cables	618,837	Feb. 7	33	7	86	810
Callaway, J. C., *et al.* (See Brandon, Callie C., assignor.)						
Callaway, William J., Gorin, Mo. Foundation-base for sills	621,027	Mar. 14	942	205	86	1696
Calleson, Amos, assignor of one-half to W. H. Hibbard, New York, N. Y. Machine for making wire rings and attaching clips thereto	619,937	Feb. 21	2097	476, 477	86	1261
Calliano, Carlo, Turin, Italy. Device for preventing seasickness	633,424	Sept. 19	2322	547	88	2190
Callihan, James J., New Orleans, La. Rotary engine	618,781	Jan. 31	3631	811	86	770
Callihan, James J., New Orleans, La. Rotary engine	632,549	Sept. 5	637	148, 149	88	1832
Callison, Robert M., *et al.* (See Fisher, James W., assignor.)						
Callmann, William C., *et al.* (See Baines, Edward, assignor.)						
Callum, Robert G., Washington, D. C. Fire-alarm instrument	626,318	June 6	186	45	87	1648
Callum, Robert G., and J. W. Fritch, Washington, D. C.; said Fritch assignor to said Callum. Automatic fire-alarm system	626,364	June 6	289	66	87	1670
Calumet Rubber Tire Company. (See Kinney, Frank W., assignor.)						
Calumet Tire Rubber Company. (See Kinney, Frank W., assignor.)						
Calvert, John, Dayton, Ohio. Luggage-carrier for pack-animals	618,329	Jan. 24	2802	621	86	595
Calvert, Louis L. (See O'Meara and Calvert.)						
Calvert, Louis L., Philadelphia, Pa. Box column	626,365	June 6	295	67	87	1671
Calvert, Todd, Tampa, Kans. Calcining-furnace	622,327	Apr. 4	229	51	87	44
Camehl, George C., New Orleans, La., and J. H. Foggitt, St. Louis, Mo. Grain-door for cars	629,422	July 25	2734	636	88	589
Camelinat, Eugene G., Handsworth, and P. Taillandier, Birmingham, England. Chain	628,754	July 11	1525	353	88	318
Cameron, Addison B., Cameron, Mont. Umbrella	638,700	Dec. 12	984	219	89	2078
Cameron, Alexander, Jr., Richmond, Va. Box or can	618,782	Jan. 31	3632	811	86	770
Cameron, Alexander, Jr., Richmond, Va. Box or can	618,783	Jan. 31	3633	812	86	770
Cameron, Alexander, Jr., Richmond, Va. Box or can provided with means for opening same	633,986	Oct. 3	9	3	89	5
Cameron, Charles H., Chicago, Ill. Cushioned car-wheel	623,883	Apr. 25	3114	717	87	654
Cameron, Daniel, *et al.* (See Englen, Frederick J., assignor.)						
Cameron, Donald, and F. J. Commin, Exeter, England. Apparatus for automatically delivering liquids to receptacles	634,424	Oct. 3	854	206, 207, 208	89	171
Cameron, Donald, F. J. Commin, and A. J. Martin, Exeter, England. Process of and apparatus for treating sewage	634,423	Oct. 3	849	205, 206	89	170
Cameron, Donald, F. J. Commin, and A. J. Martin, Exeter, England. Apparatus for treating sewage	634,425	Oct. 3	861	208, 209	89	173
Cameron, Donald, F. J. Commin, and A. J. Martin, Exeter, England. Apparatus for treating sewage	634,426	Oct. 3	864	209	89	173
Cameron, Donald, F. J. Commin, and A. J. Martin, Exeter, England. Apparatus for treating sewage	634,427	Oct. 3	866	209	89	174
Cameron, Donald, F. J. Commin, and A. J. Martin, Exeter, England. Apparatus for treating sewage	634,428	Oct. 3	867	210	89	174
Cameron, Ephraim G., Corvallis, Oreg. Gate	626,269	June 6	84	21	87	1631
Cameron, Frank W., Departure Bay, Canada, assignor of one-half to P. M. Campbell, San Francisco, Cal. Attachment for pens	638,556	Dec. 5	694	147	89	1998
Cameron, Franklin A. (See Scott and Cameron.)						
Cameron, Henry D., Burlington, Iowa. Grave-cover	616,894	Jan. 3	55	11	86	13
Cameron, Henry D., Burlington, Iowa. Receptacle used in constructing graves	639,210	Dec. 19	1880	433, 434	89	2265
Cameron, James, and W. E. Link, San Francisco, Cal. Trunk-lashing	618,598	Jan. 31	3314	737	86	707
Cameron, James A. (See Cameron, John F. and J. A.)						
Cameron, James C. (See Eaton, Matthias B., assignor.)						
Cameron, James W., New York, N. Y., assignor to Fruit, Flowers and Vegetable Evaporating Company, of New Jersey. Revolving fruit-evaporator	633,335	Sept. 19	2159	505, 506	88	2159
Cameron, John F. and J. A., New York, N. Y. Folding and creasing machine	623,882	Apr. 25	3112	717	87	654
Cameron, Julia E. (See Coryell, Edwin M., assignor.)						
Cameron, Mitchell J., Auburn, N. Y. Burial-casket-lowering device	634,876	Oct. 17	1664	392	89	363
Cameron, Robert, Vancouver, Canada, assignor of one-half to G. H. St. Denis, Medford, Mass. Lawn-mower	632,173	Aug. 29	4528	1020	88	1675
Cameron, Walter A., Stacey, Mont. Branding device	636,115	Oct. 31	4058	928	89	860
Camiz, Vito, and A. Bettoni, Venice, assignors to said Camiz and A. Gobba, Castelnuovo Scrivia, Italy. Apparatus for separating oil from water	639,519	Dec. 19	2451	566	89	2382
Cammett, Ira A., and F. E. Shepard, Denver, Colo. Ore-concentrator	632,892	Sept. 12	1313	301	88	1980
Camnitzer, Arthur, New York, N. Y. Making caustic collodion	627,296	June 20	1988	------	87	2040
Camp, A. J., *et al.* (See Babb, Christopher C., assignor.)						
Camp, Charles M., Navasota, Tex. Acetylene-gas generator	625,827	May 30	3412	775	87	1443
Camp, Daniel B., Montclair, N. J. Valve for bicycle-tires	635,915	Oct. 31	3648	841	89	779
Camp, Horace B., Akron, Ohio. Clay-cutting machine	626,887	June 13	1278	279, 280	87	1879
Camp, Horace B., Akron, Ohio. Tank	637,500	Nov. 21	2453	533	89	1450
Camp, Key D., assignor of two-thirds to R. A. Craig, Mukwanago, and G. H. Wilbur, Waukesha, Wis. Automatic register	622,756	Apr. 11	1030	240	87	215
Camp, Paul R., Marietta, Ga. Transparent picture	636,319	Nov. 7	155	34	89	952
Camp, Theodore L., assignor to American Electric Vehicle Company, Chicago, Ill. Fifth-wheel for electrical vehicles	623,651	Apr. 25	2674	614	87	569
Campbell, Albert, Chicago, Ill. Fuel	624,173	May 2	426	------	87	781
Campbell, Albert, Stamford, Conn. Flexible joint	628,692	July 11	1425	331	88	296
Campbell, Albert M., Harrison, Ohio. Corn-drill hopper	331,358	Aug. 22	3024	685	88	1370
Campbell, Allan, assignor of one-half to J. M. Westerlin, Chicago, Ill. Condensing-coil for refrigerating-machines	635,955	Oct. 31	3714	858, 859	89	791
Campbell & Clute. (See Campbell, Francis, assignor.)						
Campbell, Cydnor B., Glouster, assignor of one-half to I. E. Chappelear, Trimble, Ohio. Quick-action vise	631,151	Aug. 15	2652	600	88	1277

Alphabetical list of patentees—Continued.

Name, residence, and invention.	No.	Date.	Monthly volume. Spec.	Monthly volume. Dr'g.	Official Gazette. Vol.	Official Gazette. Page.
Campbell, Daniel. (See Evans, John, assignor.)						
Campbell, Daniel J., New York, N. Y., assignor to American Tobacco Company, Newark, N. J. Cigarette-box	621,792	Mar. 28	2327	523	86	1993
Campbell, Douglas M., assignor of one-fourth to S. Taliaferro, Houston, Tex. Winding-tool for bale-fastenings	630,825	Aug. 8	2056	464	88	1138
Campbell, Douglas M., assignor of one-half to S. Taliaferro, Houston, Tex. Bale-band fastener	639,695	Dec. 19	2788	643	89	2450
Campbell, Eva K. (See Campbell, Windsor O. and E. K.)						
Campbell, Ezra, Dayton, Wash. Threshing-machine	636,754	Nov. 14	1007	215	89	1152
Campbell, Ezra, and C. B. Woodworth, Dayton, Wash. Grass-catcher for lawn-mowers	621,445	Mar. 21	1671	370	86	1850
Campbell, Francis, assignor of one-half to Campbell & Clute, Cohoes, N. Y. Machine for sewing looped fabrics	632,042	Aug. 29	4284	962, 963	88	1626
Campbell, Frederick A. (See Aumont, Alfred, assignor.)						
Campbell, George L., Dushore, Pa. Electric-railway system	621,321	Mar. 21	1468	325	86	1811
Campbell, George L., assignor to himself, C., W., and H. Kraus, G. E. Donahoe, H. N. Osler, E. S. Garey, A. Walsh, H. G. May, B. H. Welch, C. W. Woddrop, T. A. Boak, J. D. Reeser, M. E. Hermann, and J. L. Christian, Dushore, Pa. Electric printing-machine	619,667	Feb. 14	1583	361, 362	86	1136
Campbell, Henry B., Scranton, Pa. Inkstand	633,562	Sept. 19	2442	575	88	2212
Campbell, Herbert W., Clinton, Iowa. Machine for reshaping crown-corks	617,277	Jan. 3	793	185	86	156
Campbell, Hugh. (See Crepeau, Henry T., assignor.)						
Campbell, Hugh, assignor of one-half to W. Thompson, Manchester, N. H. Construction of monuments	623,943	Apr. 25	3225	743	87	675
Campbell, J. Vernon. (See Mitchell, Timothy B. L., assignor.)						
Campbell, James S. (See Smith, Benjamin F., assignor.)						
Campbell, James W., Mangum, Okla. Ter. Flue or chimney	638,953	Dec. 12	1415	323	89	2163
Campbell, Jeremiah, Chelsea, Mass. Recording-scale	627,978	July 4	35	7, 8	88	9
Campbell, Jeremiah, Chelsea, Mass. Starting or stopping mechanism	630,031	Aug. 1	579	126, 127	88	837
Campbell, John S., Paris, France, assignor to Dentenax (Holdfast-Tooth) Company, Limited, London, England. Artificial tooth	633,071	Sept. 12	1600	372	88	2038
Campbell, John W., New York, N. Y. Cylindrical neostyle	637,764	Nov. 28	3308	691, 692	89	1677
Campbell, Leon W., Woonsocket, R. I., assignor of one-half to M. Campbell, Boston, Mass. Top roll	628,521	July 11	1080	252	88	228
Campbell, Leon W., Woonsocket, R. I., assignor of one-half to M. Campbell, Boston, Mass. Top roll	628,522	July 11	1081	252	88	228
Campbell, Leon W., Woonsocket, R. I., assignor of one-half to M. Campbell, Boston, Mass. Top roll	639,211	Dec. 19	1882	434	89	2266
Campbell, Malcolm. (See Campbell, Leon W., assignor.)						
Campbell, Malcolm, Boston, Mass. Rotary steam cloth-finishing press	621,028	Mar. 14	943	205, 206	86	1696
Campbell, Malcolm, Boston, Mass. Spindle	628,523	July 11	1082	252	88	228
Campbell, Margurrite E., Baltimore, Md. Toy house	635,994	Oct. 31	3805	876	89	811
Campbell, Marvin, South Bend, Ind. Currycomb	629,768	Aug. 1	14	4	88	724
Campbell, Matthew C., Philadelphia, Pa. Pleasure-car for gravity-railways, &c	620,415	Feb. 28	2934	673	86	1434
Campbell, Neil, Jersey City, N. J. Rotary brush	619,134	Feb. 7	646	139	86	938
Campbell, Neil J., Albany, N. Y. Saw-set	629,151	July 18	2250	521	88	475
Campbell, Oliver C., Coldwater, Mich. Potato-digging attachment for plows	627,389	June 20	2193	482	87	2080
Campbell, Palmer, *et al.*, trustees. (See Mallory, George B., assignor.)						
Campbell, Peter M. (See Cameron, Frank W., assignor.)						
Campbell Printing Press and Manufacturing Company. (See Pattberg, Charles E., assignor.)						
Campbell Printing Press and Manufacturing Company. (See Southgate, Louis W., assignor.)						
Campbell Printing Press and Manufacturing Company. (See Wood, Henry A. W., assignor.)						
Campbell, Robert, assignor of one-half to O. R. Goldman, Gadsden, Ala. Nut-lock	633,093	Sept. 12	1674	394	88	2052
Campbell, Robert J., *et al.* (See Freeman, Warren P., assignor.)						
Campbell, Solon O., East Peru, Iowa. Gate-latch	619,668	Feb. 14	1588	362	86	1137
Campbell, T. H. (See Haines, Samuel A., assignor.)						
Campbell, Thomas W., assignor of two-thirds to Q. J. Hoke and W. M. Bigger, Energy, S. C. Subsoil-plow	639,356	Dec. 19	2160	496	89	2325
Campbell, Victor E., assignor of one-fourth to L. A. Buckner, Winnemucca, Nev. Automatic gas cut-off	627,097	June 20	1637	358, 359	87	1969
Campbell, Walter T., St. Louis, Mo. Filing-rack	622,911	Apr. 11	1312	302	87	268
Campbell, William, Sandyville, W. Va. Wire-stretcher	636,631	Nov. 7	724	158	89	1067
Campbell, William O., and W. H. Mickey, Peebles, Ohio. Harness-saddle	633,503	Sept. 19	2443	576	88	2213
Campbell, Windsor O., Sulphur Springs, Ark. Bicycle	618,330	Jan. 24	2803	622	86	595
Campbell, Windsor O. and E. K., Sulphur Springs, Ark. Chair	626,139	May 30	4073	929	87	1565
Campfield, Alfred L., Chicago, Ill. Printing-type	635,651	Oct. 24	3130	720	89	665
Campkin, Harry, Nottingham, England. Wheel for vehicles	628,755	July 11	1527	353	88	318
Campsall, James. (See Johnson, Marquis H., assignor.)						
Canada, Lucius T. M., Memphis, Tenn. Non-refillable bottle	639,662	Dec. 19	2719	625	89	2436
Canada, William C. (See York, Andrew J., assignor.)						
Canaday, Joel H., Elsmore, Kans. Gravity door-lock	621,898	Mar. 28	2536	573	86	2033
Canady, Lorin W., Toyah, Tex. Ventilator for cars	619,718	Feb. 21	1701	389	86	1185
Canady, Lorin W., El Paso, Tex. Throttle-lever	624,294	May 2	640	140	87	821
Canal, Louis. (See Desmarais and Canal.)						
Canale, James L., Memphis, Tenn. Jug-packing box	629,235	July 18	2381	553	88	499
Canavan, James V. (See Van Ryzin, Martin P., assignor.)						
Canavan, John H., Kirkland, Ariz. Ter. Smelting-furnace	635,652	Oct. 24	3131	721	89	665
Canda Brothers. (See Canda, Ferdinand E., assignor.)						
Canda, Ferdinand E. (See Smyser, Louis B., assignor.)						
Canda, Ferdinand E., New York, N. Y. Electric igniter for explosive-engines	617,806	Jan. 17	1814	406	86	392
Canda, Ferdinand E., New York, N. Y. Floor-frame	621,520	Mar. 21	1820	405	86	1878
Canda, Ferdinand E., New York, N. Y. Car-frame	628,575	July 11	1182	276, 277	88	248
Canda, Ferdinand E., New York, N. Y. Car-truck	628,576	July 11	1184	277	88	248
Canda, Ferdinand E., New York, N. Y. Car-truck	628,577	July 11	1185	277	88	248
Canda, Ferdinand E., New York, N. Y. Car-wheel	628,693	July 11	1426	331	88	296
Canda, Ferdinand E., New York, N. Y. Car-wheel	628,694	July 11	1427	331	88	297
Canda, Ferdinand E., New York, N. Y. Carbureter	635,298	Oct. 24	2441	568	89	531
Canda, Ferdinand E., assignor to Canda Brothers, New York, N. Y. Car-frame	635,653	Oct. 24	3133	721	89	666
Canda, Ferdinand E., assignor to Canda Brothers, New York, N. Y. Car-frame	639,192	Dec. 12	1846	425	89	2245
Canda, Ferdinand M., New York, N. Y. Locking device for securing cams, pulleys, &c., to shafts	621,039	Mar. 14	946	206	86	1697

Alphabetical list of patentees—Continued.

Name, residence, and invention.	No.	Date.	Monthly volume.		Official Gazette.	
			Spec.	Dr'g.	Vol.	Page.
Candee, Willard L., New York, N. Y., and R. Varley, Englewood, N. J., assignors to said Candee, trustee. Signal-recording apparatus	619,276	Feb. 14	911	205 206	86	1006
Canedy, Ernest E., North Adams, Mass. Garbage-box	629,710	July 25	3261	760	88	689
Canedy, Ernest E., North Adams, Mass. Shoe-rack	638,443	Dec. 5	490	99	89	1960
Canedy Otto Manufacturing Company. (See Canedy, William E., assignor.)						
Canedy, William E., assignor to Canedy Otto Manufacturing Company, Chicago Heights, Ill. Attachment for metal-drilling machines	634,324	Oct. 3	676	163	89	136
Canellopoulos, Jean, Courbevoic, France. Steering apparatus for motor-vehicles	635,654	Oct. 24	3134	721 722	89	666
Canfield, Felix P., assignor to Magee Furnace Company, Boston, Mass. Means for automatically opening or closing furnace or stove dampers	625,640	May 23	3052	694 695	87	1356
Canfield, Frank, assignor of one-half to T. V. Wilson and T. J. Thompson, Boulder, Colo. Wire fence	629,322	July 18	2545	592	88	530
Canfield, Henry O., Bridgeport, Conn. Hoof-pad	631,279	Aug. 22	2888	653	88	1342
Canfield, James H., *et al.* (See Harvey, William L., assignor.)						
Canfield, John. (See Thomson, Judson L., assignor.)						
Canham, James L., Orange, N. J. Hat-sizing machine	617,519	Jan. 10	1247	284	86	262
Canning, Alexander H. (See Clark, Charles, assignor.)						
Canning, Alexander H., Toronto, Canada. Tea-mixer	621,521	Mar. 21	1822	405	86	1878
Cannon, Clinton D., Battle Creek, Mich. Vehicle-wheel	626,591	June 6	667	154	87	1744
Cannon, Warren B., assignor to Williams Manufacturing Company, Kalamazoo, Mich. Silo	624,751	May 9	1460	330	87	1007
Canon, Lydia, Belmond, Iowa. Yeast-powder box	638,319	Dec. 5	249	52	89	1914
Cauode, Frederick B., assignor to A. B. Dick Company, Chicago, Ill. Ink	617,315	Jan. 10	864	------	86	188
Canton Foundry and Machine Company. (See Pfouts, Leroy S., assignor.)						
Cantrell, Robert B., New York, N. Y. Artificial bait	633,797	Sept. 26	2993	696	88	2335
Cantwell, Edward J., New Boston, Mo. Hay or straw stacker	631,199	Aug. 15	2728	618	88	1294
Canziani, Enrico, Milan, Italy. Apparatus for treating coffee-beans	631,616	Aug. 22	3508	790	88	1466
Capell, George M., Passenham, England. Centrifugal fan and pump	617,520	Jan. 10	1248	285	86	263
Capen, James S., and H. W. Cheney, Detroit, Mich.; said Cheney assignor to said Capen. Lock for bicycle-stands	634,441	Oct. 10	892	215	89	196
Capen, Thomas W. (See Hanna and Capen.)						
Capen, Thomas W., Chicago, Ill., assignor to Gates Iron Works, of Illinois. Journal-box for stamp-mills	628,447	July 11	934	217	88	199
Capewell, George J., Jr., Hartford, Conn. Stick-pin retainer	630,972	Aug. 15	2331	531	88	1215
Capewell, George J., assignor, by mesne assignments, to American Specialty Manufacturing Company, Hartford, Conn. Button	619,277	Feb. 14	913	206	86	1006
Capillary Chalice Company. (See Rosell, Claude A. O., assignor.)						
Capital Cash Register Company. (See Sharpe, John, assignor.)						
Capitol Electric Engineering Company. (See Theadore, Paul, assignor.)						
Caple, Vinson L. (See Reisinger and Caple.)						
Capon, Philip, London, England. Draft-excluder	629,711	July 25	3262	761	88	690
Capouch, Edward. (See Breves and Capouch.)						
Capper, Charles, Wilkinsburg, assignor of one-half to W. D. Corcoran, Pittsburg, Pa. Apparatus for casting crucible-steel	630,285	Aug. 1	1018	224	88	923
Capps, Edwin M., San Diego, Cal. Machine-gun	632,098	Aug. 29	4384	984 985	88	1645
Capron, Marshall F. (See Long and Capron.)						
Caps, William H., Kansas City, Mo. Stereotype-plate	629,423	July 25	2735	636	88	589
Carassale, Victor, Paris, France. Box-filling machine	625,288	May 16	2430	550 551 552 553 554	87	1208
Carbone, Tito L., Montevideo, Uruguay. Apparatus for making sheet-metal boxes	625,872	May 30	3502	793 794 795	87	1460
Carbone, Tito L., Montevideo, Uruguay. Apparatus for shaping lids of sheet-metal boxes	629,546	July 25	2971	693 694	88	635
Cardell, Charles O. L., Pearl River, N. Y. Spirit-level	625,019	May 16	1951	437	87	1120
Carden, Helen J., Bakersfield, assignor of one-third to A. E. Hughes, Fresno, Cal. Self-draining culinary vessel	629,742	July 25	3321	775	88	701
Carder, William W., Oldtown, Md. Garment-supporter	632,641	Sept. 5	778	179	88	1861
Carey, Douglas M., Enid, Okla. Ter. Tram for roller grinding-mills	635,528	Oct. 24	2907	664	89	623
Carey, John N., Williamstown, Victoria. Variable driving-gear for cycles	617,637	Jan. 10	1475	336	86	306
Carey, Michael J., assignor of one-half to C. C. Shinn, Grand Rapids, Mich. Emergency-screen for paying-tellers	620,276	Feb. 28	2699	619	86	1390
Cargill, Benjamin F., Carnegie, Pa. Invalid-cot	629,658	July 25	3167	738 739	88	672
Carle, Alonzo E., *et al.* (See Hartwell, Jacob E., assignor.)						
Carle, David E., and R. W. Blaze, Jeannette, assignors to McKee & Brothers, Pittsburg, Pa. Apparatus for finishing glassware	620,693	Mar. 7	287	57	86	1557
Carleton, Edwin G. (See Koltonsky, Stanislaus A., assignor.)						
Carleton, John W., assignor to Union Manufacturing Company, New Britain, Conn. Drill-chuck	627,480	June 27	2364	521	87	2130
Carley, Alexander L., Syracuse, N. Y. Ball-bearing for vehicles	633,798	Sept. 26	2994	696	88	2336
Carley, Horace S., Boston, Mass. Life-boat	627,979	July 4	37	8	88	10
Carley, Oliver F., *et al.* (See Thurber, Charles F., assignor.)						
Carlin, James J. (See Eastman, Neil P., assignor.)						
Carlisle, Ezra L. (See Knight, Lucien B., assignor.)						
Carlisle, Samuel M., assignor to N. N. Pryor, Louisville, Ky. Automatic cylinder-cock	619,391	Feb. 14	1103	249	86	1045
Carlisle, Thomas F., assignor to Nelson Improved Seamless Filled Wire Company, Providence, R. I. Manufacture of seamless compound wire	618,165	Jan. 24	2524	560	86	543
Carliss, Thomas E., Detroit, Mich. Brake-beam	636,755	Nov. 14	1009	215	89	1152
Carloni, Carlo, Milan, Italy. Steering mechanism	632,099	Aug. 29	4388	986	88	1646
Carlson, Aron M., Pierre, S. D. Windmill	622,115	Mar. 28	2929	664 665	86	2110
Carlson, Charles F., Kilauea, Hawaii. Shaft for two-wheeled vehicles	623,462	Apr. 18	2326	533	87	486
Carlson, Charles O., assignor to Maxwell Wyeth & Company, New York, N. Y. Igniter for gas-engines	628,448	July 11	935	217 218	88	199
Carlson, Edward, *et al.* (See Hockerson, Nels, Jr., assignor.)						
Carlson, Frank A., Attica, Ind. End-gate fastener	629,492	July 25	2871	667	88	614
Carlson, Frans O., Chicago, Ill. Extension-ladder	637,082	Nov. 14	1636	354	89	1276
Carlson, John, Mandan, N. D. Acetylene-gas generator	623,132	Apr. 18	1731	400	87	365
Carlson, Oscar, Mount Vernon, N. Y. Safety hunting-skirt	631,949	Aug. 29	4101	920	88	1590

Alphabetical list of patentees—Continued.

Name, residence, and invention.	No.	Date.	Monthly volume.		Official Gazette.	
			Spec.	Dr'g.	Vol.	Page.
Carlson, Otto. (See Stäckig and Carlson.)						
Carlson, William O. (See Robinson, Emerson, and Carlson.)						
Carlsson, Johan M., and E. A. O. Göthe, Stockholm, Sweden. Bicycle driving mechanism	622,668	Apr. 11	889	204, 205	87	188
Carlstrom, Allgott, Chicago, Ill. Liquid-fuel burner	636,756	Nov. 14	1010	216	89	1153
Carlton, Frank L., and D. H. Conners, assignors of one-third to W. O. Emery, Sullivan, Me. Mail-bag fastener	633,546	Sept. 19	2522	592, 593	88	2227
Carlton, George H., Orange, Mass. Flower-stand	636,632	Nov. 7	726	159	89	1068
Carlton, Harvey B., Rochester, N. Y. Photographic camera	628,302	July 4	664	156	88	128
Carlton, Harvey B., and E. F. Hathaway, assignors to Rochester Camera and Supply Company, Rochester, N. Y. Photographic shutter	636,224	Oct. 31	4254	978	89	899
Carlton, Henry E., assignor of one-half to W. R. Bilyer, Sorento, Ill. Alarm-lock	621,793	Mar. 28	2328	523	86	1993
Carlton, James, Nocatee, Fla. Fruit-conveyer	638,832	Dec. 12	1206	271	89	2121
Carlton, S. M., *et al.* (See Mason, William R., assignor.)						
Carlton, William F. (See Hales, Henry W., assignor.)						
Carlton, William F. (See Locke, Harvey W., assignor.)						
Carman, Charles L., assignor to Gates Iron Works, Chicago, Ill. Vanner	617,953	Jan. 17	2090	469	86	448
Carmel, Adjutor. (See Lavoie and Chazotte, assignors.)						
Carmichael, Henry, Malden, assignor to S. D. Warren & Co., Boston, Mass. Liquid-feed device for electrolytic or kindred apparatus	637,851	Nov. 28	3467	724	89	1710
Carmichael, John P., Milwaukee, Wis., assignor to S. S. White Dental Manufacturing Company, Philadelphia, Pa. Rubber-dam holder	628,923	July 18	1835	427	88	395
Carmona, Manuel S., Mexico, Mexico. Type-writing machine	638,091	Nov. 28	3913	824, 825, 826	89	1799
Carmona, Manuel S., Mexico, Mexico. Type-writing machine	638,092	Nov. 28	3929	826, 827, 828	89	1801
Carmont, William E., Kingston-upon-Thames, England. Resilient hub for vehicle-wheels	635,231	Oct. 17	2315	540	89	490
Carnac-Marquis, Ferdinand P. (See Halvorson, Erick O., assignor.)						
Carnahan, Charles M., Newport, Ky., assignor to Globe Company, Cincinnati, Ohio. Box and fastening therefor	633,356	Sept. 19	2198	516	88	2166
Carnahan, Sarah S. (See Shaffer, Philip K., assignor.)						
Carnegie Steel Company. (See Lanz, John, assignor.)						
Carnegie Steel Company. (See Unger, John S., assignor.)						
Carnes, Rufus F., Eldridge, assignor of one-half to J. H. Bankhead, Jr., Jasper, Ala. Self-closing railway-switch	619,135	Feb. 7	647	139	86	938
Carney, James L., New York, N. Y. Penholder	628,261	July 4	579	138	88	113
Carney, John. (See Cunningham, John, assignor.)						
Carns, Edwin T., Portland, Oreg. Magazine-camera	625,379	May 23	2601	592	87	1267
Caro, Heinrich, Mannheim, assignor to Badische Anilin and Soda Fabrik, Ludwigshafen, Germany. Rhodamin dye and making same	625,641	May 23	3053	------	87	1356
Caro, Nikodem. (See Frank and Caro.)						
Caron, Louis A., assignor of one-half to U. Garand, Montreal, Canada. Nut-lock	627,323	June 20	2048	451	87	2053
Carpenter, Benjamin F., Roselle, N. J. Constructing tunnels	620,101	Feb. 28	2390	541, 542	86	1331
Carpenter, Benjamin F., Roselle, N. J. Tunneling device	620,102	Feb. 28	2400	542	86	1333
Carpenter, Benjamin F., Roselle, assignor of one-half to C. N. Fowler, Elizabeth, N. J. Appliance for automatically operating pneumatic or electric cars	623,944	Apr. 25	3225	744, 745	87	675
Carpenter, Charles E., Cincinnati, Ohio. Ironing-machine	625,966	May 30	3670	833	87	1492
Carpenter, Charles W., *et al.* (See Crowell, Luther C., assignor.)						
Carpenter, Charles W., *et al.* (See Crowell and North, assignors.)						
Carpenter, Charles W., *et al.* (See Houghtlin, Alfred, assignor.)						
Carpenter, Charles W., *et al.* (See Jackson, Benjamin F., assignor.)						
Carpenter, Charles W., *et al.* (See North, Thomas M., assignor.)						
Carpenter, Charles W., *et al.* (See Read, George F., assignor.)						
Carpenter, Charles W., *et al.* (See Rice, John M., assignor.)						
Carpenter, Charles W., *et al.* (See Roesen, Oscar, assignor.)						
Carpenter, Charles W., *et al.* (See Sheldon, Edward P., assignor.)						
Carpenter, Charles W., *et al.* (See Spalckhaver, William, assignor.)						
Carpenter, Daniel, Goshen, N. Y. Bicycle	624,295	May 2	641	141	87	821
Carpenter, Edwin J., *et al.* (See Wescott, Pulaski D., assignor.)						
Carpenter, George A., assignor of one-half to E. S. Osler, Fort Morgan, Colo. Fly-exterminator	632,674	Sept. 5	863	201	88	1880
Carpenter, George W., Toledo, Ohio. Shaft-support for vehicles	630,654	Aug. 8	1772	399	88	1081
Carpenter, Harvy E. (See Davis, Albon C., assignor.)						
Carpenter, Henry S. (See Deckard, Stephen J., assignor.)						
Carpenter, J. Ross, Little York, Ill. Wheelbarrow	617,278	Jan. 3	795	185	86	156
Carpenter, Jacob, Enterprise, Ohio. Combined harrow, pulverizer, and crusher	629,313	July 18	2527	588	88	526
Carpenter, James, Portsmouth, England. Apparatus for holding cables, wire ropes, &c.	639,520	Dec. 19	2454	566, 567	89	2383
Carpenter, James C., Polkton, N. C. Adjustable bracket	623,517	Apr. 25	2432	557	87	525
Carpenter, Jerome B., Livonia Station, N. Y. Machine for attaching pickets to fence-wires	639,521	Dec. 19	2455	567	89	2383
Carpenter, John A., Oxville, and C. F. Tonn, Bluffs, Ill. Insulator	626,592	June 6	669	155	87	1744
Carpenter, John D. (See Baulieu, William J., assignor.)						
Carpenter, Rolla C., Ithaca, N. Y. Alloy	632,443	Sept. 5	425	------	88	1790
Carpenter, Rolla C., Ithaca, assignor to Schaffer & Budenberg, New York, N. Y. Steam-separator	622,757	Apr. 11	1032	240	87	216
Carpenter, Sylvester S., Boston, Mass. Galvanic truss-pad	639,147	Dec. 12	1746	403	89	2227
Carpenter, Thomas E., Providence, R. I. Cigar-machine	639,663	Dec. 19	2720	625	89	2437
Carpentier, Georges J. N., Newport News, Va. Automatic valve-closer for ships' ventilators	617,077	Jan. 3	417	102	86	81
Carper, Albert A., Baltimore, Md., assignor to Aluminum Stopper Company of Baltimore City, of Maryland. Machine for sealing bottles	623,274	Apr. 18	1999	459	87	419
Carr-Boyd, William J. H. (See Schroeder and Carr-Boyd.)						
Carr, Charles, Boston, Mass. Machine for making and boxing matches	639,357	Dec. 19	2163	496, 497, 498, 499, 500, 501	89	2326
Carr, Charles, Boston, Mass. Machine for sharpening gangs of saws	639,358	Dec. 19	2173	502	89	2327
Carr, Charles, Boston, Mass. Machine for making and boxing matches	639,359	Dec. 19	2175	502, 503, 504	89	2328
Carr, Clarence R. (See Taylor, David L., assignor.)						
Carr, Delbert C., Rochester, N. Y. Hose-stripping apparatus	640,091	Dec. 26	3507	804	89	2613

Alphabetical list of patentees—Continued.

Name, residence, and invention.	No.	Date.	Monthly volume.		Official Gazette.	
			Spec.	Dr'g.	Vol.	Page.
Carr, Emory M., New Castle, Ind. Windlass	619,864	Feb. 21	1981	450	86	1240
Carr, George H., Rockport, assignor of part to I. N. Fitzpatrick and R. W. Kelsey, San Antonio, Tex. Rotary engine	618,393	Jan. 31	2947	653	86	638
Carr, George J. (See Wheeler, Holman K., assignor.)						
Carr, Henry H., Chicago, Ill. Portable elevator	638,954	Dec. 12	1417	324	89	2163
Carr, James, Bradford, England. Letter-box	624,623	May 9	1243	278	87	964
Carr, James, assignor to Hoggson & Pettis Manufacturing Company, New Haven, Conn. Tool-holder for metal-working machines	629,236	July 18	2382	553	88	499
Carr, James A., Fall River, Mass. Weaver's pick-out and scratch-up comb	636,395	Nov. 7	284	63	89	978
Carr, Lewis G., Philadelphia, Pa. Dampener for collars and cuffs	618,641	Jan. 31	3387	754	86	721
Carr-Lowrey Glass Company. (See Garwood, Charles B., assignor.)						
Carr, Walter, London, England. Pneumatic propulsion of vessels	626,140	May 30	4074	929 930	87	1565
Carr, William H., and J. G. Wolf, New York, N. Y. Placket-protector and skirt-supporter	620,885	Mar. 14	648	142	86	1642
Carr, William T., Carlisle, England. Manufacturing biscuits	628,449	July 11	937	218	88	260
Carragan, Henry K., *et al.* (See Wheelock, Joseph H., assignor.)						
Carraher, Thomas R. (See Bishop, Augustus B., assignor.)						
Carraway, Esther P. H., assignor of two-thirds to F. N. Bilisoly, Portsmouth, Va., and A. S. Hudson, Chapel Hill, Tex. Combined trunk and dressing-case	630,587	Aug. 8	1650	369	88	1058
Carraway, Esther P. H., assignor of one-half to F. N. Bilisoly, Portsmouth, Va., and A. S. Hudson, Chapel Hill, Tex. Ball-caster	636,757	Nov. 14	1011	216	89	1153
Carrel, Moses G., Cleveland, Ohio. Ticket	633,504	Sept. 19	2444	576	88	2213
Carrer, Leo, Dusseldorf, Germany. Feed-water heater	639,522	Dec. 19	2457	567	89	2383
Carriage Machine Company. (See Marston, Dudley J., assignor.)						
Carrick, Thomas. (See Sheedy and Carrick.)						
Carrier, Lyman, and E. Z. Clow, Joliet, Ill. Railway-gate	625,740	May 30	3234	734	87	1409
Carrier, Lyman, and E. Z. Clow, Joliet, Ill. Detector-bar for railway-switches	625,741	May 30	3234	735	87	1409
Carrigan, George S., Mack, assignor of two-thirds to A. and S. Bertig, Paragould, Ark. Plow	635,916	Oct. 31	3650	842	89	779
Carroll, Charles, assignor to Sterling Company, Limited, New Orleans, La. Breathing-tube	635,232	Oct. 17	2316	541	89	491
Carroll, Daniel, Columbus, Ohio. Device for imparting uniform dimensions to chain-links	620,886	Mar. 14	649	142	86	1642
Carroll, Francis C., Peoria, Ill. Barbed wire	638,320	Dec. 5	250	52	89	1914
Carroll, James T. (See Carroll, John L. and J. T.)						
Carroll, John. (See Powers, Charles, assignor.)						
Carroll, John, Canisteo, N. Y. Washboard	634,877	Oct. 17	1666	392	89	364
Carroll, John F., Worcester, Mass. Hoeing-machine	623,766	Apr. 25	2861	655	87	606
Carroll, John F., Worcester, Mass. Vegetable-digging machine	623,767	Apr. 25	2863	655	87	606
Carroll, John F., Worcester, Mass. Hoeing or cultivating machine	638,093	Nov. 28	3942	828	89	1803
Carroll, John L. and J. T., Cedar Hill, La. Plow	631,152	Aug. 15	2654	600	88	1277
Carroll, Ralph W., Blandinsville, Ill. Incandescent electric lamp	626,017	May 30	3811	866	87	1519
Carroll, Robert E., Lima, Ohio. Trolley	622,991	Apr. 11	1449	334	87	296
Carroll, Scudder, assignor of one-half to Abbot-Gamble Contracting Company, St. Louis, Mo. Dowel for conduit-pipes	616,895	Jan. 3	56	11	86	13
Carroll, William N., assignor of one-third to G. E. Kent, Minneapolis, Minn. Blocking device for split switches	618,536	Jan. 31	3206	709	86	686
Carryl, Nathan F., assignor to J. R. Hay, Nutley, N. J. Brush	617,316	Jan. 10	866	204	86	188
Carskadon, Thomas R., Keyser, W. Va. Vehicle-body	630,032	Aug. 1	581	127	88	838
Carskadon, Thomas R., Keyser, W. Va. Vehicle-standard	630,858	Aug. 15	2114	480	88	1173
Carson, Lauris L., Pittsburg, assignor of one-half to A. Friedsam, Allegheny county, Pa. Printing-press	626,965	June 13	1402	309	87	1904
Carson, Lauris L., assignor of one-half to A. Friedsam, Pittsburg, Pa. Printing-press	627,047	June 13	1545	337 338	87	1932
Carson, Lucius A., Hopedale, Ohio. Automatic lathe	632,100	Aug. 29	4389	986	88	1646
Carter, Albert L., Altoona, Pa. Stair-rod securer	640,092	Dec. 26	3508	805	89	2613
Carter, Charles D., Spring Arbor, Mich. Cultivator	627,048	June 13	1547	338 339	87	1932
Carter, Charles R., *et al.* (See Shackelford, William A., assignor.)						
Carter, Clarence W., Howard Lake, Minn. Painting apparatus	626,750	June 13	969	220	87	1820
Carter-Crume Company. (See Ehrlich, Leo, assignor.)						
Carter-Crume Company. (See McDowell and Bengough, assignors.)						
Carter-Crume Company. (See Whitelaw, James, assignor.)						
Carter, Dan E., Traverse City, Mich. Adjustable chair	617,638	Jan. 10	1476	337	86	307
Carter, Edward B., Huntsville, Ala. Eye-strengthener	630,859	Aug. 15	2116	480	88	1173
Carter, Elisha A. (See Carter, William L. B. and E. A.)						
Carter, Emory J., Fremont, Ohio. Bill-file	626,141	May 30	4077	930	87	1566
Carter, Emory J., Fremont, Ohio. Manifolding sales-book	627,481	June 27	2365	521	87	2130
Carter, Herman, Mount Sterling, Ohio. Machine for weaving cross-wires in wire fences	627,800	June 27	2957	646	87	2248
Carter, James, Lockport, N. Y. Luggage-carrier	633,281	Sept. 19	2042	479 480	88	2135
Carter, James E., and S. A. Wright, Halifax, England. Machine for tapping nuts	617,078	Jan. 3	418	102 103	86	81
Carter, Jesse M., Bowie, Tex. Draft attachment	628,883	July 11	1750	409	88	361
Carter, John J., Newark, N. J. Mop head or holder	623,884	Apr. 25	3115	717	87	655
Carter, John R., Cincinnati, Ohio. Washing-machine	618,331	Jan. 24	2806	622	86	595
Carter, John R., assignor to E. H. Huenefeld, Cincinnati, Ohio. Stove	633,715	Sept. 26	2865	666	88	2309
Carter, John S., Buffalo, N. Y. Feed-water apparatus	635,233	Oct. 17	2317	541	89	491
Carter, John W., New York, N. Y. Strainer attachment for tea or coffee trays	631,696	Aug. 22	3638	820	88	1492
Carter, Lem A., *et al.* (See Flanigan, Joseph H., assignor.)						
Carter, Marguerite H., New York, N. Y. Veil-fastener	634,878	Oct. 17	1667	392	89	364
Carter, Matthew O., Batson, S. C. Wrench	637,921	Nov. 28	3605	755	89	1739
Carter, Nicholas H. (See Anderson, August R., assignor.)						
Carter, Rice & Company. (See Crowell, Charles H., assignor.)						
Carter, Robert A., Pittsburg, Pa. Pile for manufacturing bars	623,652	Apr. 25	2675	614	87	569
Carter, Robert A., Pittsburg, Pa. Pile for manufacturing shafts, &c	623,653	Apr. 25	2676	614 615	87	569
Carter, Robert A., Pittsburg, Pa. Puddling-iron	623,654	Apr. 25	2678	------	87	569
Carter, Robert H. (See Cheshire and Simcoe, assignors.)						
Carter, Warren N., assignor to American Laundry Machinery Company, Cincinnati, Ohio. Combined sterilizing and washing machine	617,279	Jan. 3	797	185	86	157
Carter, William, Glasgow, Scotland. Sheet-adjuster for printing-presses	617,851	Jan. 17	1895	423	86	409
Carter, William, Glasgow, Scotland. Machine for making paper bags	626,319	June 6	188	46,47	87	1649
Carter, William, Glasgow, Scotland. Apparatus for feeding sheets of paper to printing or other machines	631,950	Aug. 29	4102	920 921	88	1590
Carter, William, Glasgow, Scotland. Pneumatic feeding-machine	639,960	Dec. 26	3278	750 751	89	2566
Carter, William L. B. and E. A., Corinth, Miss. Car-coupling	619,387	Feb. 14	1098	248	86	1044

Alphabetical list of patentees—Continued.

Name, residence, and invention.	No.	Date.	Monthly volume.		Official Gazette.	
			Spec.	Dr'g.	Vol.	Page.
Carter, William T., Chicago, Ill. Ice-weighing tongs	626,052	May 30	3883	882	87	1531
Carter's Ink Company. (See Hopkins, Robert G., assignor.)						
Cartier, Jacob, assignor of one-half to A. G. Pelletier, Biddeford, Me. Combined fish and animal trap	625,742	May 30	3236	735	87	1409
Cartledge, Wilfred B., assignor to W. H. Wilmarth & Company, Attleborough, Mass. Machine for making curb-chains	628,439	July 4	910	212 213	88	175
Cartwright, David J., assignor to Electrical Safety Company, Boston, Mass. Electrical protector	618,812	Jan. 31	3692	827	86	782
Cartwright, Walter, New York, N. Y. Tile	629,337	July 25	2576	597	88	555
Carver, Cephas R. (See Griffin, Harry S., assignor.)						
Carver, Horace P., Racine, Wis. Core-heating sad-iron	616,896	Jan. 3	58	11	86	13
Carver, John M., Fair Forest, S. C. Windlass water-elevator	629,769	Aug. 1	15	4,5	88	724
Carver, William J., Tacoma, Wash. Propeller	619,136	Feb. 7	650	140	86	938
Cary, John B., Baltimore, Md. Electrical cooking apparatus	628,695	July 11	1428	332	88	297
Cary, Lewis C., assignor of one-half to J. Caldwell, El Paso, Tex. Car-coupling	621,224	Mar. 14	1286	284 285	86	1764
Cary, Sheldon, New York, N. Y. Window-seat	627,072	June 13	1587	347	87	1939
Cary, Stephen W., and E. Saarbach, New York, N. Y. Fire-extinguisher	626,855	June 13	1185	263	87	1861
Cary, W. H. (See Morton, Ephraim S., assignor.)						
Cary, William E., Springfield, Vt. Carbureter	638,557	Dec. 5	695	148	89	1998
Caryl, Charles W. (See Badger, Harry S., assignor.)						
Caryl, Ernest D., and C. S. Snyder, Scranton, Pa. Coal-separator	620,416	Feb. 28	2936	674	86	1435
Casaday, William L., Soutb Bend, Ind. Disk plow	625,320	May 23	2498	567 568	87	1247
Casaday, William L., South Bend, Ind. Rotary engine	632,642	Sept. 5	779	180 181	88	1862
Casaday, William L., South Bend, Ind. Flexible shaft	636,758	Nov. 14	1013	216	89	1153
Casaday, William L., South Bend, Ind. Rotary engine	638,173	Nov. 28	4093	863 864	89	1832
Cascaden, Thomas, Jr. (See Davis and Cascaden.)						
Case, Adelbert B., Springfield, Mass. Ball-bearing adjusting device for lawn-mowers	630,033	Aug. 1	582	127	88	838
Case, Alfred W. and L. W., Highland Park, Conn. Pressure-blower	621,030	Mar. 14	949	206	86	1698
Case, Alfred W. and L. W., Highland Park, Conn. Apparatus for heating liquids	621,031	Mar. 14	950	207	86	1698
Case, Alfred W. and L. W., Highland Park, Conn. Pulp-board-making machine	633,072	Sept. 12	1600	373	88	2038
Case, Alfred W. and L. W., Highland Park, Conn. Rotary pump	640,093	Dec. 26	3510	805	89	2613
Case, Charles A., assignor of one-half to G. L. Stuebner, New York, N. Y. Bucket conveyer	633,118	Sept. 19	1729	405 406	88	2074
Case, Cromwell O., assignor to P. & F. Corbin, New Britain, Conn. Door-check	627,717	June 27	2811	615 616	87	2218
Case, Cromwell O., assignor to P. & F. Corbin, New Britain, Conn. Liquid door-check	629,001	July 18	1971	458 459	88	421
Case, Cromwell O., assignor to P. & F. Corbin, New Britain, Conn. Liquid door-check	632,697	Sept. 12	933	217	88	1906
Case, Ellen M., Cbicago, Ill. Work-holder for sewing-machines	620,277	Feb. 28	2700	619	86	1390
Case, Ensley J. (See Bunn and Case.)						
Case, Frank, Robinson, Kans. Vehicle-wheel	619,669	Feb. 14	1589	363	86	1137
Case, Frank E. (See Potter and Case.)						
Case, Frank E., Schenectady, N. Y., assignor to General Electric Company, of New York. Train traction system	618,054	Jan. 24	2274	507	86	497
Case, Frank E., Schenectady, N. Y., assignor to General Electric Company, of New York. Cable-coupling	625,828	May 30	3415	775	87	1443
Case, Henry, and E. D. Shaw, Gloversville, N. Y. Dental plugger	628,524	July 11	1084	253	88	228
Case, Henry J., Auburn, assignor to Adriance, Platt & Company, Pougbkeepsie, N. Y. Grain-binder	631,456	Aug. 22	3205	727 728	88	1405
Case, Lawrence W. (See Case, Alfred W. and L. W.)						
Case, Perry J., and J. O. Mayball, Roxie, Miss. Truck for driving up creeping railway-rails	638,094	Nov. 28	3943	829	89	1803
Case, Walter D., Granby, Conn. Cattle-stanchion	633,799	Sept. 26	2994	696	88	2336
Case, Warren. (See Burns, Eugene A., assignor.)						
Case, William, Cbicago, Ill., assignor to National Malleable Castings Company, Cleveland, Obio. Draft-rigging	640,094	Dec. 26	3511	805 806	89	2613
Case, William W., Aurora, Ill. Window-screen	637,083	Nov. 14	1637	354	89	1276
Case, Wilmer S., San José, Cal. Can-soldering apparatus	630,591	Aug. 8	1661	373	88	1060
Casey, Frank P., Bloomington, Ill. Adjustable window-shade fixture	627,801	June 27	2958	647	87	2248
Casey, James. assignor of one-half to J. F. Williamson, Minneapolis, Minn. Automatic cboke-feed device for lubricators	624,624	May 9	1243	279	87	964
Casey, John J., and H. Pries, Michigan City, Ind. Body-bolster for cars	624,174	May 2	426	88	87	781
Casey, John W., Sistersville, W. Va. Feed-water heater	627,980	July 4	39	9	88	10
Casford, John H., Milwaukee, Wis. Inhaling and spraying apparatus	626,751	June 13	970	220	87	1820
Casgrain, Henri E., Quebec, Canada. Carbureter for explosive-engines	633,800	Sept. 26	2995	697	88	2336
Cash, Arthur W., assignor to Foster Engineering Company, Newark, N. J. Check-valve for boilers	626,593	June 6	670	155	87	1744
Cash, Arthur W., assignor to Foster Engineering Company, Newark, N. J. Combined relief and back-pressure valve	627,049	June 13	1550	339	87	1933
Cash, Arthur W., assignor to Foster Engineering Company, Newark, N. J. Relief-valve	627,390	June 20	2194	482 483	87	2080
Cash, Arthur W., assignor to Foster Engineering Company, Newark, N. J. Automatic belt or motor-switch shifter	627,903	June 27	3144	687	87	2286
Cash, Bogan B., and J. E. Stephens, Wayland, Tex. Ant-trap	622,992	Apr. 11	1451	334	87	296
Cash, Cornelius W. (See Swarthout, George M., assignor.)						
Cashin, Daniel J., assignor of one-half to J. H. Stanton, Newburg, N. Y. Reel	619,278	Feb. 14	914	206	86	1006
Cashion, Edward M., Glens Falls, assignor to himself, and J. H. S. McCarthy, Soutb Glens Falls, N. Y. Arc-lamp	629,424	July 25	2737	636	88	589
Cashmore, George, Oakland, Cal. Traction-engine	620,735	Mar. 7	369	75	86	1573
Casket Lid Adjustment Company. (See Garrison, Thomas S., assignor.) (Reissue.)						
Caskey, George, Page, Iowa. Dumping wagon-box	616,897	Jan. 3	60	12	86	14
Casler, Herman, Canastota, N. Y. Cbuck	638,905	Dec. 12	1333	303	89	2146
Casler, Herman, Canastota, assignor to American Mutoscope Company, New York, N. Y. Reel	617,435	Jan. 10	1112	254	86	235
Casler, Herman, Canastota, assignor to American Mutoscope Company, New York, N. Y. Kinetographic camera	629,063	July 18	2078	484 485	88	442
Casler, Herman, Canastota, N. Y., assignor to American Mutoscope Company, of New Jersey. Consecutive-view apparatus	636,715	Nov. 7	890	197	89	1104
Casler, Herman, Canastota, N. Y., assignor to American Mutoscope Company, of New Jersey. Consecutive-view apparatus	636,717	Nov. 7	894	198	89	1105
Casler, Herman, and J. A. Pross, Canastota, N. Y., assignors to American Mutoscope Company, of New Jersey. Film-feeding mecbanism for consecutive-view apparatus	636,716	Nov. 7	893	197	89	1105
Casler, Philo W., Little Falls, N. Y. Washing-machine	624,453	May 9	931	208	87	903
Casler, Philo W., Little Falls, N. Y. Washing-macbine	636,320	Nov. 7	158	34	89	952
Casler, Richard W., Little Falls, N. Y. Fruit-picker	630,446	Aug. 8	1387	311	88	1007

Alphabetical list of patentees—Continued.

Name, residence, and invention.	No.	Date.	Monthly volume.		Official Gazette.	
			Spec.	Dr'g.	Vol.	Page.
Casner, William A., Earlville, Ill. Nut-lock	619,137	Feb. 7	651	140	86	939
Caspar, Alfred L. E., La Garenne-Colombes, France. Advertising means	630,486	Aug. 8	1464	327	88	1022
Caspari, Max H., New York, N. Y. Electric switch	622,116	Mar. 28	2931	665	86	2110
Casper, Louis, Chicago, Ill. Electric massage instrument	637,321	Nov. 21	2124	457	89	1385
Casper, Louis, assignor of one-half to A. H. Peirce, Chicago, Ill. Electric heater	620,086	Feb. 21	2361	535	86	1311
Cassaday, Harry J., *et al.* (See Hall, William H., assignor.)						
Cassal, Hans J. S., London, England. Lathe tool-holder	637,084	Nov. 14	1638	354	89	1276
Cassard. Herbert. (See Miller, Andrew E., assignor.)						
Cassel, Elroy E. (See Warren, Alpheus F., assignor.)						
Cassella & Co., Leopold. (See Blank, Rubin, assignor.)						
Cassella & Co., Leopold. (See Boehler, Martin, assignor.)						
Cassidy, Henry M., Philadelphia, Pa. Condiment-holder	635,275	Oct. 17	2397	558	89	506
Castelazo, Arthur, *et al.* (See Buckingham, Albert E., assignor.)						
Castelberg, Henry. (See Schild, Edward H., assignor.)						
Casterlin, Warren S., Pittston, Pa. Tongs	638,378	Dec. 5	371	77	89	1937
Castle, Alfred M. (See Drake, George H., assignor.)						
Castle, Arthur. (See Castle, Wilmot and A.)						
Castle, William H., assignor of one-half to Geneva Cycle Company, Geneva, Ohio. Handle-bar for bicycles	624,296	May 2	642	141	87	822
Castle, Wilmot and A., Rochester, N. Y. Food-warmer	626,219	June 6	11	3	87	1617
Castro, Angel de, assignor of one-half to J. Ferro, New York, N. Y. Means for utilizing galvanic cells or batteries	633,801	Sept. 26	2997	697	88	2336
Caswell, William A., Chicago, Ill. Freight-car	619,670	Feb. 14	1590	363	86	1138
Catanzano, Gerolamo. (See Catanzano, Giacomo and G.)						
Catanzano, Giacomo and G., Newton, Mass. Propeller	636,488	Nov. 7	443	98	89	1010
Cater, John M. (See Highfield and Cater.)						
Cater, John M. (See Wilson and Cater.)						
Cathcart, Frank H., Alexandria, Va., assignor to Empire Engine and Motor Company, New York, N. Y. Tool-holder	628,756	July 11	1528	353	88	319
Cathcart, Frank H., Alexandria, Va., assignor to Empire Engine and Motor Company, New York, N. Y. Valve for power-driven tools	630,447	Aug. 8	1388	311	88	1007
Cathcart, Frank H., Alexandria, Va., assignor to Empire Engine and Motor Company, New York, N. Y. Rotary engine	630,588	Aug. 8	1651	369, 370	88	1058
Cathcart, Frank H., Alexandria, Va., assignor to Empire Engine and Motor Company, New York, N. Y. Power-driven tool	630,589	Aug. 8	1653	370	88	1059
Cathcart, Frank H., Alexandria, Va., assignor to Empire Engine and Motor Company, New York, N. Y. Rotary engine	630,590	Aug. 8	1655	370, 371, 372	88	1059
Catlett, Charles, Staunton, Va. Bone-black substitute and manufacture	617,079	Jan. 3	422	------	86	81
Catlett, Charles, Staunton, Va. Revivifying bone-black	617,080	Jan. 3	423	------	86	82
Catlett, Charles, Staunton, Va., assignor to C. W. Meinecke, Jersey City, N. J. Nursing-nipple	639,148	Dec. 12	1747	404	89	2227
Catlin, Charles M., administrator. (See Hulse, William W.)						
Catois, Ernest. (See Draullette and Catois.)						
Caton, John J., Phillipsburg, N. J. Car-coupling	630,655	Aug. 8	1773	399	88	1081
Caton's Foundry and Machine Company. (See Warring, Franklin B., assignor.)						
Catudal, Arthur, New Bedford, Mass. Bicycle	635,744	Oct. 31	3314	765	89	714
Caughey, Frank T. (See Austin, David E., assignor.)						
Caulfield, James P., Baltimore, Md. Fire-escape	633,357	Sept. 19	2199	516	88	2166
Cavagnaro, Francis. (See Cavagnaro, John and F.)						
Cavagnaro, John and F., New York, N. Y. Kneading-machine	620,736	Mar. 7	371	76	86	1574
Cavallaro, Francisco, San José, assignor of one-third to I. Trapani, San Francisco, Cal. Attachment for Artesian wells	627,250	June 20	1901	419	87	2022
Cavallaro, Francisco, San José, assignor of one-third to I. Trapani, San Francisco, Cal. Attachment for Artesian wells	627,251	June 20	1902	419	87	2022
Cavanagh, John R. (See Rowley and Cavanagh.)						
Caveneget, Eugene, Newark, N. J., assignor, by mesne assignments, to Composite Veneering Company, of New Jersey. Composite embossed paneling and veneering	628,647	July 11	1341	312	88	279
Cavers, James B., New York, N. Y. Collar or cuff button	637,233	Nov. 21	1958	418	89	1352
Caves, Chiever C. and L. S., Fremont, Iowa. Planter	617,639	Jan. 10	1479	337, 338	86	307
Caves, Lemuel S. (See Caves, Chiever C. and L. S.)						
Cavins, John M., St. Louis, Mo. Belt-fastener	630,180	Aug. 1	841	181	88	889
Cavitt, James K. (See Watson and Cavitt.)						
Cawley, James A. (See Sullivan, Daniel F., assignor.)						
Cayce, Newnan. (See Bogle, William L., assignor.)						
Cayemberg, Eli, Rosiere, Wis. Belt-guide	636,951	Nov. 14	1390	296	89	1228
Cayouette, Jean E., Ste. Claire, Canada. Curd-cutter	631,557	Aug. 22	3408	770	88	1446
Caywood, Walter L., Hume, Mo. Music-leaf turner	621,991	Mar. 28	2717	613, 614	86	2067
Cazin, Francis M. F., Hoboken, N. J. Electric incandescent lamp	620,640	Mar. 7	171	37	86	1535
Cazin, Francis M. F., Hoboken, N. J. Electric incandescent lamp	621,291	Mar. 14	1404	311	86	1786
Cazin, Francis M. F., Hoboken, N. J. Electric incandescent vacuum-lamp	621,292	Mar. 14	1407	312	86	1787
Cedarstrom, John, assignor to United States Aerating Fountain Company, New York, N. Y. Apparatus for dispensing aerated liquids	633,802	Sept. 26	2999	697, 698	88	2337
Cederstrom, John, assignor to United States Aerating Fountain Company, New York, N. Y. Bottle-fastening device	630,286	Aug. 1	1019	225	88	924
Cederstrom, John, New York, N. Y., assignor to United States Aerating Fountain Company, of New York. Bottle-sealing device	633,803	Sept. 26	3001	698	88	2337
Cejka, Alois, Munich, Germany. Apparatus for preventing water-blows in steam-engines	636,894	Nov. 14	1267	272, 273	89	1205
Celluloid Company. (See Axtell, Frank C., assignor.)						
Celluloid Company. (See Miller, Horace E., assignor.)						
Celluloid Company (See Stevens, John H., assignor.)						
Central Cyclone Company. (See Straker, Sidney, assignor.)						
Central Union Brass Company. (See Wood, Montraville M., assignor.)						
Centrifugal Pump and Mining Company. (See Cram, Alonzo W., assignor.)						
Century Machine Company. (See Burridge, Lee S., assignor.)						
Century Machine Company. (See Hess, Edward B., assignor.)						
Century Machine Company. (See Hess and Granger, assignors.)						
Century Machine Company. (See Hess and Stoughton, assignors.)						
Century Machine Company. (See Hess and Tyberg, assignors.)						
Century Machine Company. (See Jones and Myers, assignors.)						
Century Machine Company. (See Myers, Lewis C., assignor.)						
Certain, Jerry M., assignor of one-half to A. Toffaleti, Tampa, Fla. Parcel-carrier for bicycles	639,708	Dec. 26	2812	649	89	2472

Alphabetical list of patentees—Continued.

Name, residence, and invention.	No.	Date.	Monthly volume. Spec.	Monthly volume. Dr'g.	Official Gazette. Vol.	Official Gazette. Page.
Chace, Albert F., assignor to Chace Carbide and Gas Generator Company, Boston, Mass. Acetylene-generating apparatus	638,834	Dec. 12	1208	272	89	2122
Chace Carbide and Gas Generator Company. (See Chace, Albert F., assignor.)						
Chace, Malcolm G., Central Falls, R. I., assignor of seventeen-twentieths to W. H. Baker and F. E. Kip. Loom	633,976	Sept. 26	3308	770, 771	88	2398
Chaddock, George A., London, England. Ship	628,757	July 11	1530	354, 355	88	319
Chadwick, Alfred. (See Lavigne, George J., assignor.)						
Chadwick, Cornelia J., New York, N. Y. Carrier	620,694	Mar. 7	288	58	86	1558
Chadwick, Edmund, Bolton, England. Vacuum-valve	622,117	Mar. 28	2932	665	86	2110
Chadwick, Everett D., trustee. (See Derby, John H., assignor.)						
Chadwick, John. (See Whitaker and Chadwick.)						
Chadwick, Willard H., Worcester, Mass. Key and knob locking attachment for doors	633,336	Sept. 19	2161	506	88	2159
Chaffee, Edward F., Albany, N. Y. Water-closet seat	617,875	Jan. 17	1948	436	86	419
Chaffee, William H., Sherburne, N. Y. Cutter-head	616,898	Jan. 3	61	12	86	14
Chaillet, Adolphe A., assignor to Shelby Electric Company, Shelby, Ohio. Socket for incandescent lamps	625,321	May 23	2499	568	87	1247
Chain, Elmer E., Boston, Mass. Machine for filling hides or skins	634,325	Oct. 3	678	163, 164	89	136
Chainey, Amede A. (See Bouton, Green, Ross, and Chainey.)						
Chalfant, Crawford D., Thornport, Ohio, assignor of one-half to F. L. Norton, Racine, Wis. Attachment for threshing-machines	616,899	Jan. 3	62	12, 13	86	14
Challenge Machinery Company. (See Sherman, Richard E., assignor.)						
Challenger, George C. (See Gledhill and Whitney, assignors.)						
Challoner, Frank, deceased, Oshkosh, Wis.; E. R. Hicks, administrator. Shingle-sawing machine	627,391	June 20	2196	483, 484	87	2081
Chalmers, William B., London, England. Box or case	621,032	Mar. 14	953	207	86	1698
Chaloner, Burt, Anaconda, Colo. Mining-pump attachment	619,938	Feb. 21	2101	477	86	1262
Chamberlain, Arthur N., Highbury, Moorgreen, assignor to Hoskins & Son, Limited, Birmingham, England. Berth	622,993	Apr. 11	1452	335	87	296
Chamberlain, Blanchard, Bellefontaine, Ohio. Mail catcher and deliverer	632,101	Aug. 29	4393	987	88	1647
Chamberlain, Calvin, Foxcroft, Me. Paddle-wheel	635,843	Oct. 31	3505	805	89	751
Chamberlain, Charles C., *et al.* (See Dunham, Charles L., assignor.)						
Chamberlain, Charles S., Oakland, Cal. Wood-preserving apparatus	621,774	Mar. 21	2295	516	86	1971
Chamberlain, Frank R., assignor to Newton Rubber Works, Newton, Mass. Machine for vulcanizing bicycle-tires	620,695	Mar. 7	290	58	86	1558
Chamberlain, Frank R., assignor to Newton Rubber Works, Newton, Mass. Means for joining ends of inner tubes of pneumatic tires	623,074	Apr. 11	1589	366	87	324
Chamberlain, George D. (See Chamberlain, John N., assignor.)						
Chamberlain, John N., assignor to G. D. Chamberlain, Springfield, Mass. Mechanism for feeding and melting metal	623,075	Apr. 11	1590	367	87	324
Chamberlain, John W., Dallas, Oreg. Burial-vault	633,804	Sept. 26	3002	698	88	2337
Chamberlain, Joseph B., Washington, D. C. Mechanical movement	621,487	Mar. 21	1756	391	86	1866
Chamberlain, Paul M., Chicago, Ill., assignor to Eugene Dietzgen Company, of Illinois. Adjustable needle-point for drafting instruments	639,845	Dec. 26	3073	706	89	2523
Chamberlain, William C., Dubuque, Iowa. Tooth-beam for harrows	627,841	June 27	3028	661	87	2261
Chamberlin, Augusta P., Des Moines, Iowa. Game-cards for teaching music	621,323	Mar. 21	1472	326	86	1811
Chamberlin, Daniel W. (See Higgins, Benjamin F., assignor.)						
Chamberlin, Egbert V., San Diego, assignor of one-half to J. H. Andrew, Alameda, Cal. Continuous-rail construction	620,696	Mar. 7	292	59	86	1558
Chambers, Charles E. (See Chambers, Robert M. and C. E.)						
Chambers, Charles N., Coal Valley, Pa. Shell for high explosives	622,994	Apr. 11	1454	336	87	297
Chambers, Frederick, assignor to Stanton Iron Works Company, Limited, Stanton by Dale, England. Collapsible core-bar for use in casting metal pipes, &c	630,181	Aug. 1	844	181	88	889
Chambers, John E. (See Inskeep and Chambers.)						
Chambers, Robert M. and C. E., Belfast, Ireland. Machine for wiring bottles	632,174	Aug. 29	4530	1020, 1021, 1022, 1023, 1024	88	1675
Chambon, Louis, Paris, France. Machine for printing in colors	626,270	June 6	84	21, 22, 23, 24	87	1631
Champagne, Norbert, Ste. Monique, Canada. Stump extractor and conveyer	629,659	July 25	3169	739	88	672
Champlin, John L., *et al.* (See Ayers, Wilson D., assignor.)						
Chance, George H., Portland, Oreg. Stool-seat	635,234	Oct. 17	2319	542	89	491
Chance, Ransom M., Hooks Switch, Tex. Sash holder and lock	619,939	Feb. 21	2102	477	86	1262
Chandlee Fence Company. (See Chandlee, George H., assignor.) (Reissue.)						
Chandlee, George H., Washington, D. C. Wire fence	628,450	July 11	938	218	88	200
Chandlee, George H., Washington, D. C., assignor to Chandlee Fence Company, Baltimore, Md. Wire fence. (Reissue)	11,758	July 11	1812	422	88	373
Chandler, George W., Manhattan, Kans., assignor of one-half to W. C. Snow, Boston, Mass. Measuring-can	623,499	Apr. 18	2391	549	87	498
Chandler, George W., Manhattan, Kans., assignor of one-half to W. C. Snow, Boston, Mass. Scale	628,525	July 11	1086	253, 254	88	229
Chandler, George W., Manhattan, Kans., assignor of one-half to W. C. Snow, Boston, Mass. Lock for firearms	631,951	Aug. 29	4107	922	88	1591
Chandler, George W., Manhattan, Kans., assignor of one-half to W. C. Snow, Boston, Mass. Magazine-firearm	632,235	Sept. 5	12	3	88	1711
Chandler, George W., Ogden, Kans., assignor of one-half to W. C. Snow, Boston, Mass. Spring-hinge	637,852	Nov. 28	3469	724, 725	89	1711
Chandler, Howard L., Philadelphia, Pa., assignor to Rapid Stone Saw Company, Camden, N. J. Saw-blade for stone-sawing machines	621,225	Mar. 14	1288	285	86	1764
Chandler, James G., Racine, Wis. Syringe	633,805	Sept. 26	3003	698	88	2337
Chandler, Joseph H. (See Finney, James J., assignor.)						
Chandler, Josiah. (See Chandler, Samuel, Jr., and J.)						
Chandler, Perley, Barre, Vt. Combined door catch and buffer	632,043	Aug. 29	4285	963	88	1626
Chandler & Price Company. (See Burnham, Frank A., assignor.)						
Chandler & Price Company. (See Sixt, Fredrick C., assignor.)						
Chandler, Samuel, Jr., and J., assignors to Kirkham, Hulett & Chandler, Limited, London, England. Apparatus for washing or scrubbing gas	638,005	Nov. 28	3773	792	89	1771
Chandler & Taylor Company. (See Chandler, Thomas E., assignor.)						
Chandler, Thomas E., assignor to Chandler & Taylor Company, Indianapolis, Ind. Compound engine	621,958	Mar. 28	2651	597	86	2054
Chaney, William W., Fort Wayne, Ind. Wind-wheel regulator	636,952	Nov. 14	1392	296, 297	89	1228

Alphabetical list of patentees—Continued.

Name, residence, and invention.	No.	Date.	Monthly volume.		Official Gazette.	
			Spec.	Dr'g.	Vol.	Page.
Chania, Josef, Lemberg, Austria-Hungary. Phonograph	631,558	Aug. 22	3410	771	88	1446
Chantler, Israel B. (See MacKenzie, George W., assignor.)						
Chapin, Andrew V., Ferndale, Cal. Fishing-reel tension attachment	618,599	Jan. 31	3315	737	86	707
Chapin, Daniel S., Milford, Mass. Roller for cotton-gins	637,922	Nov. 28	3606	756	89	1740
Chapin, Henry A. (See Bullard, James H., assignor.)						
Chapin, John E., North Fork, Cal. Voting-machine	620,417	Feb. 28	2938	674, 675	86	1436
Chapin, William G., New York, N. Y., assignor to Thompson & Norris Company, of New Jersey. Manufacture of cellular board	618,376	Jan. 24	2886	640, 641	86	610
Chapin, William G., New York, N. Y., assignor to Thompson & Norris Company, of New Jersey. Non-conducting covering for pipes	639,523	Dec. 19	2458	568	89	2383
Chapin, Wood & Co. (See Brown, Charles W., assignor.)						
Chapleau, Wildric, assignor to J. Hewitt, O. S. Gauch, D. J. Wilson, E. A. Pauli, and C. T. Blackford, Chicago, Ill. Bicycle-lamp attachment	627,682	June 27	2747	601	87	2205
Chaplet, Frédéric. (See Maurice and Chaplet.)						
Chapman, Edward K., and G. B. Rubens, Indianapolis, Ind. Swivel display-fastener	619,671	Feb. 14	1591	364	86	1138
Chapman, Frank B. (See Gavitt, James A., assignor.)						
Chapman, Frank E., Medford, assignor to W. G. Nixon, Braintree, Mass. Automatic relay	636,116	Oct. 31	4060	928	89	860
Chapman, George, deceased, Rockford, Ill.; T. Tole, administrator. Mowing-machine	620,697	Mar. 7	294	59	86	1559
Chapman, George T., New York, N. Y. Glove-fastener	635,655	Oct. 24	3135	722	89	666
Chapman, James W., Elyria, Ohio. Joint for shears	624,175	May 2	427	88	87	782
Chapman, John B., *et al.* (See Cleasby, William H., assignor.)						
Chapman, Joseph L., Haddonfield, N. J., assignor to W. H. Mattson, Philadelphia, Pa. Steam or hot-water generator	617,393	Jan. 10	1035	235	86	220
Chapman, Joseph L., Haddonfield, N. J., assignor to Watson & McDaniel Company, Philadelphia, Pa. Reducing-valve and pump-governor	626,594	June 6	672	155	87	1745
Chapman, Joseph L., Haddonfield, N. J., assignor to Watson & McDaniel Company, Philadelphia, Pa. Ejector	636,953	Nov. 14	1394	297	89	1228
Chapman, Leo M., *et al.* (See Gelatt, Philo M., assignor.)						
Chapman, Leo M., and J. M. Gelatt, Louisville, Ky. Linotype-machine	624,454	May 9	933	208	87	904
Chapman, Leo M., and J. M. Gelatt, Louisville, Ky. Electric-light socket	638,833	Dec. 12	1207	272	89	2121
Chapman, Maro S., Hartford, Conn. Garment-supporting device	638,558	Dec. 5	696	148	89	1999
Chapman, Robert H., Washington, D. C. Genealogical chart	627,718	June 27	2812	616	87	2218
Chapman, Samuel E., Napa, Cal. Egg-beater	632,044	Aug. 29	4287	963	88	1627
Chapman & Sons Manufacturing Company. (See Chapman, William J., assignor.)						
Chapman, Truman, Concord, N. C. Boiler	636,633	Nov. 7	727	159	89	1068
Chapman, William C., Gracewood, Ga. Type-writer	624,297	May 2	643	141, 142	87	822
Chapman, William H., London, England. Driving-wheel for cycles	620,737	Mar. 7	372	76	86	1574
Chapman, William J., assignor to Chapman & Sons Manufacturing Company, Stoughton, Mass. Bicycle-guard	634,520	Oct. 10	1027	245, 246	89	223
Chappel, John M., Ennis, Tex. Traction-engine	626,666	June 13	808	184, 185	87	1790
Chappelear, Isaac E. (See Campbell, Cydnor B., assignor.)						
Chappell, Frank M., assignor to Pittsburg Gage and Supply Company, Pittsburg, Pa. Automatic feed-water regulator	635,126	Oct. 17	2132	499, 500	89	457
Chappell, William H., Chicago, Ill. Metal-planing tool	617,670	Jan. 10	1530	347	86	318
Chappuis, Edward H., Marysville, Cal. Cycle seat and handle-bar fastening attachment	625,020	May 16	1952	437	87	1120
Charbonneau, Arthur A. (See Ayotte and Charbonneau.)						
Charbonnel, Antoine. (See Roussy de Sales and Charbonnel.)						
Chardon, Arthur V., Paris, France. Chronometer-escapement	628,758	July 11	1533	355	88	319
Charest, Ludger, Stanley, Wis. Grab-hook	631,697	Aug. 22	3639	821	88	1493
Charles Efros Company. (See Efros, Charles, assignor.)						
Charles H. Childs & Company. (See Childs, Charles H., assignor.)						
Charles, James, Richmond, Ind. Burner for hydrocarbon liquids	627,176	June 20	1774	388	87	1997
Charles, John, Charlton, Md. Flour-bolt	624,752	May 9	1461	330	87	1007
Charles, Ulysses G., Oshkosh, Wis. Glue-applying machine	635,844	Oct. 31	3507	805	89	752
Charlet, Adolphe, Brussels, Belgium. Machine for jumping, welding, and bending metal bars	630,082	Aug. 1	677	145, 146	88	857
Charlton, Richard B., Milwaukee, Wis., assignor to Continuous Rail Joint Company of America, of New Jersey. Machine for removing saw-burs from fish-plates	632,236	Sept. 5	15	4	88	1712
Charlton, Richard B., Milwaukee, Wis., assignor to Continuous Rail Joint Company of America, of New Jersey. Punch for slotting fish-plates	632,237	Sept. 5	17	5	88	1712
Charron, Adelard E. (See Galarneau, Onesime, assignor.)						
Charter, James A., Chicago, Ill., and F. G. Hobart, Beloit, Wis., assignors to Fairbanks, Morse & Company, Chicago, Ill. Compressor	626,053	May 30	3884	882	87	1531
Charvat, Charles L., Peoria, Ill. Filter	621,899	Mar. 28	2538	573	86	2034
Chase, Abner S., Marshalltown, Iowa. Trap-net	619,138	Feb. 7	652	140	86	939
Chase, Charles A., Chicago, Ill. Electric letter for signs	623,275	Apr. 18	2002	459	87	419
Chase, Charles A., Chicago, Ill. Electric sign	626,667	June 13	810	185	87	1790
Chase, Charles F., Manchester, N. H., assignor to Jones & Lamson Machine Company, Springfield, Vt. Screw-cutting apparatus	619,139	Feb. 7	653	140, 141	86	939
Chase, De Forest W. (See Chase, Milton and D. W.)						
Chase, Ernest F., assignor of one-half to F. W. Chase, Bridgeport, Conn. Tracing instrument	637,923	Nov. 28	3607	756	89	1740
Chase, Frank E., Tonawanda, assignor of one-third to J. Mahar, North Tonawanda, N. Y. Packing for pump-plungers	626,856	June 13	1189	264	87	1862
Chase, Frank H., assignor to F. H. Chase Company, Chicago, Ill. Rest or support for flat-irons or similar articles	639,709	Dec. 26	2813	649	89	2472
Chase, Frank L., Louisville, Ky. Box-corner-locking device	622,118	Mar. 28	2933	665, 666	86	2110
Chase, Frank W. (See Chase, Ernest F., assignor.)						
Chase, Frederick S., Waterbury, Conn. Bicycle-pump	617,954	Jan. 17	2091	469	86	448
Chase, George N., U. S. Army. Bicycle-brake	637,085	Nov. 14	1639	354, 355	89	1277
Chase, George W., North Adams, Mass. Shoe	618,559	Jan. 31	3249	721	86	694
Chase, George W., North Adams, Mass. Shoe	620,278	Feb. 28	2701	620	86	1391
Chase, George W., North Adams, Mass. Shoe	622,444	Apr. 4	439	102	87	82
Chase, Jefferson, assignor to Chase Manufacturing Company, Portland, Me. Apparatus for disintegrating animal matter	636,759	Nov. 14	1013	216	89	1153
Chase, John F., St. Petersburg, Fla. Water still and condenser	627,904	June 27	3146	688	87	2287
Chase, Joseph H., assignor to Aeolian Company, Meriden, Conn. Adjustable caster	634,803	Oct. 10	1519	357	89	319
Chase, Joseph H., Meriden, Conn., assignor to Aeolian Company, New York, N. Y. Primary valve for automatic organs	627,570	June 27	2529	556	87	2162
Chase, Joseph H., Meriden, Conn., assignor to Aeolian Company, New York, N.Y. Tempo indicator and governor for musical instruments	638,955	Dec. 12	1421	325	89	2164
Chase Manufacturing Company. (See Chase, Jefferson, assignor.)						
Chase, Milton and D. W., Boston, Mass. Molding for electric wires or other purposes	628,696	July 11	1428	332	88	297

Alphabetical list of patentees—Continued.

Name, residence, and invention.	No.	Date.	Monthly volume.		Official Gazette.	
			Spec.	Drg.	Vol.	Page.
Chase, Newton A., Luverne, Minn. Door-check	626,804	June 13	1077	242	87	1841
Chase, Solon. (See Fergusson and Chase.)						
Chase, Stephen H., San José, Cal. Fruit-drying tray	635,423	Oct. 24	2723	624	89	586
Chasles, Adelphe L. P., Orleans, France. Buoyant propeller	626,668	June 13	812	185, 186	87	1791
Chastain, William C., Republic, Mo. Threshold	635,656	Oct. 24	3136	722	89	666
Chateau, Joseph D. C., assignor to A. Savarete, Paris, France. Composing-machine	637,086	Nov. 14	1641	355, 356, 357	89	1277
Chatfield, James M., Thomaston, Conn. Block for wire-drawing machines	639,664	Dec. 19	2725	626	89	2438
Chatfield, Susan, New York, N. Y. Sewing-machine attachment	620,418	Feb. 28	2943	675	86	1436
Chatham, Edwin C., San Francisco, Cal. Roller-bearing	638,863	Dec. 12	1255	284	89	2130
Chatterton, George T., Cortland, N. Y. Chafe-iron for vehicles	621,226	Mar. 14	1289	285	86	1765
Chatterton, George T., Cortland, N. Y. Body-hanger for vehicles	628,759	July 11	1534	355	88	320
Chaumeil, Antoine, Caborca, Mexico. Apparatus for concentrating dry placer material	635,886	Oct. 31	3583	824	89	766
Chauncey Thomas & Company. (See Lawrence, Joseph L., assignor.) (Reissue.)						
Chaussinand, Hippolyte P. L. F., St. Dizier, France. Crust-crushing instrument	632,444	Sept. 5	426	94	88	1790
Chaussinand, Hippolyte P. L. F., St. Dizier, France. Machine for bruising and softening certain articles of food	637,446	Nov. 21	2355	508	89	1431
Chauveau, Gustave V. L., assignor to La Société Anonyme des Voiturettes Automobiles, Paris, France. Motor-vehicle	627,842	June 27	3029	661, 662	87	2262
Chauveau, Gustave V. L., assignor to La Société Anonyme des Voiturettes Automobiles, Paris, France. Speed-regulator for explosive-engines	636,634	Nov. 7	727	159	89	1068
Chauvet, Joseph J. M., and J. W. Coulter, New York, N. Y. Sewing-machine	633,119	Sept. 19	1730	406, 407	88	2074
Chazotte, Jean F. (See Lavoie and Chazotte.)						
Chazotte, Jean F., Montreal, Canada. Fire-ladder or telescoping water-tower	629,493	July 25	2872	667	88	614
Cheesman, David J. (See Snyder, Cheesman, and Moore.)						
Cheesman, George R., Auburn, N. Y. Barrel-tap	629,152	July 18	2253	522	88	475
Cheesman, Roy E., Lafayette, Ind. Support for bicycles	627,744	June 27	2859	625	87	2229
Cheetham, Frank A. (See Bostock and Cheetham.)						
Cheetham, Frederick W., Hyde, England. Work-holder for hat-sewing machines	626,456	June 6	444	104	87	1700
Cheetham, Frederick W., Hyde, England. Sewing-machine for making hat-linings	627,050	June 13	1553	339, 340	87	1933
Chelimsky, Gregory, Tiflis, Russia. Injector-burner for hydrocarbon-furnaces	629,338	July 25	2577	597	88	555
Chemische Fabrik auf Actien, vormals E. Schering. (See Schmidt, Albrecht, assignor.)						
Chemische Fabrik Griesheim. (See Lang, Pistor, and Otto, assignors.)						
Chemische Fabrik Rhenania. (See Fuchs, Gotthold, assignor.)						
Chemische Fabrik von Heyden, Gesellschaft mit Beschränkter Haftung. (See Lottermoser, Alfred, assignor.)						
Chemische Fabrik von Max Jasper. (See Koch, Albert, assignor.)						
Chemische Fabrik, vormals Sandoz. (See Böniger and Lagutt, assignors.)						
Chenault, Stephen. (See Saunders and Chenault.)						
Cheney, Elmer R. (See Cheney, Homer A. and E. R.)						
Cheney, Frank P., Lowell, Mass. Sulky	629,237	July 18	2383	553	88	499
Cheney, Frank W., *et al.* (See Seavey, Charles O., assignor.)						
Cheney, George K., New York, N. Y. Mechanical movement	623,133	Apr. 18	1733	401	87	365
Cheney, Herbert W. (See Capen and Cheney.)						
Cheney, Herbert W., assignor to Leland & Faulconer Manufacturing Company, Detroit, Mich. Bevel-gear-generating machine	630,325	Aug. 8	1109	242, 243, 244	88	955
Cheney, Homer A. and E. R., Millersburg, Iowa. Gate	636,895	Nov. 14	1269	273	89	1205
Cheney, John T., Painesville, Ohio. Boot or shoe cleaning and polishing cabinet	636,198	Oct. 31	4208	967	89	891
Cheney, William A., Los Angeles, Cal. Wave-motor	632,833	Sept. 12	1193	272	88	1960
Chenoweth, John H., Terre Haute, Ind. Folding or collapsible box	628,760	July 11	1535	355, 356	88	320
Chenoweth, Robert J., Minnora, W. Va. Harrow	628,761	July 11	1536	356	88	320
Cherry, Edgar, Santa Rosa, Cal. Advertising device	622,416	Apr. 4	387	89	87	72
Cherry, John G., and S. W. Brainard, Cedar Rapids, Iowa. Liquid-measuring machine	623,500	Apr. 18	2393	549, 550	87	498
Cherry, John W., Denver, Colo. Stamp-box	619,719	Feb. 21	1702	389	86	1185
Cherry, William S., Streator, Ill. Screening and assorting apparatus for coal, &c	639,710	Dec. 26	2814	649, 650	89	2473
Chesebro, Denison P., New Rochelle, N. Y. Flagstaff-truck	638,095	Nov. 28	3944	829	89	1803
Chesebro, Whitman & Co. (See Bradley, John, assignor.)						
Cheshire, John H., and W. B. Simcoe, assignors of one-third to R. H. Carter, Winston, N. C. Tobacco-plug shaper	638,359	Dec. 5	697	148	89	1999
Chesley, Samuel A., Lunenburg, Canada. Rotary meter	638,625	Dec. 5	828	178	89	2024
Chesman, Harry, Chicago, Ill. Bridge-gate	634,717	Oct. 10	1380	325	89	292
Chesnay, Emile, and L. Pillion, Dijon, France. Apparatus for generating acetylene gas	617,436	Jan. 10	1113	254, 255	86	235
Chesney, Asbury F., Topeka, Kans. Corset-busk fastener	633,673	Sept. 12	1604	373	88	2039
Chesson, Frederick W., assignor to American Ring Company, Waterbury, Conn. Knob	627,802	June 27	2959	647	87	2248
Chester, George W., assignor to T. V. Shaughness, New York, N. Y. Hat and coat holder	638,196	Nov. 28	4141	874	89	1844
Chesterson, William, Crawfordsville, assignor to Indiana Manufacturing Company, Indianapolis, Ind. Pneumatic stacker	638,560	Dec. 5	698	148	89	1999
Chesterton, Arthur W., Boston, Mass. Gasket for steam-boilers and coupling therefor	623,982	May 2	49	11	87	711
Chevalier, Constant A., and N. G. Vasseur, Caen, France. Gear-case	619,672	Feb. 14	1592	364	86	1138
Cheyne, Frederick H., assignor to Cheyne & Garman, Indianapolis, Ind. Station-indicator	623,202	Apr. 18	1865	427	87	391
Cheyne & Garman. (See Cheyne, Frederick H., assignor.)						
Chial, John, assignor of one-half to N. E. Anderson, Lake Park, Minn. Straw-stacker	639,711	Dec. 26	2816	650	89	2473
Chicago Binder and File Company. (See Korsmeier, Fred, assignor.)						
Chicago Building and Manufacturing Company. (See Rankin and Busenbenz, assignors.)						
Chicago Cottage Organ Company. (See Kurtz, Fred K., assignor.)						
Chicago Development Company. (See Coleman, Clyde, assignor.)						
Chicago Handle Bar Company. (See Larsen, Ivert, assignor.)						
Chicago Last and Die Company. (See Eastman, Ernest A., assignor.)						
Chicago Novelty Manufacturing Company. (See Franklin, Edward A., assignor.)						
Chicago Novelty Manufacturing Company. (See Franklin, Edward R., assignor.)						
Chicago Packing Box Company. (See Halaburt, Louis A., assignor.)						
Chicago Railway Equipment Company. (See Burgess, Luther C., assignor.)						
Chicago Railway Equipment Company. (See Harrison, Philip B., assignor.)						
Chicago Railway Equipment Company. (See Huntoon, Charles F., assignor.)						
Chicago Time Register Company. (See Deubner, John W., assignor.)						
Chick, Joseph S., Jr. (See Nesbitt, Charles J., assignor.)						
Chickering, Frank W., Hardwick, assignor of one-half to O. R. Collins, Cabot, Vt. Whiffletree	630,326	Aug. 8	1120	245	88	958

Alphabetical list of patentees—Continued.

Name, residence, and invention.	No.	Date.	Monthly volume. Spec.	Monthly volume. Dr'g.	Official Gazette. Vol.	Official Gazette. Page.
Chickering & Sons. (See Bowen, Robert S., assignor.)						
Childers, Helen S., *et al.* (See Childers, Henry M., assignor.)						
Childers, Henry M., assignor of three-fourths to E. J. Smith and H. S. Childers, Ontario, Oreg. Needle-threader	638,701	Dec. 12	985	219	89	2078
Children, Edwin, Council Bluffs, Iowa. Cultivator	626,857	June 13	1191	264	87	1863
Children, Edwin, Council Bluffs, Iowa. Draft connection for wheeled cultivators	628,648	July 11	1342	312 313	88	279
Children, Edwin, Council Bluffs, Iowa. Cultivator	628,924	July 18	1836	427	88	365
Childress, Benjamin F., Dublin, Va., assignor of three-fourths to W. M. Hurlburt, Waterbury, Conn. Locking hat-rack and advertising device	635,089	Oct. 17	2054	484	89	442
Childress, Henderson P., Memphis, Tenn. Hub-securing device for vehicles	639,212	Dec. 19	1883	434	89	2266
Childrey, Benjamin D., Philadelphia, Pa. Grate for underfeeding furnaces	620,103	Feb. 28	2403	543	86	1333
Childs, Charles H., Utica, N. Y., assignor to Charles H. Childs & Company. Planter	619,388	Feb. 14	1099	248	85	1044
Childs, Eugene, and W. Sangster, assignors of one-third to E. O. Ely, Boston, Mass. Apparatus for manufacturing toe-calks	624,298	May 2	650	142 143	87	824
Childs, Frank W., *et al.* (See Taylor, Robert W., Sr., assignor.)						
Chillingworth, Felix, New Haven, Conn. Coffin-handle	632,914	Sept. 12	1348	310	88	1987
Chilson, Amory A., Salem, Mass. Leather-splitting machine	626,858	June 13	1193	264 265	87	1863
Chilstad, Martin J., Menominee, Mich. Crown-loop	618,838	Feb. 7	36	7	86	810
Chilton, Hudson G., Canton, Miss. Rope-measuring machine	617,280	Jan. 3	798	186	86	157
China, Archie. (See Moïse, Harmon D., assignor.)						
China, Archie, Sumter, S. C. Bicycle	630,182	Aug. 1	845	181	88	889
Chisholm, Boyd & White Company. (See Kautz, Andrew J., assignor.)						
Chisholm, George R., Sault Ste. Marie, Mich. Child's carriage	617,717	Jan. 17	1627	365 366	86	356
Chisholm, William R., Newark, N. J. Basin	624,176	May 2	429	88	87	782
Chisholm, William V., Ashdale, Canada. Wrench	620,738	Mar. 7	374	76	86	1574
Choate, John N., Carlisle, Pa. Retouching-frame	632,643	Sept. 5	781	181	88	1862
Chollar, Byron E., St. Louis, Mo. Electromagnetic actuating device	624,299	May 2	658	143	87	825
Chollar, Byron E., St Louis, Mo. Gas-purifier	632,397	Sept. 5	342	78	88	1774
Chollar, Byron E., St. Louis, Mo. Manhole-cover for gas-purifiers	632,398	Sept. 5	344	78	88	1774
Chollar, Byron E., St. Louis, Mo. Gas-purifier	632,399	Sept. 5	345	78	88	1774
Chollar, Byron E., St. Louis, Mo. Purifying gas	632,400	Sept. 5	346	79	88	1775
Chollar, Byron E., St. Louis, Mo. Gas-purifier	632,401	Sept. 5	349	79	88	1775
Cholodkowsky, André, Kiew, Russia. Brake-actuating device	633,228	Sept. 19	1952	458 459	88	2118
Chorley, John C., Warrington, England. Producing cellulose films for photographic or other purposes	634,571	Oct. 10	1126	267	89	242
Chouteau, Samuel J., and C. A. Dupuis, Montier-en-Der, France. Needle-threading device for sewing-machines	633,260	Sept. 19	2009	471 472	88	2129
Christ, Edward M., Pine Grove, Pa. Fire-escape	635,235	Oct. 17	2320	542	89	401
Christen, Edward. (See Terry and Christen.)						
Christen, Eugene, assignor of one-half to D. P. Bolds, Decatur, Ind. Combined clothes rack and closet	617,640	Jan. 10	1482	338	86	368
Christensen, Bernhard J., New York, N. Y. Device for mooring boats	632,238	Sept. 5	18	5	88	1712
Christensen, Christen. (See Seaborg and Christensen.)						
Christensen, Jens, New York, N. Y. Window-cleaning guard	630,592	Aug. 8	1663	373	88	1061
Christensen, Jorgen, San Francisco, Cal. Device for correcting compass errors	629,757	July 25	3352	782	88	707
Christensen, Jorgen, San Francisco, Cal. Liquid-balance rudder-brake	630,973	Aug. 15	2332	531	88	1215
Christensen, Martin F., Cleveland, Ohio. Apparatus for producing metallic spheres	632,336	Sept. 5	233	55	88	1753
Christensen, Martin F., assignor of one-fifth to C. J. Marbach, Cleveland, Ohio. Ball-forming machine	632,335	Sept. 5	231	55	88	1753
Christensen, Niels A., Milwaukee, Wis. Combined pump and motor	621,324	Mar. 21	1473	327	86	1813
Christensen, Niels A., Milwaukee, Wis. Air-brake apparatus for street-cars	625,540	May 23	2876	654	87	1321
Christensen, Niels A., Milwaukee, Wis. Means for lubricating electric motors	627,252	June 20	1903	419	87	2 23
Christensen, Niels A., Milwaukee, Wis. Combined pump and motor	635,280	Oct. 17	2404	560	89	597
Christensen, Niels A., Milwaukee, Wis. Combined valve and governor for air-brake pumps	635,424	Oct. 24	2724	625	89	586
Christensen, Peter. (See Nelson, John H., assignor.)						
Christensen, Peter T., San Francisco, Cal., assignor to Washburn & Moen Manufacturing Company, Worcester, Mass. Splice for old wire cables	620,739	Mar. 7	375	77	86	1575
Christian, J. Loomis, *et al.* (See Campbell, George L., assignor.)						
Christian, William I. (See Mundhenk and Christian.)						
Christiansen, John, and F. E. Thompson, Hartford, Conn. Automatic weighing-machine	634,745	Oct. 10	1427	337 338	89	301
Christianson, Christian, Greenfield, S. D. Harrow	630,656	Aug. 8	1774	399 400	88	1081
Christianson, Niels, New York, N. Y. Combined cane and folding chair	617,641	Jan. 10	1483	338	86	308
Christie, Charles D. J. (See Brydges, Samuel M., assignor.)						
Christie, James, assignor to A. & P. Roberts Company, Philadelphia, Pa. Beam-shears	625,289	May 16	2437	554	87	1208
Christie, James B., Corrigan, Tex. Churn	629,238	July 18	2384	553 554	88	499
Christie, James M., Glebe Point, and R. Rock, Burwood, New South Wales. Cylinder-valve for fluid-pressure engines	636,718	Nov. 7	897	198 199	89	1106
Christie, John H., assignor of one-half to J. H. Church, East Providence, R. I. Permutation-lock	621,992	Mar. 28	2719	614	86	2068
Christie, Thomas G. (See Frazier, George W., assignor.)						
Christie, William J., *et al.* (See Van Etten and Berry, assignors.)						
Christman, Augustus G., Reading, Pa. Washing-machine	627,297	June 20	1989	438	87	2040
Christman, Edward. (See Brennan and Christman.) (Reissue.)						
Christman, Theodore E. (See Miller, Ernest A., assignor.)						
Christman, Theodore E. (See Miller and Christman.)						
Christy, James, Jr., Akron, and H. E. Randall, Dayton, Ohio. Combined metal and rubber vehicle-tire	620,698	Mar. 7	295	59	86	1559
Christy, John K., Minneapolis, Minn. Shaft-tug	640,157	Dec. 26	3624	833	89	2637
Christy, Russ J., Fremont, Ohio. Knife	632,239	Sept. 5	20	5	88	1713
Chronik, August and L., New York, N. Y. Mechanism for moving films or webs intermittingly	627,952	June 27	3228	707 708	87	2304
Chronik, Louis. (See Chronik, August and L.)						
Chrystal, Andrew. (See Dixon, Lester A., assignor.)						
Church, Arthur L., Philadelphia, Pa. Truck	623,463	Apr. 18	2327	533 534	87	486
Church. Charles F., Newark, N. J. Providing vehicle-frames or the like with protected surfaces	633,306	Sept. 19	2081	488	88	2143
Church, Charles F., Newark, N. J. Vehicle-wheel	635,657	Oct. 24	3136	723	89	667

Alphabetical list of patentees—Continued.

Name, residence, and invention.	No.	Date.	Monthly volume. Spec.	Monthly volume. Dr'g.	Official Gazette. Vol.	Official Gazette. Page.
Church, Charles F., Newark, N. J. Manufacturing articles covered with celluloid or like material	635,917	Oct. 31	3651	842	89	780
Church, Frank S., Detroit, Mich. Smoke-consumer	623,353	Apr. 18	2144	493	87	447
Church, Frederick E., and W. C. Allen, Cambridge, N. Y. Machine for making coiled-wire handles	617,317	Jan. 10	869	204	86	188
Church, John H. (See Christie, John H., assignor.)						
Church, Walter A., Pittsburg, Pa. Bicycle-chain	624,177	May 2	430	88	87	782
Churchill, Aaron F. (See Shuster, Franklin B., assignor.)						
Churchill, Charles. (See Cain, Charles E., assignor.)						
Churchill, Levi M., assignor of one-half to S. Parzybok, Vinton, Iowa. Handkerchief-holder	629,660	July 25	3170	739	88	673
Churchill, Miles A., Valley City, N. D. Spring-plate for horses' feet	620,740	Mar. 7	376	77	86	1575
Churchill, Newton. (See Adams, Lewis T., assignor.)						
Churchill, Theodore F., Winsted, Conn. Reversible wrench	620,225	Feb. 28	2616	594	86	1373
Cifka, Henri, Prague, Austria-Hungary. Bicycle-stand	633,806	Sept. 26	3005	699	88	2338
Cily & Brother. (See Lindsay, Robert F., assignor.)						
Cincinnati Butchers Supply Company. (See Schmidt, Charles G., assignor.)						
Claassen, Heinrich W. H., Beuthen, Germany. Filter	635,745	Oct. 31	3315	765	89	714
Claes & Lehnbeuter Manufacturing Company. (See Lehnbeuter, Joseph, assignor.)						
Claflin, Charles. (See Kern and Claflin.)						
Claflin, Clarence A., Omaha, Nebr. Fish-hook	622,206	Apr. 4	14	3	87	5
Claflin, George D., Jr. (See McCarty and Claflin.)						
Clairefond, Urbain, Villeneuve-Saint-Georges, assignor to E. Bordier, Paris, France. Acetylene-gas generator	638,797	Dec. 12	1146	256	89	2110
Clamond, Charles, Paris, France. Incandescent gas-light mantle	631,617	Aug. 22	3509	791	88	1466
Clancy, Thomas M., New York, N. Y. Metallic support for plaster	617,458	Jan. 10	1146	261	86	241
Clancy, William J. (See Key, George F., assignor.)						
Clapp, Hadley C., and E. Lawson, Brewer, Me. Valve for oil-cans	635,658	Oct. 24	3138	723	89	667
Clapp, William J., Birmingham, England. Apparatus for purifying and recovering metals, &c	633,568	Sept. 26	2584	605	88	2256
Clapper, Gussie M., Axline, Ohio. Shears	629,339	July 25	2578	598	88	555
Claringburn, Joseph A., Nottingham, England. Knitting-machine	618,537	Jan. 31	3207	710 711	86	686
Clark, Albert C. (See Hornish, Frank W., assignor.)						
Clark, Albert C. (See Hurlbut, Frank, assignor.)						
Clark, Albert F., Cherokee, Iowa. Stacker for threshing-machines	633,074	Sept. 12	1606	374	88	2039
Clark, Alexander H., Fond du Lac, Wis. Bicycle-support	618,394	Jan. 31	2949	653	86	639
Clark, Alfred C., New York, N. Y., and E. R. Johnson, Camden, N. J. Sound recording and reproducing machine	624,625	May 9	1245	279	87	964
Clark, Alice, Chase City, Va. Game apparatus	617,562	Jan. 10	1343	302	86	280
Clark, Alvin. (See Baker, William H., assignor.)						
Clark, Byron, assignor to C. H. Woodruff Company, Elgin, Ill. Adjustable school seat and desk	631,559	Aug. 22	3412	771	88	1446
Clark, Byrou G., Boston, Mass. Clasp	630,034	Aug. 1	584	127	88	838
Clark, Byron O., Pasadena, Cal. Subirrigation system and valve	638,321	Dec. 5	252	53	89	1914
Clark, Charles, assignor of one-half to A. H. Canning, Toronto, Canada. Marine velocipede	637,547	Nov. 21	2545	551	89	1468
Clark, Charles E., Belmont, N. Y. Buffer for sawmill-carriages	638,213	Dec. 5	11	4	89	1869
Clark, Charles M., New York, N. Y. Automatic circuit-breaker	628,762	July 11	1539	356	88	320
Clark, Charles S. (See Baltzley, Henry H., assignor.)						
Clark, Charles T., *et al.* (See Dearborn, Charles A., assignor.)						
Clark, Daniel J. (See Eldridge, Clark and Blum.)						
Clark, Eaton K., Seymour, Iowa. Separable portable roof for haystacks, &c	627,051	June 13	1554	340	87	1933
Clark, Edwin S., Oak Alyn, England. Tamping-plug and process of and apparatus for making same	625,380	May 23	2602	592	87	1268
Clark, Edwin S., Oak Alyn, England. Brick, tile, or pipe die	625,381	May 23	2604	592	87	1268
Clark, Ella U., *et al.* (See Clark, Horace J., assignor.)						
Clark, Emri W., Nashua, N. H. Snow-guard	625,144	May 16	2176	494	87	1161
Clark, Eugene B., *et al.* (See Ray, Ernest P., assignor.)						
Clark, Francisco, Durango, Mexico. Button	633,752	Sept. 26	2926	680	88	2321
Clark, Frank H. (See Belanger, John T., assignor.)						
Clark, Frank H., New York, N. Y. Douche	625,382	May 23	2605	593	87	1268
Clark, Frank R., assignor of two-thirds to J. C. Clow, Pittsburg, and F. Montague, Conneautville, Pa. Multiple turning-lathe	630,287	Aug. 1	1021	225	88	924
Clark, Fred, Waco, Tex. Car-wheel	632,337	Sept. 5	235	55	88	1754
Clark, Frederick T., Somerville, N. J. Safety-pin	628,598	July 11	1211	283	88	254
Clark, George A., *et al.* (See Donigan, William J., assignor.)						
Clark, George H., Boston, Mass. Pneumatic wheel-tire	618,395	Jan. 31	2951	653	86	639
Clark, George H., Boston, Mass. Pneumatic wheel-tire	619,544	Feb. 14	1361	313	86	1095
Clark, George H., Boston, Mass. Pneumatic wheel-tire	623,276	Apr. 18	2003	459	87	420
Clark, George H., Boston, Mass. Hub and axle	623,277	Apr. 18	2004	460	87	420
Clark, George H., Boston, Mass. Pneumatic tire	623,278	Apr. 18	2005	460	87	420
Clark, George H., Boston, Mass. Pneumatic wheel-tire	636,377	Nov. 7	255	57	89	972
Clark, George H., Boston, Mass. Pneumatic wheel-tire	636,896	Nov. 14	1271	273	89	1205
Clark, George M., Higganum, assignor to E. S. Hubbard, Middletown, Conn. Disk plow	635,712	Oct. 24	3229	743 744	89	683
Clark, George W., Jefferson, Mich. Mold for water-tanks	626,054	May 30	3885	882	87	1531
Clark, Gordon P., London, England. Flexible and adjustable ruler for drawing curves	632,240	Sept. 5	21	6	88	1713
Clark, H. M. (See Braisher and Foulk, assignors.)						
Clark, Harry L. (See Loring and Clark.)						
Clark, Henry C., Chicago, Ill. Engraver's block or work-holder	624,179	May 2	432	89	87	782
Clark, Henry F. (See Barnum, William H., assignor.)						
Clark Henry F., Poughkeepsie, N. Y. Support for railway detector-bars	624,626	May 9	1247	279	87	964
Clark, Horace J., assignor, by mesne assignments, to E. U. Clark, Denver, Colo., C. D. Bouton, Ithaca, N. Y., and H. H. Green, Sunshine, Colo. Oxidizing-furnace	620,887	Mar. 14	650	142 143	86	1642
Clark, James E., assignor to B. A. Nicken, Long Branch, N. J. Churn	634,847	Oct. 10	1603	376	89	335
Clark, James M., Clarksdale, Mo. Corn-cultivator	631,498	Aug. 22	3294	749	88	1422
Clark, John A. (See Wyman and Clark.)						
Clark, John A., assignor to Crompton & Knowles Loom Works, Worcester, Mass. Loom-shuttle	619,720	Feb. 21	1703	390	86	1185
Clark, John A., and J. T. Cyr, assignors to Crompton & Knowles Loom Works, Worcester, Mass. Loom	636,635	Nov. 7	728	159 160	89	1068
Clark, John C., Atlanta, Ga. Journal-box for pulverizing-machines	639,360	Dec. 19	2181	505	89	2329
Clark, John E., assignor to N. M. Clark, New York, N. Y. Spoon-holder	625,435	May 23	2700	615	87	1286
Clark, John H., Schenectady, N. Y., and W. E. Quimby, Orange, N. J. Apparatus for automatically insuring periodic operation of stationary fire-pumps	630,860	Aug. 15	2117	480 481	88	1173

Alphabetical list of patentees—Continued.

Name, residence, and invention.	No.	Date.	Monthly volume.		Official Gazette.	
			Spec.	Drg.	Vol.	Page.
Clark, John L., Bangor, Me. Detachable cover for cooking utensils	632,307	Sept. 5	187	42	88	1744
Clark, John T., near St. Joseph, Mo. Garden-cultivator	635,659	Oct. 24	3139	723	89	667
Clark, John W., Culverton, Ga. Seed-planter	625,742	May 30	3239	735, 736	87	1410
Clark, Joseph O., Boston, Mass., assignor to Phoenix Manufacturing Company, South Berwick, Me. Curtain-rod fixture	633,569	Sept. 26	2585	606	88	2256
Clark, Lafayette V. (See Krebs, George W., assignor.)						
Clark, Matthew J., Chaparal, Ariz. Ter. Crosscut-saw	630,153	Aug. 15	2655	601	88	1278
Clark, Melville, Chicago, Ill. Adjusting and transposing device for automatic organs	625,744	May 30	3241	736	87	1410
Clark, Melville, Chicago, Ill. Pneumatic organ	626,320	June 6	190	47	87	1649
Clark, Melville, Chicago, Ill. Pneumatically-operated organ	632,698	Sept. 12	936	217, 218	88	1906
Clark, Mortimer J., Summitville, Colo. Car-coupling	627,324	June 20	2050	451, 452	87	2053
Clark, Nellie M. (See Clark, John E., assignor.)						
Clark, Oscar P., Bentonville, Ark. Fish-trap	633,229	Sept. 19	1954	459	88	2119
Clark, Perry. (See Griffith, Hazael, assignor.)						
Clark, Peter S., *et al.* (See Mallard, William S., assignor.)						
Clark, Robert E., Denver, Colo. Ore-concentrator	632,338	Sept. 5	236	56	88	1754
Clark, Robert M., Newton, Mass. Fusee for railway or other uses	630,035	Aug. 1	586	128	88	839
Clark, Robert W., assignor to C. M. Morse, Buffalo, N. Y. Combined beam-clamp and pipe-hanger	631,887	Aug. 29	3999	895	88	1571
Clark, Samuel H., Risingstar, Tex. Plow-set	638,702	Dec. 12	986	220	89	2078
Clark, Valentine, Dryad, Wash. Boiler-cleaner	624,627	May 9	1248	279	87	965
Clark, William. (See Wesley and Clark.)						
Clark, William, assignor of one-half to W. A. Doan, Hillsville, Ky. Plow-clevis	639,524	Dec. 19	2459	568	89	2384
Clark, William A. (See Merritt, George M., assignor.)						
Clark, William A., Boston, Mass. Divided pulley	634,260	Oct. 3	547	137	89	109
Clark, William A., assignor to Weyburn & Briggs Company, Rockford, Ill. Plow-point	628,431	July 4	894	209	88	172
Clark, William H., and L. J. Wattson, San Francisco, Cal. Name-plate	620,419	Feb. 28	2945	675	86	1436
Clark, William H., and L. J. Wattson, San Francisco, Cal. Pew rope and lock	629,661	July 25	3170	739	88	673
Clark, William K., Minersville, Pa. Game	630,657	Aug. 8	1776	400	88	1081
Clark, William L. (See Keller, Jacob, assignor.)						
Clark, William M., Bayonne, N. J. Acetylene-gas generator	632,511	Sept. 5	543	126	88	1814
Clark, William S. (See Keats and Clark.)						
Clarke, Alexander, New York, N. Y., assignor to R. Crabb, Newark, N. J. Float for flushing-tank valves	634,572	Oct. 10	1128	268	89	242
Clarke, Charles M., *et al.* (See Neale, Arthur H., assignor.)						
Clarke, Edward S., Richmond, Va. Sawing-machine	621,488	Mar. 21	1757	391, 392	86	1866
Clarke, Edward S., Richmond, Va. Clutch	628,390	July 4	824	192	88	157
Clarke, Edward S., Richmond, Va. Hose-gate	628,391	July 4	825	193	88	158
Clarke, George M., assignor to Weaver, Palmer & Richmond, Rochester, N. Y. Device for hooping wooden vessels	624,178	May 2	431	89	87	782
Clarke, Henry, Nottingham, England. Knitting-machine	638,096	Nov. 28	3945	829, 830	89	1804
Clarke, Henry L., Chicago, Ill. Combination-lock	619,940	Feb. 21	2103	477, 478	86	1262
Clarke, John H., Framingham, Mass. Developing-tray rocker	634,639	Oct. 10	1230	293	89	262
Clarke, John J., Washington, D. C., assignor, by mesne assignments, to Acme Ball Bearing Caster Company, New York, N. Y. Swivel-pivot and its bearing for gun-mounts	634,261	Oct. 3	551	137	89	110
Clarke, Mary J., Haverhill, Mass. Device for dropping oil	622,119	Mar. 28	2935	666	86	2110
Clarke, Patrick H. (See Anderson, John, assignor.)						
Clarke, Thomas, Interlachen, Switzerland. Composition of matter for producing enamel for refixing dental plates of artificial teeth	618,166	Jan. 24	2525	------	86	543
Clarke, Vincent A. (See Medary, Paul, assignor.)						
Clarke, William C., New York, N. Y., assignor to Gilbert & Barker Manufacturing Company, of Massachusetts. Water-heater	620,888	Mar. 14	655	143	86	1644
Clarke, William H., New York, N. Y. Automatic air-brake	635,995	Oct. 31	3807	876	89	811
Clarke, William M., Newark, N. J. Filter	636,489	Nov. 7	445	98	89	1011
Clarkson & Capel Steam Car Syndicate. (See Clarkson, Thomas, assignor.)						
Clarkson, Francis A., Duluth, Minn. Railway-tie	631,618	Aug. 22	3511	791	88	1467
Clarkson, Samuel E., Johnstown, Pa., assignor to Lorain Steel Company, of Pennsylvania. Maximum-traction truck	639,361	Dec. 19	2182	505	89	2329
Clarkson, Thomas, London, England. Apparatus for heating or cooling fluids	625,642	May 23	3056	695	87	1356
Clarkson, Thomas, Sutton, England. Mathematical instrument	633,307	Sept. 19	2082	488, 489	88	2143
Clarkson, Thomas, London, assignor of one-half to Clarkson & Capel Steam Car Syndicate, Limited, county of Surrey, England. Apparatus for burning gas or vapor	630,658	Aug. 8	1777	400, 401	88	1081
Clary, Edwin P. (See Darlington and Clary.)						
Classen, Alexander, Aix-la-Chapelle, Germany. Sodium salt of iodin compound	618,167	Jan. 24	2526	------	86	543
Classen, Alexander, Aachen, Germany. Iodin derivatives of phenols and bismuth salts thereof	618,168	Jan. 24	2528	------	86	543
Classen, Alexander, Aix-la-Chapelle, Germany. Iodin compound and making same	627,981	July 4	40	------	88	10
Classen, Alexander, Aix-la-Chapelle, Germany. Iodin derivatives of aromatic amins and making same	627,982	July 4	44	------	88	11
Classon, Walter G., Fitchburg, Mass., assignor to E. G. Soltmann, New York, N. Y. Surveyor's leveling-rod attachment	637,501	Nov. 21	2454	533	89	1450
Clatworthy, Walter A., assignor of one-half to J. H. Holmes & Co., Newcastle-upon-Tyne, England. Means for driving machines at variable speed by electric motors	629,952	Aug. 1	419	90, 91	88	804
Claughton, Henry, deceased; E. T. Fenwick, administrator, Washington, D. C. Machine for cracking nuts	632,216	Aug. 29	4614	1040	88	1690
Claughton, Rodolphe, Washington, D. C. Fastening or lock for trunks, valises, &c	631,775	Aug. 29	3816	850	88	1534
Claus, William H., A. Rée, and L. Marchlewski, Manchester, England. Black sulfur dye	639,806	Dec. 26	3002	------	89	2511
Claussen, Edward E. (See Harriman, Frank H., assignor.)						
Claussen, Edward E., Hartford, Conn. Manufacture of punches and dies	623,595	Apr. 25	2582	591	87	553
Claussen, Edward E., Hartford, Conn. Paper-bag machine	629,888	Aug. 1	255	57, 58	88	770
Claussen, Edward E., Hartford, Conn. Paper-bag machine	634,081	Oct. 3	165	42, 43	89	37
Claussen, Edward E., Hartford, Conn. Paper-bag machine	636,760	Nov. 14	1015	217, 218, 484	89	1154
Claussen, Edward E., and G. Mortson, Hartford, Conn. Paper-bag machine	635,090	Oct. 17	2055	485, 486	89	443
Claussen, Edward E., Hartford, Conn., and H. Elsas, New York, N. Y.; said Claussen assignor to said Elsas. Bag-machine	623,983	May 2	50	11, 12	87	711

Alphabetical list of patentees—Continued.

Name, residence, and invention.	No.	Date.	Monthly volume.		Official Gazette.	
			Spec.	Dr'g.	Vol.	Page.
Claviez, Alfred, assignor to Kunstweberei Claviez & Company, Gesellschaft mit Beschränkter Haftung, Leipsic, Germany. Apparatus for operating change mechanism of looms	631,560	Aug. 22	3413	771, 772	88	1447
Claviez, Alfred, assignor to Kunstweberei Claviez & Company, Gesellschaft mit Beschränkter Haftung, Leipsic, Germany. Movable pile-guide for plush-looms	631,561	Aug. 22	3416	772	88	1447
Claviez, Emil, Chemnitz, Germany. Loom	619,248	Feb. 7	850	186	86	979
Claviez, Emil, Leipsic, Germany. Shuttle-changing mechanism for looms	633,952	Sept. 26	3253	758, 759	88	2338
Clawson, Clement C., Newark, N. J. Coin-controlled air-pump-operating mechanism	619,279	Feb. 14	915	207, 208	86	1007
Clawson, Clement C., Newark, N. J. Mechanical motor	635,425	Oct. 24	2727	625, 626	89	587
Clay, Edwin, and J. F. Gibb, Sowerby Bridge, England. Bearing	626,142	May 30	4079	930	87	1566
Clay, Harry C. (See Reeves, Kailor, and Clay.)						
Clay, Harry C., assignor to Reeves & Company, Columbus, Ind. Straw-burning furnace	626,669	June 13	814	186	87	1791
Clay, Harry C., assignor to Reeves & Company, Columbus, Ind. Traction-wheel	633,282	Sept. 19	2044	480	88	2136
Clay, Harry C., and M. T. Reeves, assignors to Reeves & Co., Columbus, Ind. Smoke-stack and spark-arrester	623,134	Apr. 18	1735	401	87	366
Clay, William R., Bolton, England. Incandescent gas-burner	617,459	Jan. 10	1147	261, 262	86	241
Clay, William R., and B. Walmsley, Bolton, England. Support for incandescent gas-burners	617,460	Jan. 10	1149	262	86	242
Clayton, Charles E., Jr., Philadelphia, Pa. Bung	628,195	July 4	438	104	88	88
Clayton, Edward S., Cornersville, Tenn. Measuring and registering device	630,659	Aug. 8	1780	402	88	1082
Clayton, Thomas A., New Orleans, La. Method of and apparatus for fumigating and extinguishing fires in closed compartments	633,807	Sept. 26	3007	699	88	2338
Cleal, Joseph P., assignor to National Cash Register Company, Dayton, Ohio. Cash-register	622,445	Apr. 4	440	103	87	82
Cleary, Edward. (See Neuberger and Cleary.)						
Cleary, Michael. (See Barrett, Patrick M., assignor.)						
Cleasby, William H., Hartford, Conn., assignor to J. B. Chapman and T. J. Rider, Springfield, Mass. Cash-register	617,718	Jan. 17	1629	366	86	356
Cleave, Charles, assignor of one-half to W. J. Kirkpatrick, Farmington, Iowa. Rotary engine	620,279	Feb. 28	2703	620	86	1391
Cleavenger, James, Waynesburg, Pa. Axle-lubricator	628,156	July 4	373	88	88	76
Clemens, Gustav, Barmen, Germany. Miter-sawing apparatus	620,641	Mar. 7	177	37	86	1536
Clemens, Gustav, Barmen, Germany. Mitering-machine	629,425	July 25	2738	636, 637	88	590
Clement, Alvah W., Hopedale, Mass., assignor to Draper Company, Hopedale, Mass., and Portland, Me. Filling-supplying mechanism for looms	627,803	June 27	2960	647	87	2248
Clement, George B., Macon, Miss. Alveoli-amputating forceps	617,955	Jan. 17	2092	469	86	448
Clement, John, Baraboo, Wis. Lock	632,959	Sept. 12	1417	327, 328	88	2001
Clerc, Louis, Paris, France. Preserving milk	626,486	June 6	495	------	87	1709
Clerc, Peter F., San Francisco, Cal. Puffing-iron	624,455	May 9	935	209	87	904
Clerkin, William, and G. Maag, Akron, Ohio. Furnace case-ring	637,548	Nov. 21	2547	551	89	1468
Cless, George A., assignor of one-half to F. Biegus, Chicago, Ill. Liquid-cooler	630,660	Aug. 8	1781	402	88	1082
Cleveland, Carr W. and R. L., Devils Lake, N. D. Calculating-machine	638,097	Nov. 28	3948	830	89	1804
Cleveland, Frank P., *et al.* (See Shaw, Henry W., assignor.)						
Cleveland, George E., Freedom, Pa., assignor, by mesne assignments of one-half to M. Over, Muncie, Ind. Glass-pressing apparatus	628,157	July 4	375	88, 89	88	76
Cleveland, George W., trustee. (See Raab and Grossman, assignors.)						
Cleveland Machine Screw Company. (See Brophy, John P., assignor.)						
Cleveland Machine Screw Company. (See Clyne, James B., assignor.)						
Cleveland Machine Screw Company. (See Sperry, Elmer A., assignor.)						
Cleveland Pneumatic Tool Company. (See Smith and Johnson, assignors.)						
Cleveland, Rienzi L. (See Cleveland, Carr W. and R. L.)						
Cleveland, Rienzi L., Devil's Lake, N. D. Tension device	618,003	Jan. 17	2170	484	86	461
Cleveland, Rienzi L., Devil's Lake, N. D. Rotary lumber-measure	638,098	Nov. 28	3951	830, 831	89	1804
Cleveland Target Company. (See Jenkins, Arthur M., assignor.)						
Clevenstine, John B. M., Bridgeton, N. J. Collar-protector	639,213	Dec. 19	1884	434	89	2266
Click, John W., assignor of one-half to J. E. Sangor, Bridgewater, Va. Churn-dasher	617,461	Jan. 10	1151	263	86	242
Click, John W. and J. S., Bridgewater, Va. Baling-press	627,804	June 27	2962	647, 648	87	2249
Click, Joseph S. (See Click, John W. and J. S.)						
Clicquennoi, Jacob. (See Dahlberg, Clicquennoi, and Uhlin.)						
Cliff, Edward, Newark, N. J. Hose-reel	618,494	Jan. 31	3131	692, 693	86	672
Cliff, Edward, Newark, N. J. Passenger-car truck	625,745	May 30	3243	736, 737	87	1410
Cliff, Edward, Newark, N. J. Side bearing for car-trucks	628,526	July 11	1090	254	88	230
Cliff, Edward, Newark, N. J. Door check and closer	629,494	July 25	2874	668	88	615
Cliff, Edward, Newark, N. J. Door check and closer	633,682	Sept. 26	2804	653	88	2296
Cliff, Edward, Newark, N. J., assignor to Cliff & Guibert Company, New York, N. Y. Hose-nozzle	627,073	June 13	1589	348	87	1940
Cliff, George H. (See Cliff and Wardlaw.)						
Cliff & Guibert Company. (See Cliff, Edward, assignor.)						
Cliff, John H. and G. H., and T. D. Wardlaw, assignors to J. B. Hamilton, Dundas, Canada. Acetylene-gas generator	636,490	Nov. 7	446	99	89	1011
Clifford, Charles C., Allentown, Pa. Adding-machine	627,571	June 27	2530	556, 557, 558	87	2163
Clifford, Hersey A., San Francisco, Cal. Voting-machine	620,699	Mar. 7	295	59, 60	86	1559
Clift, Edmund E., assignor to J. F. Pole, Philadelphia, Pa. Insulated joint for electric fixtures	626,143	May 30	4079	931	87	1566
Climax Road Machine Company. (See McAlpine, Lemuel B., assignor.)						
Climer, Laura A., Chicago, Ill. Door-hanger	633,808	Sept. 26	3008	699	88	2338
Clinch, Charles E., *et al.* (See Froberg, Johan R., assignor.)						
Cline, George J., Milwaukee, Wis. Binder	629,889	Aug. 1	260	58	88	771
Cline, James W. R. (See Abbott, Elmer D., assignor.)						
Cline, Oren R., Eldorado, Kans., assignor to L. Sands, Cleveland, Ohio. Switch-handle for telephone-calls	619,034	Feb. 7	452	95	86	898
Cline, Orin W. (See Hunt and Cline.)						
Clink, David K., *et al.* (See Freed, Henry F., assignor.)						
Clinton, John H., Andover, Mass. Fire-escape	632,893	Sept. 12	1315	301	88	1930

Alphabetical list of patentees—Continued.

Name, residence, and invention.	No.	Date.	Monthly volume. Spec.	Monthly volume. Dr'g.	Official Gazette. Vol.	Official Gazette. Page.
Clinton Wire Cloth Company. (See Phillips, David E., assignor.)						
Clipfell, Carroll D., Redwood Falls, Minn. Automatic swinging stacker	620,016	Feb. 21	2243	509	86	1288
Clipper Plow Company. (See Rife, Louis P., assignor.)						
Clokey, William J. (See Johnston and Clokey.)						
Cloos Electrical Engineering Company. (See Cloos, Jacob, assignor.)						
Cloos, Jacob, assignor to Cloos Electrical Engineering Company, Milwaukee, Wis. Switching apparatus	623,118	Apr. 11	1706	394	87	345
Cloos, Jacob, assignor to Cloos Electrical Engineering Company, Milwaukee, Wis. Switching apparatus	623,119	Apr. 11	1707	394	87	345
Cloos, Jacob, assignor to Cloos Electrical Engineering Company, Milwaukee, Wis. Switching apparatus and method of counteracting arcs	623,120	Apr. 11	1709	394, 395	87	346
Clotworthy, C. Baker, *et al.* (See Mahan, John H., assignor.)						
Cloud, John W., Chicago, Ill. Car-truck	625,925	May 30	3598	817, 818	87	1478
Cloud, Joseph, and F. M. Osborne, Bransford, Tex. Railway-switch	618,055	Jan. 24	2275	508	86	497
Cloud, Wallace, Marshfield, Mo. Flood-gate	634,442	Oct. 10	894	215	89	196
Cloudman, Charles L., North Adams, Mass. Power dredging-machine	618,332	Jan. 24	2807	623	86	596
Clough, Henry H. (See Buttler and Clough.)						
Clough, John H., Corry, Pa., assignor of one-half to W. H. Davis, Eaton, Ind. Clothes-rack	633,987	Oct. 3	11	3	89	5
Clouse, Joseph N., St. Louis, Mo., assignor of three-sixteenths to H. R. Wade, N. I. Bowman, and E. D. Cray, Toledo, Ohio. Street letter-box	633,105	Sept. 12	1703	401	88	2057
Clouse, Joseph N., St. Louis, Mo., assignor of seven-eighths to H. R. Wade, D. W. Bowman, Toledo, J. W. and H. E. Bowman, Tippecanoe City, Ohio. Letter-box register	635,426	Oct. 24	2731	626	89	588
Clouse, William L., assignor to National Machinery Company, Tiffin, Ohio. Screw-threading machine	619,673	Feb. 14	1594	364, 365	86	1139
Clouser, Samuel F., New York, N. Y. Driving mechanism	618,642	Jan. 31	3388	754	86	721
Clouser, Samuel F., New York, N. Y. Dumping-scow	630,593	Aug. 8	1664	373	88	1061
Clousnitzer, Ernest A., Colorado, Tex. Steam-boiler feed-water system	631,735	Aug. 22	3727	837	88	1507
Clow, Esic Z. (See Carrier and Clow.)						
Clow, James C., *et al* (See Clark, Frank R., assignor.)						
Clowe, Edward T., Woodland, Cal. Vegetable-cutter	628,763	July 11	1542	356	88	321
Clowe, Edward T., Woodland, Cal. Bolt-holder	634,392	Oct. 3	797	192	89	158
Clower, Edwin S., Philadelphia, Pa. Water filter, heater, and cooler	630,327	Aug. 8	1121	245	88	958
Clowes, George H. (See Gilbert, William M., assignor.)						
Clowes, George H. (See White, Frederick L., assignor.)						
Clowes, George H. (See White and Gilbert, assignors.)						
Clowes, George H. (See White and Goeltz, assignors.)						
Clowry, William H., Chicago, Ill. Locomotive-window	632,241	Sept. 5	22	6	88	1713
Clubb, George M., Mullan, Idaho. Wedge-cutting machine	624,753	May 9	1463	331	87	1008
Cluett, Robert, Troy, N. Y. Shirt-bosom retainer	625,718	May 23	3178	721, 722	87	1380
Clugston, William D., assignor of one-fourth to T. Sterling, Wilmington, Del. Expanding tool-holder	627,098	June 20	1642	359	87	1970
Clugston, William D., assignor of one-fourth to T. Sterling, Wilmington, Del. Cutter-head for planers	627,099	June 20	1644	359, 360	87	1971
Clum, George W., Columbus, Ohio. Hinge	633,075	Sept. 12	1609	374	88	2039
Clute, Richard C., New York, N. Y. Tumbler-washer	622,446	Apr. 4	443	103	87	82
Clyborne, Louis H., Mound City, S. D. Wire-tightener	633,425	Sept. 19	2324	547	88	2190
Clyde, John and R. T., Marion Center, Pa. Wrench	625,145	May 16	2177	494	87	1161
Clyde, Robert T. (See Clyde, John and R. T.)						
Clymer, Robert S. (See Johnston, William G., assignor.)						
Clyne, James B., assignor to Cleveland Machine Screw Company, Cleveland, Ohio. Automatic lathe	618,951	Feb. 7	280	60, 61	86	865
Coady, Francis R. (See Coady, John J., assignor.)						
Coady, John J., assignor to F. R. Coady, New York, N. Y. Water-tight ventilating-ceiling	627,719	June 27	2813	616	87	2219
Coale, William, Warren, Ohio. Wall-plaster	635,906	Oct. 31	3809		89	811
Coan, John, Kansas City, Mo. Pneumatic-tire fender	639,846	Dec. 26	3073	706	89	2524
Coates, Franklin E., Montpelier, Cal. Rate cabinet and indexer	626,805	June 13	1079	243	87	1841
Coates, Gilbert P. (See Daniels, Philo E., assignor.)						
Coats, Benjamin H., and C. L. Sponenburgh, Detroit, Mich. Horseshoe	632,960	Sept. 12	1420	328	88	2002
Cobb, Alphonso H., Asheville, N. C. Hook-and-eye fastening	636,761	Nov. 14	1021	219	89	1155
Cobb, Alton E., and C. J. Dyer, Phœnix, Ariz. Ter. Bottle-washer	622,883	Apr. 11	1269	293	87	259
Cobb, Frank M., Cedarville, N. J. Crib attachment	620,069	Feb. 21	2331	530	86	1305
Cobb, Lyman H., South Portland, Me. Handcuff	623,984	May 2	54	12	87	712
Cobb, Lyman H., South Portland, Me. Breakdown firearm	629,770	Aug. 1	17	5	88	724
Cobb, Oscar, Chicago, Ill. Storm-door	617,308	Jan. 3	844	197	86	166
Cobb, Oscar, Chicago, Ill. Storm-door	617,309	Jan. 3	845	197	86	167
Cobb, Oscar, Chicago, Ill. Storm-door	619,674	Feb. 14	1595	365	86	1139
Cobb, Wilbert H. (See Lindenberger and Teal, assignors.)						
Coble, Claudius D. (See Coble, Roddy C., assignor.)						
Coble, Roddy C., assignor to C. D. Coble, Marion, Kans. Stacking-machine	621,630	Mar. 21	2005	447, 448	86	1914
Cochran Company. (See Wilkinson, Abraham, assignor.)						
Cochran, Heywood, Johnstown, Pa. Stop-valve	617,437	Jan. 10	1117	255	86	236
Cochran, Walter J., assignor to D. J. Bissell, Le Roy, N. Y. Electric-arc lamp	638,703	Dec. 12	987	220	89	2078
Cochran, William F., Osborne, Kans. Harrow	635,746	Oct. 31	3316	766	89	714
Cochrane, Lewis, and F. Thielemann, New York, N. Y. Window-cleaner	628,764	July 11	1543	357	88	321
Cochrun, Samuel H., Westerville, Ohio. Brush-holder	619,941	Feb. 21	2111	478	86	1264
Cock, La Fayette I. (See Given, Lena G., assignor.)						
Cocker, John, assignor of two-thirds to J. Crossley & Sons, Limited, and M. G. Dobson, Halifax, England. Heddle for looms	632,834	Sept. 12	1194	272	88	1960
Cocker, Thomas W., Paterson, N. J. Spindle	635,660	Oct. 24	3141	724	89	667
Cockle, Edwin A. (See Hewitt, Cockle, and Matthews.)						
Code, George, and H. Knudsen, Boston, Mass., assignors to Liquid Air Power and Automobile Company, of West Virginia. Adjustable pulley-gear	633,426	Sept. 19	2325	548	88	2190
Cody, Elizabeth T. (See Mooney, Thomas J., assignor.)						
Cody, Miles S., Washington, D. C. Vending apparatus	630,661	Aug. 8	1783	402, 403	88	1082
Cody, Miles S., Washington, D. C. Vending apparatus	632,485	Sept. 5	499	114	88	1805
Cody, Robert D., Chicago, Ill., assignor to L. T. Lawton, Meriden, Conn. Hydrocarbon-gas burner	632,894	Sept. 12	1316	301	88	1981
Coe Brass Manufacturing Company. (See Brooker, Charles F., assignor.)						
Coe Brass Manufacturing Company. (See Wood, William A., assignor.)						
Coe, Charles E., assignor to C. H. Sawyer, Jr., St. Louis, Mo. Singletree-hook	633,230	Sept. 19	1956	459	88	2119

Alphabetical list of patentees—Continued.

Name, residence, and invention.	No.	Date.	Monthly volume.		Official Gazette.	
			Spec.	Dr'g.	Vol.	Page.
Coe, Walter H., Providence, R. I. Device for applying metallic leaf	627,052	June 13	1554	340	87	1934
Coe, Walter S., New York, N. Y., assignor to Mergenthaler Linotype Company, of New York. Linotype-machine	619,392	Feb. 14	1104	249	86	1045
Coe, Walter S., New York, N. Y., assignor to Mergenthaler Linotype Company, of New York. Linotype-machine	619,393	Feb. 14	1106	250	86	1045
Coes, Frederic L., assignor to Coes Wrench Company, Worcester, Mass. Wrench	631,280	Aug. 22	2889	653	88	1342
Coes, John H., assignor to Coes Wrench Company, Worcester, Mass. Screw-wrench	618,026	Jan. 17	2215	494	86	470
Coes, John H., assignor to Coes Wrench Company, Worcester, Mass. Wrench	638,956	Dec. 12	1422	325	89	2164
Coes, John H., assignor to Coes Wrench Company, Worcester, Mass. Wrench	638,957	Dec. 12	1423	325	89	2164
Coes, John H., assignor to Coes Wrench Company, Worcester, Mass. Wrench	638,958	Dec. 12	1425	325	89	2165
Coes Wrench Company. (See Coes, Frederic L., assignor.)						
Coes Wrench Company. (See Coes, John H., assignor.)						
Coes Wrench Company. (See Searle, Frederick, assignor.)						
Coffee, Russell A., assignor to Universal Stripping Machine Company, Richmond, Va. Tobacco-stemming machine	622,995	Apr. 11	1455	336	87	297
Coffenberry, Nathan L., Lowell, Ind. Railway-switch	618,643	Jan. 31	3389	754	86	721
Coffin, Arthur W., San Francisco, Cal. Seal-lock	617,477	Jan. 10	1178	269	86	249
Coffin, Arthur W., San Francisco, Cal. Seal-lock	619,140	Feb. 7	655	141	86	940
Coffin, David N. B., Newton, Mass. Faucet-filter	621,766	Mar. 21	2278	513	86	1968
Coffin, Thomas A., New York, N. Y. Hoisting apparatus	625,643	May 23	3056	695, 696	87	1357
Coffin's Box and Lumber Company. (See Schaefer, William C., assignor.)						
Coffman, James H., Columbus, Ohio, assignor to Wisconsin Chair Company, Port Washington, Wis. Chair-seat	623,985	May 2	56	12	87	712
Coffman, Samuel M., Braymer, assignor of one-half to J. H. Cook, Carthage, Mo. Steam-engine reversing-valve	618,839	Feb. 7	37	7,8	86	811
Cohen, Alfred J. (See Ensign, Fred W., assignor.)						
Cohen, Andrew J., Philadelphia, Pa. Metallic roofing-plate	622,417	Apr. 4	388	89	87	72
Cohen, Charles, New York, N. Y. Rolling door for refrigerators or the like	636,491	Nov. 7	449	99	89	1012
Cohen, Joshua L., New York, N. Y. Flash-lamp	636,492	Nov. 7	451	99, 100	89	1012
Cohen, Stanley A., assignor to New York Consolidated Card Company, New York, N. Y. Chip-rack	617,478	Jan. 10	1180	269	86	249
Cohn, Barnet, New York, N. Y. Display-card	627,392	June 20	2202	484	87	2082
Cohn, Georg, Breslau, Germany. Hinge-joint for flat articles	628,239	July 4	519	125	88	103
Cohn, Sigmund, assignor to Daylight Incandescent Gas Lamp Company, New York, N. Y. Incandescent mantle and making same	620,017	Feb. 21	2245	509	86	1289
Cohoon, Steward L. (See Cook and Cohoon.)						
Colbassani, Joseph, New York, N. Y. Non-refillable bottle	637,370	Nov. 21	2220	477	89	1404
Colburn, Adoniram J., Greenville, Mich. Potato-planter	630,662	Aug. 8	1787	403	88	1083
Colburn, Arthur R., Washington, D. C. Balance-escapement	617,852	Jan. 17	1896	423	86	409
Colburn, Hebden. (See Hoyle and Colburn.)						
Colburn, Henry J., assignor to Toledo Glass Company, Toledo, Ohio. Automatic blast-regulator for glass-blowing machines	632,486	Sept. 5	503	115	88	1806
Colburn, Irving W., Toledo, Ohio. Glass-working machine	620,567	Mar. 7	16	4	86	1505
Colburn, Irving W., Toledo, Ohio. Glass-working machine	620,568	Mar. 7	22	4,5	86	1506
Colburn, Irving W., Toledo, Ohio. Glass-working machine	620,642	Mar. 7	178	37, 38, 39	86	1536
Colburn, Irving W., Toledo, Ohio. Glass-working machine	621,794	Mar. 28	2330	523, 524	86	1993
Colburn, Irving W., Toledo, Ohio. Glass-working machine	621,795	Mar. 28	2336	524, 525	86	1995
Colburn, Irving W., Toledo, Ohio. Glass-working machine	626,859	June 13	1197	265, 266	87	1864
Colby, Caleb K., New York, N. Y. Watch-regulator	627,053	June 13	1555	341	87	1934
Colby, Caleb K., New York, N. Y. Watch-regulator	627,817	June 27	2988	653	87	2253
Colby & Co. (See Hawes, Herbert E., assignor.)						
Colby, Frank C., Houston, Tex. Desiccated-meat compound and making same	621,227	Mar. 14	1290	------	86	1765
Colby, Harry W., Chicago, Ill. Apparatus for racking beer	623,986	May 2	56	13	87	712
Colby, Walter L., Auburndale, Mass. Type-writer	621,325	Mar. 21	1475	327	86	1813
Colclazer, Sarah E., assignor to Hat Holder and Novelty Company, Philadelphia, Pa. Hat-holder for seats, &c	623,945	Apr. 25	3234	745	87	676
Colclazer, William B. and P. C. Munger, assignors of one-third to E. Horn, Evansville, Ind. Station-indicator	618,600	Jan. 31	3317	738	86	708
Colcord, J. B., *et al.* (See Brown, Edmond H., assignor.)						
Colditz, John. (See Reich, Philip, assignor.)						
Coldwell, Joseph, and C. G. Gildard, Fall River, Mass. Warp stop-motion for looms	637,234	Nov. 21	1959	418	89	1352
Coldwell, Joseph, and C. G. Gildard, Fall River, Mass. Electrical stop-motion for looms	637,235	Nov. 21	1964	418, 419	89	1353
Coldwell, Thomas, Newburg, N. Y. Lawn-mower	617,671	Jan. 10	1531	348	86	318
Cole, A. D. (See Cox, Orlando P., assignor.)						
Cole, A. D. (See Butler, William H., assignor.)						
Cole, A. D. (See Hill, James A., assignor.)						
Cole, Charles E., Winfield, Kans. Station-indicator	618,813	Jan. 31	3696	827	86	782
Cole, Charles H., New York, N. Y. Climber	620,741	Mar. 7	377	77	86	1575
Cole, Daniel W., assignor of one-half to W. T. and F. Hacker, Kansas City, Mo. Hydrocarbon cook-stove	621,959	Mar. 28	2652	597	86	2054
Cole, Edward S., Chicago, Ill. Self-recording manometer	625,541	May 23	2880	655	87	1322
Cole, J. Edward, *et al.* (See Gaylord, John F., assignor.)						
Cole, John M., Cleveland, Ohio, assignor to J. J. Tower, New York, N. Y. Joiner's plane	620,226	Feb. 28	2616	595, 596	86	1373
Cole, Leander L., assignor to J. Heckman, Kingston, Ill. Thill-coupling	638,379	Dec. 5	372	78	89	1937
Cole, Orlando J., Arlington, Ky. Churn	636,636	Nov. 7	732	160	89	1069
Cole, Peter L., Washington, D. C. Ash-receiver for cigars	634,746	Oct. 10	1437	338	89	302
Cole, Samuel C., Mayfield, assignor of one-half to W. P. Alexander and S. E. Colley, Farmington, Ky. Machine for cultivating the ground and forming tobacco-hills	631,619	Aug. 22	3513	791	88	1467
Cole, William J., Evansville, Ind. Air-valve	635,661	Oct. 24	3142	724	89	667
Cole, William R., Detroit, Mich. Annunciator for telephone-exchanges	619,942	Feb. 21	2113	478	86	1264
Cole, Wilson T., assignor of one-half to R. A. McWilliams, Minneapolis, Minn. Addressing-machine	620,280	Feb. 28	2705	620, 621	86	1391
Coleman, Aaron, New York, N. Y. Suspenders	637,924	Nov. 28	3609	756	89	1740
Coleman, Abner, Taunton, Mass., assignor to Gamewell Fire-Alarm Telegraph Company, New York, N. Y. Testing apparatus for electric signal-circuits	624,300	May 2	659	144	87	826

Alphabetical list of patentees—Continued.

Name, residence, and invention.	No.	Date.	Monthly volume. Spec.	Monthly volume. Dr'g.	Official Gazette. Vol.	Official Gazette. Page.
Coleman, Albert. (See Grinley and Coleman.)						
Coleman, Christopher H., *et al.* (See Kennedy, Henry A., assignor.)						
Coleman, Clyde, assignor, by mesne assignments, of two-thirds to Bankers Electric Protective Company, Chicago, Ill. Electrical burglar-alarm	626,670	June 13	815	186, 187	87	1791
Coleman, Clyde, assignor, by mesne assignments, of two-thirds to Bankers Electric Protective Company, Chicago, Ill. Electrical burglar-alarm system	627,054	June 13	1557	341	87	1934
Coleman, Clyde, assignor, by mesne assignments, of two-thirds to Bankers Electric Protective Company, Chicago, Ill. Electric burglar-alarm	632,512	Sept. 5	546	126, 127	88	1815
Coleman, Clyde, assignor, by mesne assignments, of two-thirds to Bankers Electric Protective Company, Chicago, Ill. Electrical burglar-alarm system	632,513	Sept. 5	554	127, 128	88	1817
Coleman, Clyde, assignor, by mesne assignments, of two-thirds to Bankers Electric Protective Company, Chicago, Ill. Electric cable	632,514	Sept. 5	557	128	88	1817
Coleman, Clyde, Chicago, Ill., assignor to Chicago Development Company, of New Jersey. Explosive projectile	639,214	Dec. 19	1885	435	89	2266
Coleman, George D., Bridgewater, Mass. Antifouling coating for metal structures	629,426	July 25	2739	637	88	590
Coleman, George D., Bridgewater, Mass. Antifouling coating for wood	629,427	July 25	2740	637	88	590
Coleman, George D., Bridgewater, Mass. Apparatus for applying antifouling coatings to structures	631,154	Aug. 15	2657	601	88	1278
Coleman, George E., *et al.* (See Elliott, Lorenzo D., assignor.)						
Coleman, George W., Cincinnati, Ohio. Acetylene-gas generator	622,447	Apr. 4	443	103	87	82
Coleman, Hamilton D. (See Graner, John, assignor.)						
Coleman, Horace H., and H. E. Ritchey, St. Louis, Mo. Advertising hitching-post	637,322	Nov. 21	2126	458	89	1385
Coleman, John P., Edgewood Park, assignor to Union Switch and Signal Company, Swissvale, Pa. Electric signaling	617,853	Jan. 17	1899	424	86	410
Coleman, John P., Edgewook Park, assignor to Union Switch and Signal Company, Swissvale, Pa. Relay	617,854	Jan. 17	1902	424, 425	86	410
Coleman, John P., Edgewood Park, assignor to Union Switch and Signal Company, Swissvale, Pa. Relay	625,146	May 16	2179	495	87	1161
Coleman, John P., assignor of one-half to Union Switch and Signal Company, Swissvale, Pa. Switch mechanism	629,953	Aug. 1	422	91	88	805
Coleman, John T., Miccosukee, assignor of one-fourth to L. E. Voyles, Deland, Fla. Churn-power	639,712	Dec. 26	2821	651	89	2474
Coleman, Prescott H., *et al.* (See Kennedy, Henry A., assignor.)						
Coleman, Robert F., Philadelphia, Pa. Plaiting-machine	631,537	Aug. 22	3357	764	88	1436
Coleman, Thomas, Jr., Rochester, and W. H. Ehmsen, Wilkinsburg, Pa. Machine for pressing glass	618,560	Jan. 31	3251	722	86	694
Coleman, Thomas A., Texarkana, Tex. Lumber-stacker	625,490	May 23	2793	635, 636, 637	87	1305
Coleman, Thomas A., Millville, Ark. Chain conveyer	627,482	June 27	2366	521	87	2130
Coleman, Thomas S., Brandenburg, Ky. Windlass water-elevator	639,149	Dec. 12	1748	404	89	2227
Coles, George A. (See Alsop, Charles R., assignor.)						
Coles, Thomas L. (See Munsie, James F., assignor.)						
Coles, William E., Attleborough, Mass., assignor to Butcher Signal and Alarm Company, Denver, Colo. Alarm mechanism	629,771	Aug. 1	19	5	88	775
Colkitt, Charles H., and J. W. Pentz, Dubois, Pa. Device for opening jars	635,662	Oct. 24	3143	724	89	668
Colladay, Joseph O. (See Herschel, William D., assignor.)						
Collantier, Gustave F., Paris, France. Coating material for decorating and building purposes	638,497	Dec. 5	599	------	89	1980
Collar, Adoniram J., Yreka, Cal. Window fly-escape	619,865	Feb. 21	1983	451	86	1240
Coller, Charles W., and J. S. Naery, Lafayette, Ind. Platform for railway-cars	627,905	June 27	3147	688, 689	87	2287
Colles, George W. (See Des Anges, Henry L., assignor.)						
Collett, Samuel D., New York, N. Y., assignor to Elevator Supply and Repair Company, Chicago, Ill. Electric signaling apparatus for elevators	634,229	Oct. 3	474	120, 121	89	97
Collette, Auguste, and A. Boidin, Seclin, France. Manufacture of alcohol	621,796	Mar. 28	2342	526	86	1996
Collette, John, Hudson, Mass. Hose-coupling	628,765	July 11	1544	357	88	321
Colley, Samuel E., *et al.* (See Cole, Samuel C., assignor.)						
Collier, Arthur T., St. Albans, England. Driving-gear for bicycles, &c	625,644	May 23	3058	696	87	1357
Collier, Arthur T., St. Albans, England. Means for securing pneumatic tires to wheel-rims	637,087	Nov. 14	1648	357	89	1278
Collier, Barron G. (See Newby, Albert S., assignor.)						
Collier, Thomas, Rienzi, Tex. Planter attachment for cultivators	635,299	Oct. 24	2444	568, 569	89	532
Collier, Wallace. (See Heffner, Allen, and Collier.)						
Colligan, William, and M. J. Daley, Waterbury, Conn. Shaft-tug	619,943	Feb. 21	2114	479	86	1264
Collinge, Robert. (See Leach, Joseph, assignor.)						
Collins, Chester, Winfield, Kans. Clothes-pounder	638,214	Dec. 5	12	4	89	1869
Collins, Edward W., Coalville, Iowa. Rotary engine	626,595	June 6	675	155, 156	87	1745
Collins, Frank H., Everett, Mass. Magneto ear-phone	622,328	Apr. 4	230	52	87	44
Collins, George M., assignor of one-half to J. E. Keener, Davenport, Wash. Bicycle-brake	636,494	Nov. 7	454	101	89	1012
Collins, Harry R., Sayre, Pa. Vehicle-wheel	625,645	May 23	3060	697	87	1357
Collins, Herman B., Fulton, N. Y. Driving mechanism	622,207	Apr. 4	15	3,4	87	5
Collins, Jeremiah F., Brockton, Mass. Split follower	626,366	June 6	296	67	87	1671
Collins, John T., Kokomo, Ind. Wire-fence-spacing device	632,987	Sept. 12	1462	340	88	2010
Collins, John W. B., assignor of one-half to G. P. Crutchfield, Greensborough, N. C. Barrel-holder	627,253	June 20	1905	420	87	2023
Collins, Joseph A., West Haven, Conn. Combined match-safe and burned-match receiver	637,236	Nov. 21	1966	419	89	1353
Collins, Joseph W., Pawtucket, R. I. Spindle-bearing	629,954	Aug. 1	423	92	88	805
Collins, Marion N., Ackerman, Miss. Vehicle-brake	633,231	Sept. 19	1957	459	88	2119
Collins, Norman. (See Fauvel and Collins.)						
Collins, O. R. (See Chickering, Frank W., assignor.)						
Collins, Otis, Lecompte, La. Cotton-seed roaster	618,644	Jan. 31	3391	735	86	722
Collins Plow Company. (See Brown, John W., assignor.)						
Collins, Reuben G., Dollar Bay, Mich. Siphon	631,736	Aug. 22	3729	837	88	1508
Collins, Samuel, Philadelphia, Pa. Necktie-fastener	635,747	Oct. 31	3319	766	89	715
Collyer, Charles W., Lynn, Mass. Automobile watering-cart and fire-engine	638,864	Dec. 12	1256	284, 285	89	2130
Colsten, Charles, Jersey City, N. J. Stand for cleaning and repairing bicycles	625,746	May 30	3246	737	87	1411
Colteryahn, Charles and W. C., Pittsburg, Pa. Moving-harness	618,333	Jan. 24	2809	623	86	596
Colteryahn, William C. (See Colteryahn, Charles and W. C.)						
Colton, Andrew T., Lafayette, Ind. Vehicle-wheel	634,718	Oct. 10	1382	325	89	293
Colton, Arthur, Detroit, Mich. Tablet-making machine	639,919	Dec. 26	3195	734	89	2549

Alphabetical list of patentees—Continued.

Name, residence, and invention.	No.	Date.	Monthly volume. Spec.	Monthly volume. Dr'g.	Official Gazette. Vol.	Official Gazette. Page.
Colton, William, *et al.* (See Newman, Charles E., assignor.)						
Columbia and Electric Vehicle Company. (See Alden, Herbert W., assignor.)						
Columbia Brake and Supply Company. (See Price, William G., assignor.)						
Columbia Encaustic Tile Company. (See Crowe, George W., assignor.)						
Columbia Grey Iron Company. (See Brenner, Benjamin F., assignor.)						
Columbia Hydraulic and Engineering Company. (See Emerson, William R., assignor.)						
Columbia Machine Co. (See Buehler, John G., assignor.)						
Columbia Motor Manufacturing Company. (See Powell, John B., assignor.)						
Columbia Seal Lock Company. (See Brooks, Franklin W., assignor.)						
Columbus Face Brick Company. (See Meehan, David C., assignor.)						
Colville, David, Jr. (See Powell, Colville, Jardine, and Mackenzie.)						
Colville, William H. (See Cornelius, Aaron M., assignor.)						
Colvin, Edward F., Milton, Pa. Thill-coupling	622,604	Apr. 4	752	174	87	143
Colwell, William S., Chicago, Ill. Engine	617,807	Jan. 17	1818	406, 407	86	393
Colwell, William S., Chicago, Ill. Engine or motor	627,572	June 27	2539	558, 559	87	2164
Comar, John. (See Jensen and Comar.)						
Combest, Charles G., Pana, Ill. Hay-press	635,663	Oct. 24	3144	724, 725	89	668
Combination Wrench and Jack Company. (See Foote, James B., assignor.)						
Combs, Joe H. (See Haldeman, James S., assignor.)						
Comden, Thomas S. (See Madison, William, assignor.)						
Come, George F., Chatham Centre, N. Y. Railway-switch	619,280	Feb. 14	922	208	86	1008
Comeau, Stephen. (See Lane and Comeau.)						
Comer, Little B., Farmersville, Tex. Harness-buckle	626,220	June 6	12	3	87	1617
Comfort, Edward W., Chicago, Ill. Paper-trimming guide	632,915	Sept. 12	1349	311	88	1987
Comins, Charles S., Quincy, Mass. Step-ladder	621,468	Mar. 21	1722	382	86	1860
Comly, Minnie W., Quincy, Ill. Bust-girdle	634.429	Oct. 3	869	210	89	175
Comly, T. Elwood, Philadelphia, Pa. Tire-covering	627,483	June 27	2367	521	87	2131
Commercial Ozone Syndicate. (See Rosenblum and Yarnold, assignors.)						
Commercial Telegraph Company. (See McGann, George, assignor.)						
Commichau, Rudolf, Magdeburg-Sudenburg, Germany. Spiral conveyer	626,409	June 6	365	86	87	1684
Commichau, Rudolf, Magdeburg-Sudenburg, Germany. Manufacturing scythes or sickles	639,665	Dec. 19	2726	627	89	2438
Commin, Frederick J. (See Cameron and Commin.)						
Commin, Frederick J. (See Cameron, Commin, and Martin.)						
Common Sense Bolster Company. (See Thompson, Frank, assignor.)						
Common, Thomas W. (See Forbes, Ferry M., assignor.)						
Compagnie Brabo Société Anonyme. (See Haehnel, Frédéric, assignor.)						
Compagnie de Metallurgie Générale. (See Martin, Charles, assignor.)						
Compagnie-Générale des Nouvelles Inventions Charles Tellier. (See Tellier, Charles, assignor.)						
Composite Veneering Company. (See Caveneget, Eugene, assignor.)						
Compressed Paper Box Company. (See Godfrey, Jonathan, assignor.)						
Compton, Harmon, Lynnhaven, Va. Hoe	634,393	Oct. 3	798	193	89	158
Compton, Lawrence, and H. M. Houck, Baltimore, Md., assignors to Atlantic Manufacturing Company of Baltimore City, of Maryland. Puzzle	631,737	Aug. 22	3730	837	88	1508
Compton, Linn, Staples, Minn. Speed-indicator	622,605	Apr. 4	754	175	87	143
Compton, Melvin D., Newark, N. J. Automatic cycle-inflator	621,326	Mar. 21	1476	327, 328	86	1813
Compton, Melvin D., Newark, N. J. Acetylene-gas generator	633,684	Sept. 26	2809	654	88	2297
Compton, Melvin D., Newark, N. J., assignor to F. Fuller, trustee, New York, N. Y. Acetylene-lamp	633,683	Sept. 26	2807	663	88	2297
Computing Scale Company. (See Mellinger, Frank E., assignor.) (Reissue.)						
Computing Scale Company. (See Ozias, Albert N., assignor.)						
Comrie, Jennings, Milwaukee, Wis. Glove	634,443	Oct. 10	896	216	89	197
Comstock, Clark S., Bloomfield, N. J. Coat-hanger	623,234	Apr. 18	1920	441	87	403
Comstock, Edgar M., Ypsilanti, Mich. Sash-fastener	629,772	Aug. 1	20	6	88	725
Comstock, Francis M., assignor to J. B. Larimer, trustee, Topeka, Kans. Acetylene-gas generator	632,515	Sept. 5	558	128, 129	88	1818
Comstock, Francis M., assignor to J. B. Larimer, trustee, Topeka, Kans. Acetylene-gas generator	638,444	Dec. 5	491	100	89	1961
Conant, Charles B., Adrian, Mich. Sliding-bolt lock	630,594	Aug. 8	1665	373	88	1061
Conant, Frederick O. (See Smith, Frank W., assignor.)						
Conant, George P., assignor to C. E. Roleau, Chicago, Ill. Mold for casting solid type-wheels	636,378	Nov. 7	256	57	89	972
Conard, Bayard A. (See Butter and Marr, assignors.)						
Conard, Henry W., Wymore, Nebr. File	630,487	Aug. 8	1465	327	88	1022
Conatser, Andrew W., Compton, Cal. Tire	633,685	Sept. 26	2810	654	88	2298
Conatser, Andrew W., Los Angeles, Cal. Pruning-shears	639,525	Dec. 19	2460	568	89	2384
Conchar, James W., Dubuque, Iowa. Tool-bracket	624,908	May 16	1764	398	87	1084
Conchar, James W., Dubuque, Iowa. Pipe-register	624,909	May 16	1764	398	87	1084
Conchar, James W., Dubuque, Iowa. Combined anvil, vise, and drill	624,910	May 16	1765	398	87	1084
Conderman, Jay G., Rhinelander, Wis. Metallic barrel	624,911	May 16	1767	399	87	1084
Condict, George H., New York, N. Y. Contact for controllers	622,606	Apr. 4	755	175	87	144
Condict, George H., assignor to Electric Vehicle Company, New York, N. Y. Positioning apparatus for motor-vehicles	635,300	Oct. 24	2446	569	89	532
Condit, George F., assignor to M. Condit, T. Davis, and W. S. Wardell, Orange, N. J. Pipe-vise	618,840	Feb. 7	40	8	86	811
Condit, Harry H., Indianapolis, Ind. Combination undergarment	637,708	Nov. 21	3207	666	89	1638
Condit, Minnie, *et al.* (See Condit, George F., assignor.)						
Condon, Alvin T., and J. C. Ham, assignors to Condon Manufacturing Company, Belfast, Me. Rotary brush	639,666	Dec. 19	2727	627	89	2438
Condon, Henry F., De Kalb, Ill. Barrel-cart	638,215	Dec. 5	12	4	89	1869
Condon, Henry F., assignor to J. F. Glidden, De Kalb, Ill. Pipe-bending apparatus	620,227	Feb. 28	2620	596	86	1374
Condon, John, Philadelphia, Pa. Acetylene-gas-generating apparatus	617,563	Jan. 10	1344	302	86	281
Condon Manufacturing Company. (See Condon and Ham, assignors.)						
Condrey, Richard M., Amory, Miss. Show-case	634,640	Oct. 10	1231	293	89	262
Congdon & Carpenter Company. (See Rounds, George E., assignor.)						
Congdon, Peleg J., Providence, R. I. Lacing	632,699	Sept. 12	938	218	88	1906
Conger, Charles A., Oakland, Cal. Snap-hook	617,081	Jan. 3	424	103	86	82
Congour, Presley A., assignor of one-half to T. B. Beauchamp, Enloe, Tex. Adjustable table	632,804	Sept. 12	1136	262	88	1948
Conibear, Edward H., and S. W. Ray, Dallas, Tex. Acetylene-gas generator	622,839	Apr. 11	1183	275, 276	87	243

Alphabetical list of patentees—Continued.

Name, residence, and invention.	No.	Date.	Monthly volume.		Official Gazette.	
			Spec.	Drg.	Vol.	Page.
Conkey, Albert B., *et al.* (See Habermann, George J., assignor.)						
Conklin, William D., assignor of one-half to J. J. McKenzie, Rutherford, N. J. Calculator	633,989	Oct. 3	15	4	89	6
Conkling, Allen, Chicago, Ill. Mangle	624,180	May 2	433	89	87	783
Conkling, Allen, Chicago, Ill. Return-feed device	633,988	Oct. 3	12	3	89	5
Conlan, Bernard J., Pittston, Pa. Heating and ventilating pipe	618,841	Feb. 7	42	9	86	812
Conley, Andrew J., Luling, assignor of one-fourth to E. Malloch, Fentress, Tex. Hose-coupling	625,831	May 30	3420	776	87	1444
Conley, Eli. (See Warner, Isaac M., assignor.)						
Conley, Hiram E. (See Reynolds, Stephen, assignor.)						
Conley, Joseph, Mound City, Mo. Garbage-receptacle	621,601	Mar. 21	1958	438	86	1905
Conley, Owen J., New York, N. Y. Conveyer for unloading vessels	625,085	May 16	2065	464	87	1140
Conley, Owen J., New York, N. Y. Conveyer for unloading vessels	625,086	May 16	2067	464, 465, 466	87	1140
Conley, Owen J., New York, N. Y. Screen conveyer	636,762	Nov. 14	1023	219	89	1155
Conlin, Frederick. (See Moyer, Daniel, assignor.)						
Conly, Mahlon S., assignor of one-half to W. H. Willson, Los Angeles, Cal. Electromagnetic reciprocating engine	630,448	Aug. 8	1390	312	88	1008
Conn, Charles G., Elkhart, Ind. Graphophone	624,301	May 2	660	144	87	826
Conn, Joseph C., Ilion, N. Y. Cycle-chain cleaner	617,224	Jan. 3	687	159	86	134
Conn, Lewis, Baltimore, Md. Combination tent-frame and cot	627,100	June 20	1646	360	87	1971
Connecticut Web Company (See Neuberger and Cleary, assignors.)						
Connell, John, Rochester, N. Y. Machine for printing on boards	638,906	Dec. 12	1335	303, 304	89	2147
Connell, John W., Portsmouth, Va. Fast freight-tracer	620,742	Mar. 7	378	77, 78	86	1575
Connell, Mary B., Roselle, N. J. Laundry-basket	630,183	Aug. 1	847	182	88	890
Connell, William A., Atkinson, Ill. Stock-waterer	617,827	Jan. 17	1857	415	86	401
Connell, William R., Greenfield, Tenn. Safety-bridge for railway-cars	633,639	Sept. 26	2726	635	88	2281
Connelly-Critchlow Company. (See Connelly, John S., assignor.)						
Connelly, James W., Poplar Grove, Ky. Implement for applying stay-wires to wire fences	636,763	Nov. 14	1025	219	89	1156
Connelly, John, *et al.* (See Reese, William, assignor.)						
Connelly, John S., assignor to Connelly-Critchlow Company, Titusville, Pa. Gas-regulator	627,843	June 27	3033	662	87	2262
Connelly, Robert E. (See Connelly, William, assignor.)						
Connelly, Timothey D., Estes, Mo. Fire-escape	637,709	Nov. 21	3208	667	89	1639
Connelly, William, assignor to R. E. Connelly, Toledo, Ohio. Rod and cable coupling	626,527	June 6	564	130	87	1733
Conner, Charles A., Warsaw, N. Y., assignor to R. B. O'Neill, Marion, Ind. Dough-mixing machine	630,861	Aug. 15	2120	481	88	1174
Conner, Florence F., Cleveland, Ohio. Check-hook	627,818	June 27	2989	653	87	2254
Conner, Harrison W., Boston, Mass. Combined cooking-stove and heater	630,595	Aug. 8	1667	374	88	1061
Conner, Theodore M. and T. M., Kokomo, Ind Seal-feeding mechanism for bottling-machines	633,505	Sept. 19	2445	576, 577	88	2213
Conner, Thompson M. (See Conner, Theodore M. and T. M.)						
Conners, David H. (See Carlton and Conners.)						
Connett, Matthew F., assignor to C. C. Janin and J. H. Schiebert, San Antonio, Tex. Desk-ruler	628,072	July 4	209	47	88	42
Connolly, Charles H., Mount Ayr, Iowa. Seal-lock	626,650	June 6	776	177	87	1765
Connor, Charles C., Belfast, Ireland. Electrode	627,573	June 27	2543	559	87	2165
Connor, Charles T., P. J. Ziegler, and C. J. W. Breland, Allendale, S. C. Axle-oiler	633,076	Sept. 12	1610	375	88	2040
Connors, Maurice S., *et al.* (See Howell, Charles D., assignor.)						
Conover, Jacob D., Middletown, N. J. Garment-fastener	623,987	May 2	61	13	87	713
Conover, James F., Chicago, Ill. Piano-action	638,798	Dec. 12	1148	256, 257	89	2110
Conover, John, deceased; O. M. Walker, Raccoon, Ind., administrator. Pocket-knife	618,488	Jan. 31	3112	689	86	609
Conrad, Frank. (See Davis and Conrad.)						
Conrad, George W., Troy, Ohio. Coupling-plate for poles and doubletrees	616,900	Jan. 3	63	13	86	14
Conrad, Hugh V., North Tarrytown, assignor to Rand Drill Company, New York, N. Y. Rock-drill	624,181	May 2	435	90	87	783
Conrad, Hugh V., and R. L. Ambrose, North Tarrytown, assignors to Rand Drill Company, New York, N. Y. Rock-drill	635,301	Oct. 24	2448	569	89	532
Conrad, Jacob, assignor to himself and L. J. Deibel, Chicago, Ill. Bung	634,391	Oct. 3	799	193	89	158
Conrad, John, Watson, Mo. Wire-tongs	621,327	Mar. 21	1478	328	86	1814
Conrad, William H., Philadelphia, Pa. Circuit-breaker for controllers	632,516	Sept. 5	562	129	88	1818
Conrader, Rudolph, Erie, Pa. Engine-governor	636,764	Nov. 14	1026	220	89	1156
Conradis, Charles. (See Babcock, Charles P., assignor.)						
Conradson, Conrad M., Madison, Wis., assignor to American Turret Lathe Works Company, Cincinnati, Ohio. Turret-lathe	639,888	Dec. 26	3128	719, 720, 721	89	2534
Conroy, James, Brockton, Mass. Bobbin for sewing-machine shuttles	632,895	Sept. 12	1317	302	88	1981
Conroy, William A., Moree, and J. W. Manchee, Sydney, New South Wales; said Conroy assignor to said Manchee. Wire-fence dropper	636,719	Nov. 7	899	199	89	1106
Consoer, William, assignor of one-half to J. C. Borgwardt, Chicago, Ill. Upholstering-button	639,667	Dec. 19	2728	627	89	2438
Consolidated Car Fender Company. (See Hollingsworth, George H., assignor.)						
Consolidated Car-Heating Company. (See McElroy, James F., assignor.)						
Consolidated Car-Heating Company. (See Parker, Ralzemond A., assignor.)						
Consolidated Fastener Company. (See Holmes, George A., assignor.)						
Consolidated Machine Specialty Company. (See Hoffman, William D., assignor.)						
Consolidated Safety Pin Company. (See Bowen, Francis C., assignor.)						
Consolidated Safety Pin Company. (See Bryant, Charles A., assignor.)						
Construction and Maintenance Company. (See Moon, Warren, assignor.)						
Contant, Claude A., Fort Wayne, Ind. Slate-roof-fastening device	623,988	May 2	62	14	87	714
Conti, James F. T., assignor to Société Choconin et Cie., Paris, France. Automobile vehicle	629,064	July 18	2082	485	88	443
Continental Chemical Company. (See Ramage, Alexander S., assignor.)						
Continental Match Company. (See Thompson, William W., assignor.)						
Continuous Rail Joint Company of America. (See Charlton, Richard B., assignor.)						
Converse, Albert L., and J. T. Underwood, Springfield, Ill. Brick sanding and forming machine	628,903	July 11	1794	418	88	369
Converse, Eunice C. (See Converse, Newton B., assignor.)						
Converse, Maschil D., New York, N. Y. Monkey-wrench	623,946	Apr. 25	3235	745	87	677
Converse, Maschil D., New York, N. Y. Cork-extractor	624,457	May 9	935	209, 210	87	904
Converse, Maschil D., New York, N. Y. Rivet	625,491	May 23	2798	637	87	1306
Converse, Maschil D., assignor to Tower & Lyon, New York, N. Y. Monkey-wrench	618,245	Jan. 24	2658	588	86	567

Alphabetical list of patentees—Continued.

Name, residence, and invention.	No.	Date.	Monthly volume.		Official Gazette.	
			Spec.	Dr'g.	Vol.	Page.
Converse, Maschil D., assignor to J. J. Tower, New York, N. Y. Bench-plane	619,394	Feb. 14	1107	250	86	1046
Converse, Maschil D., assignor to J. J. Tower, New York, N. Y. Sliding ram for tools	638,704	Dec. 12	990	220	89	2079
Converse, Newton B., assignor to E. C. Converse, Fresno, Cal. Raisin-seeding machine	635,713	Oct. 24	3231	744 745	89	686
Convertible Billiard Table Company. (See Fox, Arthur J., assignor.)						
Conway, Benjamin F. (See Keyser, Benjamin F., assignor.)						
Conway, Jesse, assignor of one-half to M. A. McCormick, Baltimore, Md. Apparatus for tapping mains	627,074	June 13	1591	348	87	1940
Conway, John F. I., Portsmouth, Va. Laundry and kitchen table	621,033	Mar. 14	954	207 208	86	1698
Conway, Martha L., Boone, Iowa. Journal-box for axles	623,501	Apr. 18	2395	550	87	499
Conwell, La Fayette, assignor to A. McQuarrie, G. A. McCollum, and J. J. Schaefer, Chicago, Ill. Bicycle brake and clutch	619,721	Feb. 21	1704	390	86	1186
Conwell, Simon W., Leon, Iowa. School-desk	634,395	Oct. 3	800	193	89	159
Conzett, John, Ferndale, Cal. Stalk and weed puller	626,966	June 13	1404	309	87	1904
Cook, Adolphus H., Almira, Canada. Wire fence	618,842	Feb. 7	43	9	86	812
Cook, Adolphus H., Almira, Canada. Wire-fence machine	635,302	Oct. 24	2450	570	89	533
Cook, Albert J., assignor of three-eighths to T. McEwan, Jr., Jersey City, N. J. Electrical hair-brush	629,340	July 25	2579	598	88	556
Cook, Andrew, Glasgow, Scotland. Guard or shield for circular saws	640,095	Dec. 26	3513	806 807	89	2614
Cook, Charles R. (See Powers and Cook.)						
Cook, Charles W., assignor to G. M. Hallenbeck, Wallingford, Conn. Producing tableware from sheet-metal blanks	632,988	Sept. 12	1463	340 341	88	2010
Cook, Clifford A., Milford, Mass. Fastener for lacings	622,448	Apr. 4	445	104	87	83
Cook & Co., S. A. (See Bigelow, Don J., assignor.)						
Cook, Daniel. (See Fulton and Cook.)						
Cook, David S., Sellersburg, Ind. Bag or sack holder	632,175	Aug. 29	4540	1024	88	1676
Cook, Edgar H., New York, N. Y. Coin-actuated vending-machine	627,683	June 27	2748	602	87	2205
Cook, Edgar H., New York, N. Y. Vending-machine	627,684	June 27	2749	602 603	87	2206
Cook, Edgar H., New York, N. Y. Vending apparatus	627,685	June 27	2753	603 604	87	2206
Cook, Edmond R., and S. L. Cohoon, assignors of one-third to T. Scott, Sacramento, Cal. Filter	626,487	June 6	495	115	87	1709
Cook, Edward J., Cleveland, Ohio. Section-insulator	621,631	Mar. 21	2008	448	86	1915
Cook, Francis L., assignor of one-half to F. W. Dickinson, Springfield, Mass. Match-provided cigarette-packet	619,866	Feb. 21	1984	451	86	1240
Cook, Francis L., assignor of one-half to A. Birnie, Springfield, Mass. Non-refillable bottle	626,144	May 30	4081	931	87	1567
Cook, Frank A., East Hartford, Conn. Velocipede fork-crown	624,182	May 2	437	90	87	783
Cook, Frank B., Chicago, Ill. Apparatus for telephonic systems	639,526	Dec. 19	2462	569	89	2384
Cook, Frank B., Chicago, Ill. Drop-restoring device for telephone-switchboards	639,527	Dec. 19	2466	569	89	2385
Cook, Frank B., Chicago, Ill. Telephone transfer-board	639,528	Dec. 19	2467	569 570	89	2385
Cook, Frank T., Antelope, Oreg. Lubricant	635,303	Oct. 24	2451	------	89	533
Cook, George, Louisville, Ky. Automatic fishing device	625,829	May 30	3417	776	87	1444
Cook, George S. (See Sauls and Cook.)						
Cook, George W., Monroe City, assignor of one-half to H. S. Badollet, Vincennes, Ind. Vegetable-cutter	635,161	Oct. 17	2198	513	89	469
Cook, Henry F. (See Woodward, William R. and F. S., assignors.)						
Cook, Herbert F., assignor to Standard Gauge and Manufacturing Company, Cleveland, Ohio. Steam-trap	633,809	Sept. 26	3009	699	88	2339
Cook, Isaac W., Oxford, Md. Steering apparatus	619,867	Feb. 21	1986	451	86	1241
Cook, James C., assignor of two-thirds to G. S. Flick and W. F. Hoffa, Lewisburg, Pa. Ice-tongs	632,176	Aug. 29	4541	1024	88	1676
Cook, James H. (See Coffman, Samuel M., assignor.)						
Cook, John A.. Buffalo, N. Y. Folding postal sheet	638,561	Dec. 5	700	149	89	1999
Cook, John H., Pittsburg, Pa. Pumping apparatus for oil-wells	631,776	Aug. 29	3817	850	88	1535
Cook, John H., New York, N. Y., assignor to H. B. Newhall, Plainfield, N. J. Overhead-tramway switch mechanism	624,302	May 2	663	145	87	827
Cook, John H., New York, N. Y., assignor to H. B. Newhall, Plainfield, N. J. Trolley-track and lift mechanism	630,798	Aug. 8	2001	452 453	88	1126
Cook, John R., assignor to L. T. Riley, Indianapolis, Ind. Tobacco-tagging machine	624,183	May 2	438	90, 91	87	783
Cook, John W. B., Camden, Ark. Nut-lock	617,672	Jan. 10	1532	348	86	318
Cook, John W. B., deceased, St. Louis, Mo.; Z. T. Duncan, executor, assignor to Z. T. Duncan, Camden, Ark. Nut-lock	637,710	Nov. 21	3210	667	89	1639
Cook, Louis A., Conneaut, Ohio, assignor of three-eighths to G. H. Hutchinson, Pittsburg, Pa. Means for tripping buckets	622,840	Apr. 11	1186	276	87	244
Cook, Nathan, *et al.* (See David, Sylvanus E., assignor.)						
Cook, P. J. (See Greer, William N., assignor.)						
Cook, Percy S., New York, N. Y. Smoker's tray	623,768	Apr. 25	2864	656	87	606
Cook, Philander N., Salt Lake City, Utah. Adjustable foot-rest	619,467	Feb. 14	1233	281	86	1069
Cook, Richard H., Fall River, Mass. Shedding mechanism for looms	636,493	Nov. 7	452	100 101	89	1012
Cook, Samuel, Wilmerding, Pa. Water-gage-glass valve	624,181	May 2	442	91	87	784
Cook, Samuel G., Somerville, Mass. Musical instrument	621,900	Mar. 28	2540	573	86	2034
Cook, Sarah E., New Haven, Conn. Abdominal bandage	618,843	Feb. 7	45	9	86	813
Cook, Seymour H., Clinton, Iowa. Fence-machine	620,643	Mar. 7	189	39	86	1538
Cook, Wallace G., and W. H. Shannon, Brighton, Mich. Combined hay and stock rack	630,663	Aug. 8	1789	403 404	88	1083
Cook, Walter E. (See Gawne, White, and Cook.)						
Cook, Walter H., New Orleans, La. Process of and apparatus for cooking cotton-seed	639,529	Dec. 19	2471	570	89	2386
Cook, Walter H., New Orleans, La. Steam-boiler	639,530	Dec. 19	2472	570	89	2386
Cook, William, Philadelphia, Pa. Transmission-gear for motor-vehicles	626,967	June 13	1404	310	87	1904
Cook, William A., Jr. (See Mountford, Clarence E., assignor.)						
Cook, William E., Ogdensburg, N. Y. Match-machine	620,539	Feb. 28	3160	724 725	86	1478
Cook, William E., Ogdensburg, N. Y. Match-machine	620,743	Mar. 7	384	78 79 80	86	1576
Cook, William E., Ogdensburg, N. Y. Match-machine	626,457	June 6	445	105	87	1700
Cook, William E., Ogdensburg, N. Y. Match-machine	626,458	June 6	446	105	87	1700
Cook, William M., Warren, Ohio. Rotary harrow and clod-crusher	629,428	July 25	2742	637 638	88	590
Cooke, Clinton T., Hutchinson, Minn. Gauze-carrier	636,637	Nov. 7	733	160	89	1069

Alphabetical list of patentees—Continued.

Name, residence, and invention.	No.	Date.	Monthly volume.		Official Gazette.	
			Spec.	Dr'g.	Vol.	Page.
Cooke, George K., assignor to Cordley & Hayes, New York, N. Y. Self-closing faucet	630,184	Aug. 1	848	182	88	890
Cooke, James, Omaha, Nebr. Hand-stamp	628,766	July 11	1545	357	88	321
Cooke, Sarah E., executrix, *et al.* (See Brewer, Joseph H., assignor.)						
Cookson, Henry. (See Cookson, Richard S. and H.)						
Cookson, Richard S. and H., Philadelphia, Pa. Woven carpet fabric	620,104	Feb. 28	2406	543	86	1333
Cookson, Thomas J., Joliet, Ind. Cycle	632,102	Aug. 29	4396	987	88	1648
Cool, Charles H., assignor to S. Stick, Jr., Ridgeville, Ind. Wrench	623,947	Apr. 25	3236	746	87	677
Cooley, Charles H., Hartford, Conn. Burglar-alarm	636,396	Nov. 7	285	64	89	978
Cooley, Charles H., assignor to Pratt & Whitney Company, Hartford, Conn. Automatic weighing-machine	632,675	Sept. 5	864	201, 202, 203	88	1880
Cooley, George T., Joplin, Mo. Ore-concentrator	633,686	Sept. 26	2812	654	88	2298
Cooley, Herbert M., Kansas City, Mo., assignor to G. B. Jones, Chicago, Ill. Incandescent lamp	630,862	Aug. 15	2121	481	88	1174
Cooley, Joe H., Abilene, Tex. Elevated electric car-line	639,713	Dec. 26	2823	651	89	2474
Coombe, Philip, Ishpeming, Mich. Fire-escape	625,147	May 16	2180	495	87	1161
Coomber, James, assignor of two-thirds to J. Wilson, Chicago, Ill., and F. L. Norton, Racine, Wis. Vehicle-tire	622,120	Mar. 28	2937	666	86	2111
Coombs, Harry E., Kingston, N. Y. Game	621,960	Mar. 28	2654	598	86	2054
Coombs, Thomas P., Peabody, Mass., assignor to Vaughn Machine Company, Portland, Me. Leather-whitening machine	631,359	Aug. 22	3026	686	88	1370
Coomes, Martin F., and C. Rice, Louisville, Ky. Rotary reciprocating engine	618,453	Jan. 31	3054	675	86	657
Coon, Albert A., Hutsonville, Ill. Wire-stretcher	620,018	Feb. 21	2246	510	86	1289
Coon, Albert A., Hutsonville, Ill. Stovepipe-holder	622,121	Mar. 28	2938	666	86	2111
Coon, Albert A., Hutsonville, Ill. Weather-strip	633,810	Sept. 26	3010	700	88	2339
Coon, Willis H., Rochester, N. Y., assignor to Expansive Tree Protector Company, of New York. Expansive tree-protector	639,021	Dec. 12	1543	354	89	2187
Cooney, Thomas F., Verplanck, N. Y. Wire broiling-pan	639,150	Dec. 12	1749	404	89	2227
Coonley, Guilead G., and D. M. Boylan, Bristow, Iowa. Draft-equalizer	625,322	May 23	2502	568	87	1248
Coonradt, William M., assignor to R. G. Hitt, Atlanta, Ga. Apparatus for tying compressed bales with wire	618,645	Jan. 31	3394	755, 756	86	723
Coons, James, New York, N. Y., assignor to P. C. Shaffer and J. F. Reid. Gas or liquid vending machine	621,961	Mar. 28	2654	598	86	2055
Coons, Joseph A., Crowley, La. Pulverizer	629,712	July 25	3262	761	88	690
Cooper, Albert. (See Hickok and Cooper.)						
Cooper, Albert, assignor to W. O. Hickok Manufacturing Company, Harrisburg, Pa. Ruling-machine	621,328	Mar. 21	1478	328	86	1814
Cooper, Albert R., Findlay, Ohio. Shoemaker's jack	631,519	Aug. 22	3330	756	88	1430
Cooper, Augustus S., San Francisco, Cal. Method of and apparatus for extracting bitumen from sand	617,226	Jan. 3	689	160, 161	86	135
Cooper, Augustus S., San Francisco, Cal. Apparatus for raising bituminous sand from wells and separating the bitumen from its impurities	636,117	Oct. 31	4062	929	89	861
Cooper, Calvin K., Carus, Oreg. Jar-closure	620,889	Mar. 14	656	143	86	1644
Cooper, Charles J., assignor to E. T. Cooper, Moline, Ill. Harness-saddletree	617,876	Jan. 17	1950	437	86	419
Cooper, Charles W. (See Bjerregaard, August P., assignor.)						
Cooper, Cyrus, assignor of one-half to J. N. Smith, Tiverton, Ohio. Neck-yoke	617,225	Jan. 3	688	159	86	134
Cooper, Daniel M. (See Hagen and Cooper.)						
Cooper, Eugene J., *et al.* (See Guise, William L., assignor.)						
Cooper, Evelyn T. (See Cooper, Charles J., assignor.)						
Cooper, Frederick, Handsworth, England. Bicycle, tricycle, &c	637,371	Nov. 21	2221	477	89	1405
Cooper, Harry, San Antonio, Tex. Dumping-vehicle	618,495	Jan. 31	3136	693	86	673
Cooper, Harry C., Chicago, Ill. Molding-machine	632,242	Sept. 5	23	6, 7, 8, 9, 10, 11	88	1713
Cooper, Harry C., Chicago, Ill. Sand-molding machine	632,243	Sept. 5	51	11, 12, 13, 14	88	1718
Cooper, Harry C., Chicago, Ill. Molding-machine sand-reservoir	632,244	Sept. 5	62	14, 15	88	1719
Cooper, Harry C., Chicago, Ill. Molding-machine sprue mechanism	632,245	Sept. 5	65	15, 16	88	1720
Cooper, Harry C., Chicago, Ill. Molding-machine chaplet-adjuster	632,246	Sept. 5	70	16	88	1721
Cooper, Harry C., Chicago, Ill. Molding-machine pattern	632,247	Sept. 5	71	16	88	1721
Cooper, Harry C., Chicago, Ill. Molding-machine flask	632,248	Sept. 5	73	16	88	1721
Cooper, Harry C., Chicago, Ill. Molding-machine mold	632,249	Sept. 5	74	17	88	1721
Cooper, Harry C., Chicago, Ill. Molding-machine sand-delivery mechanism	632,250	Sept. 5	75	17	88	1722
Cooper, Harry C., Chicago, Ill. Clamp for molders' flasks	632,251	Sept. 5	76	17	88	1722
Cooper, Henry C. H., deceased, assignor to United States Voting Machine Company, Jamestown, N. Y. Voting-machine. (Reissue)	11,784	Nov. 7	964	207, 208	89	1127
Cooper, Henry C. H., deceased, assignor to United States Voting Machine Company, Jamestown, N. Y. Voting-machine. (Reissue)	11,792	Nov. 28	4167	879, 880, 881	89	1849
Cooper, Herbert, Jersey City, N. J. Diamond-polishing dop	631,562	Aug. 22	3417	773	88	1447
Cooper, Herbert W. (See Creedon, John J., assignor.)						
Cooper, James G., New York, N. Y., assignor to C. Linn and W. H. Speer, Jr., Jersey City, N. Y. Controlling-valve for motors	620,281	Feb. 28	2712	621, 622	86	1393
Cooper, James G., New York, N. Y., assignor to C. Linn and W. H. Speer, Jr., Jersey City, N. Y. Controlling-valve for motors	620,282	Feb. 28	2713	622, 623	86	1393
Cooper, John E. (See Brewer, William J., assignor.)						
Cooper, John J., New York, N. Y., assignor to A. J. Ditman, Englewood, N. J. Suspensory bandage	628,392	July 4	826	193	88	158
Cooper, Joseph H., Plano, Ill. Whip-socket	626,651	June 6	778	177	87	1765
Cooper, Madison, Jr., Minneapolis, Minn. Refrigerating apparatus	629,341	July 25	2582	598, 599	88	556
Cooper, Martin L., Modesto, Cal. Vaporizer	631,952	Aug. 29	4109	922	88	1592
Cooper, Richard E., Keith, assignor of one-half to W. H. Isbill, Fillmore, Ga. Nut-lock	619,722	Feb. 21	1708	390	86	1186
Cooper, Thomas, King's Lynn, England. Thrust-block	625,021	May 16	1955	438	87	1120
Cooper, Thomas, King's Lynn, and W. H. Woodcock, London, England. Roller-bearing	635,845	Oct. 31	3508	806	89	752
Cooper, Thomas O., assignor of one-half to J. L. Hall, Wilmington, Del. Electric railway-gate	628,893	July 4	828	193, 194	88	158
Cooper, W. A., *et al.* (See Barnes, John W., assignor.)						
Cooper, Walter, Belfast, Me. Attachment for type-writing machines	626,221	June 6	13	3	87	1617
Cooper, Walter, Seattle, Wash. Air-pump piston-rod oiler	630,488	Aug. 8	1466	328	88	1023
Cooper, Walter W., Cora, Kans. Churn	639,022	Dec. 12	1543	354	89	2187

Alphabetical list of patentees—Continued.

Name, residence, and invention.	No.	Date.	Monthly volume. Spec.	Monthly volume. Dr'g.	Official Gazette. Vol.	Official Gazette. Page.
Cooper, William, W. H. Warren, and C. A. Mudge, assignors to Bullock Electric Manufacturing Company, Cincinnati, Ohio. Brush-holder for commutators	634,804	Oct. 10	1520	357	89	319
Cooper, William F., Meriden, Conn. Gasometer	633,427	Sept. 19	2326	548	88	2191
Coors, John. (See Barger, Lucas, assignor.)						
Coote, Hugh H., Bisbee, Ariz. Ter. Cigar-holder	626,968	June 13	1406	310	87	1905
Copass, William P., and J. Biles, Spivey, Tenn. Vehicle-axle	619,822	Feb. 21	1895	432	86	1223
Cope, Henry P., Detroit, Mich. Stove	627,770	June 27	2899	634	87	2237
Cope, Henry P., assignor to Peninsular Stove Company, Detroit, Mich. Means for removing grates	624,185	May 2	443	92	87	785
Cope, Henry S., Melbourne, Victoria. Amalgamating apparatus	635,236	Oct. 17	2321	542	89	492
Cope, William A., Pratt, and J. L. Myers, Caldwell, Kans. Tintype apparatus	638,907	Dec. 12	1338	305	89	2147
Copeland, Charles C., Milton, Mass. Garment-hanger	638,959	Dec. 12	1426	326	89	2165
Copeland, James S., Hartford, Conn., assignor to Pope Manufacturing Company, Boston, Mass. Extensible crank for velocipedes	634,573	Oct. 10	1129	268	89	242
Copeland, James S., Hartford, Conn., assignor to Pope Manufacturing Company, Hartford, Conn., and Portland, Me. Gear-cutting machine	638,216	Dec. 5	14	5	89	1870
Copeland, James S., Hartford, Conn., assignor to Pope Manufacturing Company, Hartford, Conn., and Portland, Me. Rear bracket for bicycle-frames	639,531	Dec. 19	2473	570, 571	89	2386
Copeland, James S., Hartford, Conn., assignor to American Bicycle Company, Jersey City, N. J. Gear-cutting machine	638,562	Dec. 5	701	149	89	2000
Copeland, Lucius D. (See Farrington and Copeland.)						
Copeland, Lucius D., assignor of one-tenth to J. P. McWilliams, Phœnix, Ariz. Ter. Feed-water heater and pump for locomotives	624,303	May 2	665	145	87	827
Copeland, Luther W., Longtown, Miss. Folding crate or coop	632,644	Sept. 5	783	181, 182	88	1862
Copeman, Thorn. assignor of one-third to J. Waite, Edgar Mills, Canada. Railway-switch	629,955	Aug. 1	424	92	88	805
Copley, Charles T., *et al.* (See Proctor, Richard B., assignor.)						
Copley, Marshall & Company. (See Marshall, Percy S., assignor.)						
Copper and Steel Welding Company. (See Andersen, August W., assignor.)						
Coradino, Dominick, Hoboken, N. J., assignor to Luther & Lederhos, New York, N. Y. Oil-stove	630,328	Aug. 8	1122	245, 246	88	959
Coran, Samuel, New York, N. Y. Vise	638,835	Dec. 12	1210	272	89	2122
Corbin Cabinet Lock Company. (See Bishop, Charles B., assignor.)						
Corbin, Donald R., New York, N. Y. Scarf-pin	635,427	Oct. 24	2732	626	89	588
Corbin, Jay S., Prescott, Canada. Land-roller	635,279	Oct. 17	2403	559, 560	89	507
Corby, Charles I. (See Corby, William S. and C. I.)						
Corby, Charles I. (See Corby, William S. and C. I.) (Reissue.)						
Corby, William S. and C. I., Washington, D. C. Making dough for bread	629,239	July 18	2385		88	500
Corby, William S. and C. I., Washington, D. C. Machine for making dough in manufacturing fermented bread	639,889	Dec. 26	3138	721, 722	89	2536
Corby, William S. and C. I., Washington, D. C. Machine for making and working dough	640,096	Dec. 26	3515	807, 808	89	2614
Corby, William S. and C. I., Washington, D. C. Making and working dough	640,097	Dec. 26	3519	808	89	2615
Corby, William S. and C. I., assignors of one-third to T. J. Mayer, Washington, D. C. Machine for working and shaping dough. (Reissue)	11,751	June 20	2330	513, 514	87	2107
Corcoran, William D. (See Capper, Charles, assignor.)						
Corcoran, William E., Jr. (See Simpson, Walter N., assignor.)						
Cord, William, Los Angeles, Cal. Copy-holder	624,912	May 16	1768	399	87	1085
Cordeau, Gaston E., assignor to G. F. Wilson, New York, N. Y. Check-valve for air	623,135	Apr. 18	1736	401	87	366
Cordes, Walter G., assignor to Non-Poisonous "Strike Anywhere" Match Syndicate, Limited, London, England. Match composition	627,393	June 20	2203		87	2082
Cordle, Hamner J., Littleton, N. C. Tricycle	621,034	Mar. 14	955	208	86	1699
Cordley & Hayes. (See Cooke, George K., assignor.)						
Cordray, Alpheus E., Kansas City, Mo. Self-heating sad-iron	621,035	Mar. 14	956	208	86	1699
Cordray, Henry A., Brenham, Tex. Slat-operating means for shutters	640,098	Dec. 26	3520	808	89	2615
Cordrey, Charles K., Bellefontaine, Ohio. Railway-switch	637,447	Nov. 21	2356	508	89	1431
Cordry, Oliver, *et al.* (See Melson, John T., assignor.)						
Corduan, Frank H., assignor of one-half to C. F. Holm, New York, N. Y. Ball-caster	626,055	May 30	3886	883	87	1531
Corey, Clarke H., West Mill Grove, Ohio. Safety-lock for doors	618,844	Feb. 7	46	10	86	813
Corey, F. B., *et al.* (See Parks, Albert F., assignor.)						
Corey, William W., Jr., St. Louis, Mo. Safety attachment for valve-stems	622,912	Apr. 11	1313	302	87	268
Corey, William W., Jr., St. Louis, Mo. Bolt-head	624,628	May 9	1250	280	87	965
Corkhill, Henry R., Jr., assignor to Stecher Lithographic Company, Rochester, N. Y. Machine for refolding paper tubes	624,754	May 9	1464	331, 332, 333, 334	87	1008
Corliss, William, Providence, R. I. Wheel-tire	627,223	June 20	1855	406	87	2012
Cormier, Frank S., Moncton, Canada. Rudder frame and gear for ships	628,767	July 11	1547	357	88	322
Corneil, George. (See Corneil, Robert F., assignor.)						
Corneil, Robert F., assignor of one-half to G. Corneil, Phillipsburg, Mont. Window-sash pull	639,151	Dec. 12	1751	405	89	2227
Corneil, Robert F., assignor of one-half to J. R. Lucas and H. Rehfeldt, Phillipsburg, Mont. Pole or thill coupling	635,428	Oct. 24	2733	627	89	588
Cornelius, Aaron M., assignor of one-fourth to W. H. Colville, Downer's Grove, Ill. Lawn-mower	621,901	Mar. 28	2543	574	86	2034
Cornelius, Clyde, assignor to R. O'Connor, Wilkes-Barré, Pa. Dough-mixer	628,073	July 4	210	48	88	12
Cornelius, Oliver H. P. (See Davis and Cornelius.)						
Cornelius, Wilbur F., assignor of one-half to W. R. Brady, Indianapolis, Ind. Inflatable tire	616,901	Jan. 3	65	13	86	15
Cornell, Chauncey A., *et al.* (See Wells, Albert E., assignor.)						
Cornell, Evan W., Adrian, Mich. Temporary binder	627,484	June 27	2369	522	87	2131
Cornell, George L., Ferry, Ohio. Adjustable fender for cultivators	626,222	June 6	14	4	87	1617
Cornell, Lawrence L., Richmond, Va. Advertising-wagon	627,055	June 13	1564	342	87	1935
Cornell, Nathaniel M., Royalton, Minn. Railway-rail joint	635,918	Oct. 31	3653	842	89	780
Cornely, Emile and R., Paris, France. Beading or cording machine	619,389	Feb. 14	1101	249	86	1045
Cornely, Emile and R., Paris, France. Beading or cording machine	619,390	Feb. 14	1102	249	86	1045
Cornely, Emile and R., Paris, France. Embroidering and edging machine	626,367	June 6	297	67, 68	87	1671
Cornely, Emile and R., Paris, France. Embroidering and edging machine	626,671	June 13	821	187, 188	87	1793
Cornely, Robert. (See Cornely, Emile and R.)						
Cornett, James W., Galveston, Tex. Road grading and ditching machine	623,395	Apr. 18	2214	508	87	462
Cornforth, Edwin, Thorndike, Me. Milk-pail holder	625,148	May 16	2181	496	87	1161
Cornish, Curtis & Greene Manufacturing Company. (See Valerius, Theodore L., assignor.)						
Cornish, George A., Gilette, N. J. Lantern-holder	622,122	Mar. 28	2939	667	86	2111
Cornish, Harry B., assignor, by mesne assignments, to V. J. Welch, Minneapolis, Minn. Carbureter	619,281	Feb. 14	923	209	81	1009

Alphabetical list of patentees—Continued.

Name, residence, and invention.	No.	Date.	Monthly volume.		Official Gazette.	
			Spec.	Dr'g.	Vol.	Page.
Cornish, Joel F., West Union, Iowa. Saw-filing machine	630,288	Aug. 1	1022	225, 226	88	924
Cornish, Joel F., West Union, Iowa. Rotary steam-engine	633,570	Sept. 26	2585	606	88	2256
Cornman, Wilson S., *et al.* (See Raby, Richard, assignor.)						
Cornwall, George, Port Chester, N. Y., assignor to H. C. Cornwall, Wyoming, N. J., H. Kitchen and J. K. Irvine, New York, N. Y. Book-cover protector	622,178	Mar. 28	3053	692	86	2135
Cornwall, George R., Port Chester, N. Y. Making printing designs	630,664	Aug. 8	1790	------	88	1084
Cornwall, Harry C., *et al.* (See Cornwall, George, assignor.)						
Cornwall, John B., Moline, Ill. Grain scourer and conveyer	635,748	Oct. 31	3319	766, 767	89	715
Cornwall, John B., assignor to Barnard & Leas Manufacturing Company, Moline, Ill. Automatic shake-feeder	631,485	Aug. 22	3260	741	88	1416
Correa, Luis, La Felguera, Spain. Furnace for reducing ores	638,099	Nov. 28	3954	831, 832	89	1805
Correll, Banerd A., assignor of one-half to C. Y. Emerson, York, Pa. Carpet-cleaner	628,768	July 11	1548	358	88	322
Corrigan, John, Manchester, England. Apparatus for supplying cotton to openers	618,784	Jan. 31	3635	812	86	771
Corrington, Murray, New York, N. Y. Air-brake	636,954	Nov. 14	1395	297	89	1229
Corry, Michael. (See Barker, Ruben F., assignor.)						
Corry, Michael, and R. F. Barker, Marinette, Wis. Steam set-works for sawmills. (Reissue)	11,732	Apr. 11	1714	396	87	347
Corscaden, Adeline J., administratrix. (See Corscaden, Thomas.)						
Corscaden, Thomas, deceased; A. J. Corscaden, Philadelphia, Pa., administratrix. Punching-die	629,429	July 25	2743	638	88	590
Corscaden, Thomas, deceased; A. J. Corscaden, Philadelphia, Pa., administratrix. Die for shaping pulley-spoke blanks	630,036	Aug. 1	587	128	88	839
Corscaden, Thomas, deceased; A. J. Corscaden, Philadelphia, Pa., administratrix. Machine for shaping sheet metal	630,449	Aug. 8	1392	312	88	1008
Corscaden, Thomas, deceased; A. J. Corscaden, Philadelphia, Pa., administratrix. Die for finishing pulley-spoke blanks	630,450	Aug. 8	1398	313	88	1009
Corscaden, Thomas, deceased; A. J. Corscaden, Philadelphia, Pa., administratrix. Die for shaping pulley-rim clamps	630,776	Aug. 8	1964	444	88	1119
Corscaden, Thomas, deceased; A. J. Corscaden, Philadelphia, Pa., administratrix. Die for shaping blanks for pulley-spokes	630,777	Aug. 8	1966	444, 445	88	1119
Corse, Homer W., assignor of one-half to T. S. Simonds, Melrose, Mass. Electric motor	623,989	May 2	64	14	87	714
Corser, Brackett G., Brattleborough, Vt. Buckle for overalls	630,037	Aug. 1	590	128	88	840
Corser, Edson J., assignor to Bickford & Huffman Company, Macedon, N. Y. Bearing for wheels for agricultural machines	617,143	Jan. 3	550	130	86	108
Corser, Edson J., assignor of one-half to G. W. Kirkpatrick, Macedon, N. Y. Fertilizer-distributer	627,983	July 4	46	9	88	11
Corson, William P., Salem, Mass. Shade-roller bracket	627,325	June 20	2053	452	87	2054
Corson, William R. C., Hartford, assignor to Eddy Electric Manufacturing Company, Windsor, Conn. Automobile	632,805	Sept. 12	1139	262, 263	88	1948
Cort, Warren L., and F. A. Langwith, New York, N. Y. Coin-controlled gas-meter	621,902	Mar. 28	2546	574, 575	86	2035
Cortis, Dwight T. (See Cortis, Frank A., assignor.)						
Cortis, Frank A., Meriden, Conn., assignor to D. T. Cortis, Boston, Mass. Gas-burner	629,430	July 25	2746	638	88	591
Cortis, Frank A., Meriden, Conn., assignor to D. T. Cortis, Boston, Mass. Lamplighting device	629,431	July 25	2748	639	88	591
Cortis, Frank A., Meriden, Conn., assignor to D. C. Cortis, Boston, Mass. Incandescent vapor-burner	629,432	July 25	2750	639	88	592
Corver, Wouter, Meester Cornelis, Java. Journal-bearing	617,719	Jan. 17	1632	367	86	357
Corwin, Lewis E., Melvern, Kans. Acetylene-gas machine	634,879	Oct. 17	1668	393	89	364
Cory, Randolph P., assignor of forty-nine one-hundredths to J. Baron, St. Louis, Mo. Choke-bore attachment for guns	633,428	Sept. 19	2327	548	88	2191
Coryell, Edwin M., assignor to J. E. Cameron, New York, N. Y. Priming device for pumps	629,002	July 18	1973	459	88	421
Coryell, Edwin M., assignor to J. E. Cameron, New York, N. Y. Automatic pump and receiver	638,960	Dec. 12	1427	326	89	2165
Coryell, Miers, New York, N. Y. Tube-header	633,337	Sept. 19	2162	506	88	2159
Cosby, Charles H., Richmond, Va. Stove	620,420	Feb. 28	2946	675, 676	86	1437
Cosgrave, Maria B., *et al.* (See Cosgrave, Sylvester A., assignor.)						
Cosgrave, Sylvester A., assignor to M. B. Cosgrave, Edgewood Park, A. French and M. L. Patterson, Pittsburg, Pa. Manufacture of compound ingots	638,908	Dec. 12	1340	305, 306	89	2148
Cosgrave, Sylvester A., assignor to M. B. Cosgrave, Edgewood Park, A. French and M. L. Patterson, Pittsburg, Pa. Mold for compound ingots	638,909	Dec. 12	1343	306	89	2148
Cosgrave, Sylvester A., assignor to M. B. Cosgrave, Edgewood Park, A. French and M. L. Patterson, Pittsburg, Pa. Making compound ingots	638,961	Dec. 12	1428	326, 327	89	2165
Cosner, Amsey N., and G. L. Mathews, Newton, N. J. Game apparatus	628,769	July 11	1549	358	88	322
Cossey, Myron, New York, N. Y. Means for hanging laterally-moving doors	632,224	Aug. 29	4624	1042	88	1692
Cossitt, Lincoln L. (See Haight and Cossitt.)						
Costello, Thomas H., Chicago, Ill. Globe	637,088	Nov. 14	1651	357	89	1278
Costello, Thomas H., Chicago, Ill. Globe	637,237	Nov. 21	1967	419	89	1354
Coté, Louis P., *et al.* (See Da Rozir, Levi, assignor.)						
Cothias, Alpha F., Ivry-sur-Seine, France. Founding and molding	623,203	Apr. 18	1869	428	87	392
Cotin, Charles C., London, England. Wig foundation	619,823	Feb. 21	1896	433	86	1223
Cotner, George. (See Moore, Cotner, and Obenchain.)						
Cott, George F., and J. Loos, Buffalo, N. Y. Atomizer	638,445	Dec. 5	497	101	89	1962
Cotter, John, St. Louis, Mo. Fire-escape	640,099	Dec. 26	3522	808	89	2615
Cotter, Joseph E., St. Louis, Mo. Bicycle alarm-bell	628,074	July 4	211	48	88	42
Cotton, Walter H., Chicago, Ill. Electric igniter for gas-engines	634,430	Oct. 3	870	210	89	175
Cottrell, Charles P. (See Cottrell, Edgar H. and C. P.)						
Cottrell, Charles P., Stonington, Conn., assignor to C. B. Cottrell & Sons Company, Stonington, Conn., and New York, N. Y. Printing-machine	621,749	Mar. 21	2248	507, 508	86	1962
Cottrell, Charles P., Westerly, R. I., assignor to C. B. Cottrell & Sons Company, Jersey City, N. J., Stonington, Conn., and New York, N. Y. Mechanical movement	623,885	Apr. 25	3116	718, 719	87	655
Cottrell, Charles P., Westerly, R. I., assignor to C. B. Cottrell & Sons Company, Jersey City, N. J., Stonington, Conn., and New York, N. Y. Mechanical movement	623,886	Apr. 25	3122	719, 720	87	656
Cottrell, Edgar H. and C. P., Stonington, Conn., assignors to C. B. Cottrell & Sons Company, Stonington, Conn., and New York, N. Y. Apparatus for folding paper	633,716	Sept. 26	2866	666	88	2310
Cottrell, Edgar H. and C. P., Stonington, Conn., assignors to C. B. Cottrell & Sons Company, Stonington, Conn., and New York, N. Y. Apparatus for cutting and folding paper	640,100	Dec. 26	3523	809, 810	89	2616
Cottrell, George C. (See Parsley and Cottrell.)						
Cottrell, Harry R., West Bromwich, England. Coin-freed delivery apparatus	637,238	Nov. 21	1968	420, 421	89	1354

Alphabetical list of patentees—Continued.

Name, residence, and invention.	No.	Date.	Monthly volume.		Official Gazette.	
			Spec.	Dr'g.	Vol.	Page.
Cottrell, Herbert, Newark, assignor to J. E. Lassig, Hoboken, N. J. Mechanical and magnetic amusement game	628,887	Apr. 25	3129	720, 721	87	657
Couch, Albert B., Pelham, Ga. Machine for hulling and polishing grains	629,547	July 25	2972	694	88	635
Couch, Charles A., assignor to Couch Exhaust Radiator Company, Chicago, Ill. Locomotive	617,564	Jan. 10	1346	302	86	281
Couch, Elbert M., Northampton, Mass., assignor to Pratt & Whitney Company, Hartford, Conn. Automatic spindle-chuck	629,713	July 25	3263	761	88	690
Couch, Elbert M., Northampton, Mass., assignor to Pratt & Whitney Company, Hartford, Conn. Device for automatically feeding articles to screw-machine chucks	629,714	July 25	3266	762, 763	88	690
Couch Exhaust Radiator Company. (See Couch, Charles A., assignor.)						
Coughlin, Thomas W., Binghamton, N. Y. Head-rest for caskets	628,649	July 11	1344	313	88	280
Coughlin, William, New York, N. Y. Bedstead	624,434	May 2	892	202	87	873
Couls, George R., and P. P. Dohlgreen, Tacoma, Wash. Concentrating and amalgamating machine	628,697	July 11	1430	332	88	297
Coulson, William A., London, England. Acetylene-gas apparatus	625,832	May 30	3422	777	87	1445
Coulson, William A., London, England. Acetylene-gas generator	625,833	May 30	3423	777	87	1445
Coult, Walter, assignor to John F. Brooks Company, Needham, Mass. Striping attachment for knitting-machines	631,953	Aug. 29	4110	922, 923	88	1592
Coulter, David W. (See Wissinger, Isaac N., assignor.)						
Coulter, James M., Grove City, Pa. Clothes-washing machine	617,673	Jan. 10	1533	348	86	318
Coulter, John W. (See Chauvet and Coulter.)						
Coulter & McKenzie Machine Company. (See Berg, Andrew, assignor.)						
Coulthard, Walter, Oshawa, Canada. Seed-drill shoe	626,672	June 13	823	188	87	1793
Counselman, Phillip W., McClure, Ohio. Driving-mitten	626,969	June 13	1407	311	87	1905
Coupal, Peter A., and W. Gordon, Boston, Mass. Welt-attaching machine	618,027	Jan. 17	2218	495	86	471
Coupal, Peter A., and W. Gordon, Boston, Mass., assignors to Goodyear Shoe Machinery Company, Portland, Me. Inner-sole machine	623,306	Apr. 18	2056	472	87	430
Courser, Thomas. (See Gilbert, Edward A., assignor.)						
Coursey, Benjamin H. (See Street and Coursey.)						
Coursey, Benjamin H., Sharon Grove, Ky., and N. R. Coursey, Blossom, Tex. Cycle brake and motor	635,664	Oct. 24	3148	725, 726	89	668
Coursey, Netter R. (See Coursey, Benjamin H. and N. R.)						
Courson, Clinton S., Springfield, Ohio. Device for preventing electrolysis in pipes	634,848	Oct. 10	1604	376	89	336
Courson, J. F., *et al.* (See Gulland, Charles, assignor.) (Reissue.)						
Courtenay, John I. (See King, Frank, assignor.)						
Courtman, Reuben S., London, England. Manufacture of hubs for wheels of cycles	639,532	Dec. 19	2475	571	89	2387
Courtney, Francis M., Wauconda, Ill. Folding baby-carriage	638,100	Nov. 28	3955	832	89	1805
Couse, Fredric P., Westfield, Mass. Loading for whip-butts	630,665	Aug. 8	1792	404	88	1084
Cousen, Alfred, Detroit, Mich. Caster	622,449	Apr. 4	446	104	87	83
Cousins, Edward J., *et al.* (See Davis, George P., assignor.)						
Cousins, Robert, San Francisco, Cal. Corset	631,620	Aug. 22	3515	791	88	1467
Cousins, Willard C., Ferrum, Va. Plow	620,228	Feb. 28	2622	596	86	1374
Couture, Eusebe P., assignor of two-thirds to G. Ray, Gualala, Cal. Rotary engine	638,910	Dec. 12	1344	306, 307	89	2149
Couty, Charles E., Louisville, Ky. Apparatus for treating tobacco	628,394	July 4	833	194	88	159
Covell, Edward T., New Bedford, Mass. Book-cover protector	633,375	Sept. 19	2233	526	88	2172
Covell, Harry N., New York, N. Y. Hoisting machinery	621,632	Mar. 21	2009	448	86	1915
Covell, Harry N., New York, N. Y. Oil-box	635,665	Oct. 24	3152	726	89	669
Covert, James C., Watervliet, N. Y. Snap-hook	620,569	Mar. 7	29	5	86	1508
Covington, Henry L., *et al.* (See Rouse, James G. B., assignor.)						
Covington, Thomas C., Dillon, S. C. Tether	623,596	Apr. 25	2584	591	87	553
Cowan, Charles C. (See Whitfield, Marcy L., assignor.)						
Cowan, Charles C., assignor to Whitfield Company, Memphis, Tenn. Combined engine and dynamo	632,896	Sept. 12	1318	302	88	1981
Cowan, Charles C., assignor to Whitfield Company, Memphis, Tenn. Combined engine and dynamo-electric machine	632,897	Sept. 12	1319	303	88	1982
Cowan, Edward W., and A. Still, Bowdon, England. Regulating-transformer	620,283	Feb. 28	2714	623	86	1394
Cowan, James T., Boston, Mass. Fan attachment for rocking-chairs	622,123	Mar. 28	2940	667	86	2112
Cowan, Mark L., Eddy, Tex. Milk-cooler	633,261	Sept. 19	2010	472	88	2129
Cowan, Mark L., Eddy, Tex. Milk-cooler	633,262	Sept. 19	2012	472	88	2130
Cowan, William, *et al.* (See Lee, Thomas, assignor.)						
Cowan, William K., Los Angeles, Cal. Bicycle-gear	633,753	Sept. 26	2927	680	88	2321
Cowell, William G., New Haven, Conn. Paper-box machine	630,596	Aug. 8	1669	374, 375	88	1062
Cowgill, C. D. (See Vernon, William E., assignor.)						
Cowin, Frederick, assignor to Anglo-American Provisiou Company, Chicago, Ill. Meat mixing and kneading machine	631,846	Aug. 29	3933	879, 880	88	1558
Cowin, Frederick, assignor to Anglo-American Provision Company, Chicago, Ill. Meat-mixer	637,765	Nov. 28	3309	692	89	1677
Cowing, John P., Cleveland, Ohio. Gate for drawbridges	626,970	June 13	1408	311	87	1905
Cowing, John P., Cleveland, Ohio. Bascule lift-bridge	633,811	Sept. 26	3013	700	88	2339
Cowl, William H., New York, N. Y. Picture-molding	630,185	Aug. 1	850	182	88	890
Cowles, Arthur B., Rochester, N. Y., assignor to Standard Lithographing Company of the City of New York, of New York. Paper-cutting machine	632,214	Aug. 29	4609	1039	88	1689
Cowles, C. D. (See Hoffmann, Arnold G., assignor.)						
Cowles, Charles A., Ansonia, Conn. Wire-manufacturing machinery	618,396	Jan. 31	2953	654	86	639
Cowles, Charles A., Ansonia, Conn. Machine for stringing drawing-dies upon wire	619,723	Feb. 21	1709	390, 391	86	1186
Cowles, Charles A., Ansonia, Conn. Wire-drawing machine	619,724	Feb. 21	1714	391, 392	86	1187
Cowles, Charles A., assignor to Ansonia Brass and Copper Company, Ansonia, Conn. Watch-holder attachment for vehicles	630,186	Aug. 1	851	182	88	890
Cowles, Frederick L. (See Jones, Charles B., assignor.)						
Cowles, Harry L., assignor to New Era Company, New York, N.Y. Spool for webs of paper	637,853	Nov. 28	3470	725	89	1711
Cowles, John E., and C. W. Andridge, Storm Lake, Iowa. Grain-loading machine	627,906	June 27	3149	689	87	2287
Cowles, William A., assignor to Ansouia Brass and Copper Company, Ansonia, Conn. Scouring-machine	617,720	Jan. 17	1633	367	86	357
Cowles, William B., assignor to Long Arm System Company, Cleveland, Ohio. Hydraulic system for closing bulkhead-doors	631,698	Aug. 22	3640	821, 822	88	1493
Cowley, James T., Lowell, Mass., assignor to Lamson Consolidated Store Service Company, Newark, N. J. Conveying apparatus	640,101	Dec. 26	3529	810, 811, 812	89	2617
Cowley, James T., Lowell, Mass., assignor to Lamson Consolidated Store Service Company, Newark, N. J. Conveying apparatus	640,102	Dec. 26	3533	812	89	2617
Cowley, James T., Lowell, Mass., assignor to Lamson Consolidated Store Service Company, Newark, N. J. Conveying apparatus	640,103	Dec. 26	3536	812	89	2618

Alphabetical list of patentees—Continued.

Name, residence, and invention.	No.	Date.	Monthly volume. Spec.	Monthly volume. Drg.	Official Gazette. Vol.	Official Gazette. Page.
Cowley, James T., Lowell, Mass., assignor to Lamson Consolidated Store Service Company, Newark, N. J. Conveying apparatus	640,104	Dec. 26	3537	813	89	2618
Cowper-Coles, Sherard O., London, England. Electrodeposition of zinc upon iron	623,888	Apr. 25	3130	721	87	657
Cowper-Coles, Sherard O., assignor of three-fifths to J. N. Sparks and T. F. Thomson, London, England, and J. S. MacArthur, Pollokshields, Scotland. Manufacture of electric conductors	628,770	July 11	1551	------	88	322
Cowper, John B., Lynbrook, N. Y. Ship's windlass	621,489	Mar. 21	1760	393	86	1867
Cowperthwait, Allan. (See See and Cowperthwait.)						
Cox, Abner C., Prairie City, Ill. Hearse	627,907	June 27	3150	689	87	2288
Cox, Cary S., Fresno, Cal. Machine for stemming and cleaning raisins	639,152	Dec. 12	1752	405	89	2228
Cox, Charles D. (See Gray and Cox.)						
Cox, Charles D., and F. Gray, Chicago, Ill. Automatic sprinkler-head for fire-extinguishers	635,749	Oct. 31	3322	767	89	715
Cox, Charles H., Liverpool, England. Electrical switchboard	637,323	Nov. 21	2127	458, 459	89	1386
Cox, Clayton E., Sheridan, Ind. Wardrobe	639,668	Dec. 19	2729	628	89	2439
Cox, David P., Terre Haute, Ind. Milk cooler and aerator	626,673	June 13	824	188	87	1793
Cox, Edward H. (See Pollitz and Cox.)						
Cox, Edward W. (See Blake and Cox.)						
Cox, Edwin M., and J. S. Grange, Orangeville, Utah. Implement for laying and pulverizing ground	625,646	May 23	3061	697	87	1357
Cox, Erskine H., Bethlehem, Pa. Picture-hanging device	623,655	Apr. 25	2679	615	87	570
Cox, Fannie, Fort Gibson, Ind. Ter. Cooking and drying apparatus	618,496	Jan. 31	3139	694	86	673
Cox, Frank P. (See Fish and Cox.)						
Cox, Frank P., Lynn, Mass., assignor to General Electric Company, of New York. Inspector's indicating-wattmeter	625,830	May 30	3418	776	87	1444
Cox, George R. (See Bailey, Cox, and Hey.)						
Cox, Harry B., New York, N. Y. Safety cable system for electric railways	623,136	Apr. 18	1737	401	87	366
Cox, Harry B., New York, N. Y. Electric railway	624,304	May 2	666	146	87	827
Cox, Harry W., Nottingham, England. Electrical advertising-machine	622,607	Apr. 4	756	175, 176	87	144
Cox, Harry W., Nottingham, England. Electrical advertising-machine	622,608	Apr. 4	757	176	87	144
Cox, John C., Elyria, Ohio. Plow	620,421	Feb. 28	2947	676	86	1437
Cox, John R., W. H. Reynolds, and G. H. Wright, Galveston, Tex. Steam-separating trap	634,659	Oct. 10	1272	300, 301	89	271
Cox, John S., Escondido, Cal., assignor of one-half to J. P. Oleson, Seattle, Wash. Platform weighing-scale	640,158	Dec. 26	3625	833	89	2637
Cox, Orlando P., assignor of one-half to A. D. Cole, Maysville, Ky. Lifting-jack	622,208	Apr. 4	19	4.5	87	6
Cox, Paul F., Hartford, assignor to Unitype Company, Manchester, Conn. Multispace	631,062	Aug. 15	2498	566	88	1248
Cox, Richard C. (See Peterson, Charles E., assignor.)						
Cox, Robert G., Urich, Mo. Combined shovel, poker, and tongs	629,003	July 18	1975	459	88	422
Cox, Wiley O., *et al.* (See Wolfe, Thomas, assignor.)						
Cox, William H., Virden, Ill. Churn	627,805	June 27	2963	648, 649	87	2249
Cox, William H., Manchester, assignor to Eccles Rubber and Cycle Company, Limited, Eccles, England. Ball-making machine	637,372	Nov. 21	2223	478	89	1405
Coy, Commodore P. (See Frazier and Coy.)						
Coyim, Seeho J., Chihuahua, Mexico. Seeder	632,645	Sept. 5	785	182, 183, 184	88	1863
Coyte, Joseph S., New York, N. Y. Watch-guard for pockets	617,674	Jan. 10	1535	348	86	319
Cozatt, J. J. (See Newcomb, William W., assignor.)						
Crabb, James N., Indianapolis, Ind. Coin-carrier	618,497	Jan. 31	3140	694	86	674
Crabb, Robert. (See Clarke, Alexander, assignor.)						
Crabbs, George D., Hartwell, and W. H. Pendery, assignors to Philip Cary Manufacturing Company, Lockland, Ohio. Ready-made roofing	636,022	Oct. 31	3854	886	89	819
Crabill, Joseph R., La Harpe, Ill. Stuffing-box for water-gages	624,305	May 2	668	146	87	828
Crabtree, Charles B., Manchester, Ill. Stalk rake and burner	632,045	Aug. 29	4288	963, 964	88	1627
Craddock, Thomas, Providence, R. I. Key-fastener	619,035	Feb. 7	455	95	86	898
Crafton, Tilman L., assignor of two-thirds to J. W. and E. M. Holmes, Batesville, Ark. Seed-planter and fertilizer-distributer	620,570	Mar. 7	30	6	86	1508
Crafts, Francis H., assignor to Crafts Machine and Tool Company, Buffalo, N. Y. Speed-changing driving mechanism for lathes	622,329	Apr. 4	231	52	87	44
Crafts Machine and Tool Company. (See Crafts, Francis H., assignor.)						
Cragg, George L., assignor to Western Electric Company, Chicago, Ill. Telephone-exchange system	629,957	Aug. 1	427	93	88	806
Craggs, Jesse and W., Kilbourne, Ill. Plow attachment	625,323	May 23	2504	569	87	1248
Craggs, Wesley. (See Craggs, Jesse and W.)						
Cragin, George P., Spokane, Wash. Paste-bottle	632,806	Sept. 12	1141	263	88	1948
Cragin, Morgan J., Chicago, Ill. Combined garbage-crematory and water-heater	639,533	Dec. 19	2476	571, 572	89	2387
Craig, Archibald F. (See Barclay and Craig.)						
Craig, Clarence H., Boulder, Colo. Self-feeding hammer	629,773	Aug. 1	21	6	88	725
Craig, Edward, Albion, Ill. Tire-tightener	620,744	Mar. 7	392	80	86	1578
Craig, Hannah E., administratrix. (See Craig, Warren H.)						
Craig, Isaac S., Somerville, assignor to Orpin Brothers, Boston, Mass Machine for laying reeds	629,774	Aug. 1	22	6.7	88	725
Craig, James, Jr., New York, N. Y. Charging-nozzle	619,282	Feb. 14	924	209	86	1009
Craig, James, Jr., New York, N. Y. Valve for air-motors	625,324	May 23	2505	569	87	1249
Craig, James, Jr., New York, N. Y. Reducing-valve for air-motors	625,325	May 23	2508	570	87	1249
Craig, James, Jr., New York, N. Y. Driving mechanism for self-propelled vehicles	633,687	Sept. 26	2814	654, 655	88	2298
Craig, John, London, England. Wheel-rim	619,141	Feb. 7	657	141, 142	86	940
Craig, John, Jr., London, England. Tobacco-pipe cleaner	632,445	Sept. 5	427	94	88	1790
Craig, John, Schuyler, Nebr Horse-breaking apparatus	639,215	Dec. 19	1887	435	89	2267
Craig, Lewis D., Tacoma, Wash. Making press-copies	628,698	July 11	1432	------	88	298
Craig, Rebecca A., *et al* (See Camp, Key D., assignor.)						
Craig, Warren H., deceased, Lawrence, Mass.; H. E. Craig, administratrix. Bicycle-saddle	629,956	Aug. 1	425	92	88	806
Craig, William B. (See Hopewell, John A., assignor.)						
Craine, James A., Murphysborough, Ill. Fan-motor	618,056	Jan. 24	2277	508	86	497
Cram, Alonzo W., assignor to Centrifugal Pump and Mining Company, Haverhill, Mass. Dredger and elevator	619,675	Feb. 14	1596	365	86	1139
Cram, Elijah W., deceased; G. W. Cram, Liberty, Me., and A. B. Moore, Lawrence, Mass., executors. Turbine water-wheel	617,281	Jan. 3	799	186	86	167

Alphabetical list of patentees—Continued.

Name, residence, and invention.	No.	Date.	Monthly volume. Spec.	Monthly volume. Dr'g.	Official Gazette. Vol.	Official Gazette. Page.
Cram, George M. (See Anthoine, Alfred W., assignor.)						
Cram, George W., *et al.*, executors. (See Cram, Elijah W.)						
Cram, Marshall M., Mankato, Minn. Boiler-cleaner	634,521	Oct. 10	1029	246	89	223
Cram, William E., Boston, Mass. Electric gas-lighting apparatus	631,888	Aug. 29	4000	895	88	1571
Cramer, Herbert H., Aspen, Colo. Ore-concentrator	639,920	Dec. 26	3198	734	89	2549
Cramer, Herman, Sonora, Cal. Treadle for sewing-machines	627,101	June 20	1648	360	87	1972
Cramer, James M., Santa Margarita, Cal. Carriage-shifter and line-spacer for type-writers	631,155	Aug. 15	2658	601, 602	88	1278
Cramer, Joseph C., Los Angeles, Cal. Electric water-boiler	624,306	May 2	669	147	87	828
Cramer, Walther, Hagen, Germany. Means for intercepting earth-currents in electrical traction	636,638	Nov. 7	735	160	89	1070
Cramer, William F., *et al.* (See Kline, Albert H., assignor.)						
Cramp, Joseph C., Philadelphia, Pa. Portable rammer	624,458	May 9	937	210	87	904
Cramp, Joseph C., Philadelphia, Pa. Portable rammer	624,459	May 9	939	210	87	905
Cramp, Joseph C., assignor of one-third to W. F. Rose, Philadelphia, Pa. Shaft-coupling	626,223	June 6	15	4	87	1617
Crandal, Stone & Company. (See Lester, Haviland, assignor.)						
Crandall & Co., Joseph L. (See Crandall, Joseph L., assignor.)						
Crandall, Emmet M., St. Joseph, Mo. Bell-ringer for locomotives	629,662	July 25	3173	740	88	673
Crandall, Jesse A., assignor to S. V. White, New York, N. Y. Game-board	633,077	Sept. 12	1612	375	88	2040
Crandall, Joseph L., assignor to J. L. Crandall & Co., Providence, R. I. Padlock	618,561	Jan. 31	3253	722	86	695
Crandall, Lyman E., assignor to Watson Automatic Seat Post Company, New York, N. Y. Bicycle seat-post	620,422	Feb. 28	2948	676	86	1437
Crane, Benjamin C., Montesano, Wash. Guard for bicycles	626,145	May 30	4083	931	87	1567
Crane, Benjamin C., Montesano, Wash. Fire-hose nozzle	626,596	June 6	677	156	87	1746
Crane Buckle Company. (See Crane, Newton, assignor.)						
Crane & Company. (See Ramsey, James A., assignor.)						
Crane, David, Rutland, Vt. Guard-rail chair	621,490	Mar. 21	1761	393	86	1867
Crane, David O. (See Kay, Henry T., assignor.)						
Crane Elevator Company. (See Reynolds, George H., assignor.)						
Crane, Frederick L., Malden, Mass. Hand-extender	623,235	Apr. 18	1921	441	87	403
Crane, George N. (See Crane, William E. and G. N.)						
Crane, Henry C., assignor of two-thirds to R. J Sankey, London, England, and S. Norris, Bristol, R. I. Resilient tire for wheels of road-vehicles	633,429	Sept 19	2328	549	88	2191
Crane, Henry M. (See Wales and Crane.)						
Crane, Henry M., assignor to American Bell Telephone Company, Boston, Mass. Telephone central-office circuit	620,745	Mar. 7	393	80	86	1578
Crane, Henry M., Boston, and T. C. Wales, Jr., Newton, assignors to American Bell Telephone Company, Boston, Mass. Telephone toll-circuit	626,146	May 30	4084	931	87	1567
Crane, James E., Middlebury, Vt. Separator for beehive honey-sections	624,438	May 2	898	203	87	874
Crane, James L., Cleveland, Ohio. Store-front and show-case	624,460	May 9	941	211	87	905
Crane, James S., Dayton, Ohio, assignor, by mesne assignments, to National Cash Register Company, Jersey City, N. J. Cash-register	627,224	June 20	1856	406, 407	87	2012
Crane, Newton, Newton, Mass., assignor to Crane Buckle Company, Portland, Me. Fastener or clasp	632,225	Aug 29	4625	1042	88	1693
Crane, Richard T., Jr., Chicago, Ill. Electric illuminated clock-dial	618,646	Jan. 31	3400	757	86	724
Crane, William E., Waterbury, Conn. Vertical engine	626,368	June 6	299	68	87	1672
Crane, William E. and G. N., Camden, Me. Door-securer	633,078	Sept 12	1613	375	88	2040
Craney, Thomas, Bay City, Mich. Brine-evaporator	626,971	June 13	1410	311	87	1906
Craney, Thomas, Bay City, Mich. Electrolytic apparatus for deposition of metals from solutions	626,972	June 13	1411	312	87	1906
Craney, Thomas, Bay City, Mich. Electrometallurgical process of extracting native copper	636,321	Nov. 7	159	35	89	953
Cranford, John I., assignor to F. K. Bowers, Baltimore, Md. Fire-escape	629,548	July 25	2974	694	88	635
Crank, Albert F. (See Dolley and Crank.)						
Cranston, Robert D., and S. M. Williams, San Francisco, Cal. Coin controlled and registering telephone apparatus	619,868	Feb. 21	1987	451, 452	86	1241
Cranston, Thomas J., Fownhope, assignor to Era Incandescent Oil Lamp Company, Limited, London, England. Burner for incandescent oil-lamps	631,200	Aug. 15	2730	618	88	1294
Cranston, Thomas J., Fownhope, assignor to Era Incandescent Oil Lamp Company, Limited, London, England. Incandescent oil-lamp	632,646	Sept. 5	795	184	88	1865
Crary, Madison N., Hicksville, Ohio. Thill-coupling	623,948	Apr. 25	3237	746	87	677
Crass, George F., assignor of one-half to G. W. Slocum, Ithaca, N. Y. Chain pipe-wrench	621,293	Mar. 14	1410	312	86	1787
Crastin, Cornelius. (See Baldwin and Crastin.)						
Cravath, James R., Chicago, Ill., assignor to General Electric Company, of New York. System of control for electric motors	636,023	Oct. 31	3855	886	89	820
Craven, Charles W., New York, N. Y. Coin-actuated book-receptacle	633,308	Sept. 19	2085	489	88	2144
Craw, Joseph T., Jersey City, N. J., assignor of one-half to R. P. Brown and E. L. Bailey, Philadelphia, Pa. Package-sealing device	628,771	July 11	1552	358, 359	88	323
Craw, Joseph T., Jersey City, N. J., assignor of one-half to R. P Brown and E. L. Bailey, Philadelphia, Pa. Box-sealing machine	632,103	Aug. 29	4398	987, 988	88	1648
Craw, Joseph T., Jersey City, N. J., assignor of one-half to R. P. Brown and E. L. Bailey, Philadelphia, Pa. Box-sealing machine	634,805	Oct. 10	1521	357, 358	89	319
Craw, William N. (See Austin and Craw.)						
Crawford, Alexander H., Edinburgh, Scotland. Fireproof floor for buildings, &c	621,446	Mar. 21	1673	371	86	1850
Crawford, Beverly B., assignor to J. W. Crawford, Salem, Oreg. Thill-coupling	639,714	Dec. 26	2825	652	89	2475
Crawford, Charles, Clintondale, and H. W. Bullard, assignors to Poughkeepsie Foundry and Machine Company, Poughkeepsie, N. Y. Box-making machine	629,775	Aug. 1	26	7,8	88	726
Crawford, Charles, Clintondale, and H. W. Bullard, Poughkeepsie, assignors to Poughkeepsie Foundry and Machine Company, Poughkeepsie, N. Y. Box-making machine. (Reissue)	11,776	Oct. 3	881	213	89	177
Crawford, Douglas B. (See Crawford, William H. and D. B.)						
Crawford, Ernest J., Campbell, Cal. Pump for gasolene-gas machines	634,612	Oct. 10	1191	282	89	254
Crawford, Frank, assignor to Crawford Manufacturing Company, New Brunswick, N. J. Stop mechanism for knitting-machines	619,142	Feb. 7	659	142	86	940
Crawford, George W., Larned, Kans. Coffee or tea pot	629,776	Aug. 1	31	8	88	727
Crawford, Hugh S., assignor of one-half to I. N. Long, Sumner, Mo. Corn-planter	638,799	Dec. 12	1152	257	89	2111
Crawford, John A., Allegheny, Pa. Smoke-consumer for furnaces, &c	638,800	Dec. 12	1154	257, 258	89	2111
Crawford, John W. (See Crawford, Beverly B., assignor.)						
Crawford, Joshua. (See Robinson, Ellsworth, assignor.)						
Crawford Manufacturing Company. (See Crawford, Frank, assignor.)						
Crawford, Orlin W. (See Wendling and Crawford.)						
Crawford, Perry M., Rogers, Ohio. Safe	635,666	Oct. 24	3152	726	89	669
Crawford, Theron C. (See Voelker, William L., assignor.)						
Crawford, William H., Weatherford, Tex. Quilting-frame	631,419	Aug. 22	3141	713	88	1393
Crawford, William H. and D. B., Graydon, W. Va. Framing-square	637,373	Nov. 21	2224	479	89	1405

Alphabetical list of patentees—Continued.

Name, residence, and invention.	No.	Date.	Monthly volume.		Official Gazette.	
			Spec.	Dr'g.	Vol.	Page.
Crawford, William I. (See Hinkson and Crawford.)						
Crawford, William K., assignor to A. J. Morse & Son, Boston, Mass. Diver's belt	617,675	Jan. 10	1536	349	86	319
Crawshaw, Samuel, Oamaru, New Zealand. Pipe-scraper	624,307	May 2	670	147	87	828
Cray, Edwin D., *et al.* (See Clouse, Joseph N., assignor.)						
Creamer, Henry H., Millbury, Mass. Electric block-signaling apparatus	630,974	Aug. 15	2335	532, 533	88	1216
Creasy, John, assignor of one-half to H. J. Dixon, London, England. Non-refillable bottle	632,916	Sept. 12	1349	311	88	1987
Creeden, Patrick J., Columbus, Ohio. Bicycle-lantern	626,001	May 30	3781	861	87	1514
Creedon, John J., assignor of one-half to H. W. Cooper, Moline, Ill. Hame and trace connection	617,498	Jan. 10	1208	275	86	255
Creedon, John J., assignor of one-half to H. W. Cooper, Moline, Ill. Trace connection	617,499	Jan. 10	1209	275	86	255
Creese, Alfred E., London, England. Variable-speed driving-gear	636,024	Oct. 31	3858	886	89	820
Crehore, Albert C., Hanover, N. H., and G. O. Squier, U. S. Army. Means for impressing semicycles of electromotive force on electric circuits	620,746	Mar. 7	397	81, 82	86	1579
Crehore, Albert C., Hanover, N. H., and G. O. Squier, Fortress Monroe, Va. Alternating-current range and position finder	625,647	May 23	3061	697	87	1358
Creighton, William D. (See Haines and Creighton.)						
Crenshaw, William D. (See Latimer and Crenshaw.)						
Crepar, Thomas M., Swan River, Minn. Signal-lantern	633,079	Sept. 12	1614	376	88	2040
Crepeau, Henry T., assignor to H. Campbell, Boston, Mass. Egg-beater	632,780	Sept. 12	1089	252	88	1938
Crepeau, Ovid. (See Mallon and Crepeau.)						
Crescent File Company. (See Revalk, John F., assignor.)						
Crescent Sewing Machine Company. (See Gammons, Welcome P., Jr., assignor.)						
Cress, Edward C., Pittsburg, Pa. Ironing-machine	624,755	May 9	1472	334	87	1010
Cressman, Harry R., Philadelphia, Pa. Clip for bicycle-saddles	625,873	May 30	3504	795	87	1461
Cressman, Joseph, Washington, N. J. Bicycle	636,639	Nov. 7	735	161	89	1070
Cressonnières, Anatole des and E., Brussels, Belgium. Machine for kneading soap	617,282	Jan. 3	801	186	86	158
Cressonnières, Ernest des. (See Cressonnières, Anatole des and E.)						
Crétin, Charles, St. Claude, France. Metal-cutting machine	618,952	Feb. 7	284	61	86	864
Cretors, Charles, Chicago, Ill. Bicycle attachment	618,041	Jan. 17	2247	500, 501	86	476
Creuzbaur, R. Walter, *et al.*, trustees. (See Creuzbaur, Robert, assignor.)						
Creuzbaur, Robert, assignor to G. H. Fraser and R. W. Creuzbaur, trustees, New York, N. Y. Motor	623,137	Apr. 18	1739	402	87	366
Creveling, John L., New York, N. Y. Headlight	620,.05	Feb. 28	2407	544	86	1334
Creveling, John L., New York, N. Y. Gas-tank	621,228	Mar. 14	1291	285, 286	86	1765
Creveling, John L., New York, N. Y. Electric-lighting system for cars	627,326	June 20	2054	452	87	2054
Creveling, John L., New York, N. Y. Automatic electric switch	627,686	June 27	2756	604	87	2207
Creveling, John L., New York, N. Y. Electric-lighting system for cars	628,650	July 11	1345	313, 314	88	280
Creveling, John L., New York, N. Y. Gas-lighting apparatus	629,890	Aug. 1	263	58	88	771
Creveling, John L., New York, N. Y. Electric heater	631,360	Aug. 22	3028	686	88	1371
Creveling, John L., New York, N. Y. Electric-lighting system for cars	634,286	Oct. 3	597	147	89	120
Creveling, John L., New York, N. Y. Dynamo-driving mechanism	635,750	Oct. 31	3323	767	89	716
Creveling, John L., New York, N. Y. Driving mechanism for dynamos	637,711	Nov. 21	3211	667	89	1639
Creveling, John L., New York, N. Y. Means for driving dynamos from car-axles	637,766	Nov. 28	3310	693	89	1677
Creveling, John L., New York, N. Y. Electric switch	638,705	Dec. 12	991	220	89	2079
Creveling, John L., New York, N. Y., assignor to Safety Car Heating and Lighting Company, of New Jersey. Apparatus for preventing pounding or water-hammering in circulating-pipes of heating systems	618,953	Feb. 7	285	62	86	866
Creveling, John L., New York, N. Y., assignor to Safety Car Heating and Lighting Company, of New Jersey. Headlight	620,229	Feb. 28	2623	597	86	1374
Creveling, William C., Chicago, Ill. Combined skirt and waist supporter	635,370	Oct. 24	2572	598	89	557
Criddle, Thomas B., Waxahachie, Tex. Adjustable foot-rest	619,071	Feb. 7	517	109	86	911
Cridge, Walter W., Pittsburg, Pa. Diaphragm-plate for phonographs, &c	634,326	Oct. 3	682	165	89	137
Crimmin, Willis G., North Sullivan, Me. Separable fastening	626,973	June 13	1413	312	87	1907
Crippen, Henry M., Athens, Ohio. Convertible agricultural boiler	619,283	Feb. 14	927	209, 210	86	1010
Crisler, Joseph L. (See Flesher and Crisler.)						
Crisler, Joseph L., Alert, Okla. Ter. Tail-gate	624,756	May 9	1474	335	87	1010
Crist, Charles V., Cincinnati, M. Schenck and A. B. Mudgett, Middletown, Ohio, assignors, by mesne assignments, to Union Bag and Paper Company, Chicago, Ill. Paper-bag machine	629,985	Aug. 1	473	103, 104, 105	88	817
Crist, Charles V., and M. Schenck, Middletown, Ohio, assignors, by mesne assignments, to Union Bag and Paper Company, Chicago, Ill. Paper-bag machine	629,986	Aug. 1	482	105, 106	88	818
Crist, William E, assignor to Glamorgan Pipe and Foundry Company, Lynchburg, Va. Gate valve	627,394	June 20	2204	484	87	2082
Crist, William E., assignor to Glamorgan Pipe and Foundry Company, Lynchburg, Va. Sliding-valve indicator	627,395	June 20	2206	485	87	2083
Crist, William H., Williamsport, Pa. Hook and eye	625,022	May 16	1956	438	87	1120
Criswick, Theophilus, Bridgend, England. Window-lock	623,236	Apr. 18	1922	441	87	403
Crittenden, Mason H., assignor to Crittenden Roofing and Manufacturing Company, Minneapolis, Minn. Means for closing light-wells	616,902	Jan. 3	66	14	86	15
Crittenden, Mason H., assignor to Crittenden Roofing and Manufacturing Company, Minneapolis, Minn. Fireproof window	633,120	Sept. 19	1734	407	88	2074
Crittenden Roofing and Manufacturing Company. (See Crittenden, Mason H., assignor.)						
Crocheron, Edward, Detroit, Mich. System for extinguishing fires	638,911	Dec. 12	1346	307	89	2149
Crocker, Adams, and J. E. Morse, Fitchburg, Mass. Roll	631,106	Aug. 15	2576	583	88	1262
Crocker, Charles H., Portland, Me. Heating apparatus	623,138	Apr. 18	1747	402	87	368
Crocker, Francis H., Kansas City, Mo. Cabinet-scraper	633,571	Sept. 26	2589	606	88	2257
Crocker, Fred A., Lincoln, Me. Cow-tail holder	624,461	May 9	942	211	87	905
Crocker, Fred A., Lincoln, Me. Ratchet-wrench	625,149	May 16	2182	496	87	1162
Crocker, Fredric C. (See Bunyea, Walter J., assignor.)						
Crocker, Ira, Portland, Me. Anchor	626,224	June 6	16	4	87	1618
Crocker, James A., Boston, Mass., assignor to National Rolling Screen Company, Boston, Mass., and Portland, Me. Window-screen	628,075	July 4	212	48	88	43
Crocker, John C., Pardoe, assignor of two-thirds to J. W. Bell, Mercer county, Pa. Back-pedaling brake	623,949	Apr. 25	3238	746	87	677
Crocker, Ralph W., assignor to Yakima Valley Fruit Company, Seattle, Wash. Cover-fastener for vessels	639,534	Dec. 19	2478	572	89	2387
Crocker, Samuel, Oklahoma, Okla. Ter. Head-canopy	616,903	Jan. 3	68	14, 15	86	15
Crocker, Walter E., assignor to W. & S. Blackinton, Providence, R. I. Solder-cutting machine	629,777	Aug. 1	33	8, 9	88	727

Alphabetical list of patentees—Continued.

Name, residence, and invention.	No.	Date.	Monthly volume. Spec	Monthly volume. Drg.	Official Gazette. Vol.	Official Gazette. Page
Crocker-Wheeler Electric Company. (See Dunn, Gano S., assignor.)						
Crockett, Renwick E., Michigan City, Ind. Carbon-brush holder	622,609	Apr. 4	759	176 177	87	144
Crofford, Charles B., Vicksburg, Miss. Combined scale and scoop	634,747	Oct. 10	1438	338	89	302
Crofford, Charles B., assignor of one-half to A. E. Enochs, Vicksburg, Miss. Shaving-cup	625,719	May 23	3179	722	87	1380
Croissant, Frederick E., *et al.* (See Bishop, Marshall M., assignor.)						
Cromer, Leslie, *et al.* (See Martz, Randolph N., assignor.)						
Cromie, John. (See Barber and Cromie.)						
Crompton & Knowles Loom Works. (See Arthur, William F., assignor.)						
Crompton & Knowles Loom Works. (See Bardsley, Henry, assignor.)						
Crompton & Knowles Loom Works. (See Clark, John A., assignor.)						
Crompton & Knowles Loom Works. (See Clark and Cyr, assignors.)						
Crompton & Knowles Loom Works. (See Crompton, Randolph, assignor.)						
Crompton & Knowles Loom Works. (See Crompton and Wyman, assignors.) (Reissue.)						
Crompton & Knowles Loom Works. (See Hutchins, George F., assignor.)						
Crompton & Knowles Loom Works. (See Kelmel, Albert E., assignor.)						
Crompton & Knowles Loom Works. (See Morell, Alfred, assignor.)						
Crompton & Knowles Loom Works. (See Renz, Eugene, assignor.)						
Crompton & Knowles Loom Works. (See Stafford, George W., assignor.)						
Crompton & Knowles Loom Works. (See Stafford and Kelmel, assignors.)						
Crompton & Knowles Loom Works. (See Wattie, William, assignor.)						
Crompton & Knowles Loom Works. (See Wyman, Horace, assignor.)						
Crompton & Knowles Loom Works. (See Wyman and Clark, assignors.)						
Crompton, Randolph, assignor to Crompton & Knowles Loom Works, Worcester, Mass. Loom	630,289	Aug. 1	1025	226	88	925
Crompton, Randolph, and H. Wyman, assignors to Crompton & Knowles Loom Works, Worcester, Mass. Loom. (Reissue)	11,762	Aug. 1	1075	235 236	88	934
Cromwell, John C. (See Garrett, William, assignor.)						
Cromwell, John C., assignor of one-half to W. Garrett, Cleveland, Ohio. Billet-conveyer	633,572	Sept. 26	2590	607	88	2257
Cromwell, John C., assignor of one-half to W. Garrett, Cleveland, Ohio. Rod-reel	636,242	Nov. 7	20	5	89	929
Cromwell, John C., assignor of one-half to W. Garrett, Cleveland, Ohio. Rod-reel	636,243	Nov. 7	21	5	89	929
Cron, Peter L., Elizabeth, N. J. Refrigerator	617,144	Jan. 3	552	130 131	86	108
Croneau, Alphonse L., Paris, France. Portable electrical drilling-machine	634,165	Oct. 3	339	86	89	70
Cronin, Frederick J., Buffalo, N. Y. Door	619,676	Feb. 14	1598	366	86	1140
Cronin, Frederick J., Buffalo, N. Y. Clamp	619,869	Feb. 21	1992	452 453	86	1242
Cronin, Frederick J., Buffalo, N. Y. Door	632,700	Sept. 12	939	218 219	88	1907
Cronin, John P., Paterson, N. J. Creel-frame	626,974	June 13	1414	312 313	87	1907
Cronk Hanger Company. (See Cronk, William, assignor.)						
Cronk, William, Montour Falls, assignor to Cronk Hanger Company, Elmira, N. Y. Pliers	632,835	Sept. 12	1195	272	88	1960
Crook, Edwin E., Indianapolis, Ind. Hydrocarbon-burner	623,518	Apr. 25	2433	558	87	526
Crook, James E., assignor of one-third to W. M. Pugh, Kenosha, Wis. Staple-lock	625,290	May 16	2438	555	87	1209
Crook, John, and E. Whitehead, Surrey Hills, New Zealand. Sewing-machine for sewing mouths of bags	632,676	Sept. 5	871	203 204	88	1882
Crosby, Adelbert W., Geneseo, Kans. Portable igniter plant	636,244	Nov. 7	22	6	89	929
Crosby, Albert B. (See Jenkins, John C., assignor.)						
Crosby, Charles E., assignor of two-thirds to J. B. Harvey and H. C. Jordan, Indianapolis, Ind. Bolt and nut lock	639,715	Dec. 26	2826	652	89	2475
Crosby, Hartwell A., assignor of one-half to W. L. Eaton, Calais, Me. Mucilage-bottle	618,845	Feb. 7	47	10	86	813
Crosby & Mayer Company. (See Crosby and Ehler, assignors.)						
Crosby, Oliver, St. Paul, Minn. Craue-derrick	620,571	Mar. 7	31	6,7	86	1508
Crosby Steam Gage and Valve Company. (See Hughes, John, assignor.)						
Crosby Steam Gage and Valve Company. (See Lane, Frederick, assignor.)						
Crosby, William H., and E. Ehler, assignors to Crosby & Mayer Company, Buffalo, N. Y. Bicycle-fitting	638,865	Dec. 12	1258	285	89	2131
Crosier, Leavett E., Hadley, Mass. Handle-grip for golf-sticks, fishing-rods, &c	621,993	Mar. 28	2720	614	86	2068
Croskey, John H. (See Morse, George W., assignor.)						
Crosley, Benjamin D. (See Marsh, Crosley, and Bruner.)						
Cross, Albert C. (See Vader and Cross.)						
Cross, Anson K., Boston, Mass. Bicycle-seat	620,284	Feb. 28	2716	623	86	1394
Cross, Charles F. (See Weber and Cross.)						
Cross, Clarence W., Grinnell, Iowa. Clothes-pounder	628,076	July 4	214	49	88	43
Cross, Ella D. (See Dupaw, Josiah, assignor.)						
Cross, Eugene, Griffith, Miss. Invoice-file	635,237	Oct. 17	2322	542	89	492
Cross, Frank L., Niagara Falls, N. Y., assignor to Standard Machinery Company, Mystic, Conn. Sheet-feeding machine	633,573	Sept. 26	2593	608	88	2258
Cross, Frank L., assignor to Standard Machinery Company, Mystic, Conn. Sheet-feeding machine	637,324	Nov. 21	2129	459	89	1386
Cross, George F., San Antonio, Tex. Press	633,812	Sept. 26	3016	701	88	2341
Cross, Herbert E. (See Bigsby and Cross.)						
Cross, James W., Fall River, Mass. Heel	627,984	July 4	48	9	88	11
Cross, Mary J., De Witt, Iowa. Fruit-gatherer	638,912	Dec. 12	1347	307	89	2149
Cross, Ranslar R., Oneonta, N. Y. Axle-box	636,955	Nov. 14	1397	297	89	1229
Crossingham, James H., Philadelphia, Pa. Card holder or backing	626,459	June 6	448	106	87	1701
Crossland, Robert M., Washington, Pa. Gas-burner	623,237	Apr. 18	1923	442	87	403
Crossley, Edward, assignor of one-half to H. H. Boyd, Erie, Pa. Apparatus for raising fish-nets	625,874	May 30	3506	795 796	87	1461
Crossley & Sons, John, *et al.* (See Cocker, John, assignor.)						
Crossley, William H., assignor of one-half to G. W. Mifflin, Bloomsburg, Pa. Bicycle-brake	619,395	Feb. 14	1108	251	86	1046
Crossman, Robert L., assignor of one-third to Huber Printing Press Company, Taunton, Mass. Mechanical movement	628,220	July 4	480	115 116	88	96
Croston, Thomas, Hoquiam, Wash. Rotary engine	633,813	Sept. 26	3017	701	88	2341
Croswell, Samuel P., Medford, Mass. Valve	622,418	Apr. 4	390	90	87	72
Crouch, Walker L., assignor to Pierce Crouch Engine Company, New Brighton, Pa. Igniter for gas-engines	619,396	Feb. 14	1109	251	86	1046
Crouse, Clarence B., *et al.* (See Merritt, Arthur A., assignor.)						
Crouse, Clarence B., *et al.* (See Towns and Barrett, assignors.)						
Crouse, George C., and J. J. Foley, West Union, W. Va. Regulator and automatic shut-off	638,217	Dec. 5	16	5,6	89	1870

Alphabetical list of patentees—Continued.

Name, residence, and invention.	No.	Date.	Monthly volume. Spec.	Monthly volume. Drg.	Official Gazette. Vol.	Official Gazette. Page.
Crouse, J. H. (See Hamilton, Miles, assignor.)						
Crow, Theodore, Cameron, W. Va. Planter	621,633	Mar. 21	2010	448, 449	86	1915
Crowden, Charles T., Beeston, England. Apparatus for forming tubular joints	633,430	Sept. 19	2329	549, 550	88	2191
Crowder, Benjamin F., Henry Station, Tenn. Churn	637,956	Nov. 28	3668	770	89	1750
Crowder, John B., Talucah, Ala. Display-rack	623,396	Apr. 18	2217	509	87	463
Crowder, Thomas J., Staunton, Va. Post-office depository	618,846	Feb. 7	48	10, 11	86	813
Crowdus Company. (See Crowdus, Walter A., assignor.)						
Crowdus, Walter A., Chicago, Ill. Secondary battery and electric lamp	618,057	Jan. 24	2279	508, 509	86	498
Crowdus, Walter A., assignor to Crowdus Company, Chicago, Ill. Secondary battery	622,124	Mar. 28	2942	667	86	2112
Crowe, Frederick C., assignor of one-third to A. J. J. Miller, Chicago Heights, Ill. Cotton-seed cleaner	618,785	Jan. 31	3637	813	86	771
Crowe, George W., assignor to Columbia Encaustic Tile Company, Anderson, Ind. Tile	627,327	Juue 20	2056	452	87	2054
Crowe, John M., Fort Wayne, Ind. Cuff-holder	617,924	Jan. 17	2044	457	86	439
Crowell, Charles H., Lynn, assignor to Carter, Rice & Company, Boston, Mass. Machine for applying edge-covering strips to tablets	619,870	Feb. 21	1996	453	86	1243
Crowell, Charles H., Lynn, assignor to Carter, Rice & Company, Boston, Mass. Machine for cutting cloth into predetermined lengths	630,863	Aug. 15	2123	481, 482	88	1174
Crowell, Edward E., Waterville, Me. Brake-beam holder	640,105	Dec. 26	3539	813	89	2619
Crowell, Florence F., *et al.* (See Smith, David D., assignor.)						
Crowell, Henry M., Maplewood, N. J. Hydraulic rocking-press	634,719	Oct. 10	1383	326	89	293
Crowell, Joseph E., Paterson, N. J. Desk	637,325	Nov. 21	2135	460	89	1387
Crowell, Luther C., New York, N. Y. Web feeding and pasting mechanism	624,308	May 2	671	147, 148	87	828
Crowell, Luther C., assignor to R. Hoe, T. H. Mead, and C. W. Carpenter, New York, N. Y. Tympan-shifting mechanism	618,058	Jan. 24	2281	509, 510, 511	86	498
Crowell, Luther C., assignor to R. Hoe, T. H. Mead, and C. W. Carpenter, New York, N. Y. Bed-and-cylinder printing-machine	622,125	Mar. 28	2944	667, 668	86	2112
Crowell, Luther C., assignor to R. Hoe, T. H. Mead, and C. W. Carpenter, New York, N. Y. Bed-and-cylinder printing-machine	622,126	Mar. 28	2948	668	86	2113
Crowell, Luther C., assignor to R. Hoe, T. H. Mead, and C. W. Carpenter, New York, N. Y. Bed-and-cylinder printing-machine	622,127	Mar. 28	2955	669	86	2115
Crowell, Luther C., assignor to R. Hoe, T. H. Mead, and C. W. Carpenter, New York, N. Y. Wrapping-machine	622,841	Apr. 11	1188	276, 277, 278	87	244
Crowell, Luther C., assignor to R. Hoe, T. H. Mead, and C. W. Carpenter, New York, N. Y. Folding and wrapping machine	626,674	June 13	827	189, 190	87	1794
Crowell, Luther C., assignor to R. Hoe, T. H. Mead, and C. W. Carpenter, New York, N. Y. Feeding mechanism	626,675	June 13	833	190, 191	87	1795
Crowell, Luther C., assignor to R. Hoe, T. H. Mead, and C. W. Carpenter, New York, N. Y. Feeding mechanism	626,676	June 13	838	191	87	1796
Crowell, Luther C., assignor to R. Hoe, T. H. Mead, and C. W. Carpenter, New York, N. Y. Paper-taking pin	630,864	Aug. 15	2126	482	88	1175
Crowell, Luther C., assignor to R. Hoe, T. H. Mead, and C. W. Carpenter, New York, N. Y. Wrapping-machine	637,374	Nov. 21	2225	479, 480	89	1405
Crowell, Luther C., and T. M. North, assignors to R. Hoe, T. H. Mead, and C. W. Carpenter, New York, N. Y. Tympan-shifting mechanism	618,059	Jan. 24	2291	511, 512, 513	86	500
Crowley, Jeremiah E., Owen, Ill. Sharpener for knives for band-cutters	617,318	Jan. 10	870	204	86	189
Crown Cork and Seal Company. (See Painter, William, assignor.)						
Crown Cork Company. (See Moore, Elbert K., assignor.)						
Crown Self-Opening Can Company. (See Witkowski, Louis C., assignor.)						
Crowther, Henry W. (See Kirby and Crowther.)						
Crowther, John H., Auburn, N. Y. Card-clothing for fancy-rolls	632,898	Sept. 12	1321	303	88	1982
Crowther, Joseph W., Kirkheaton, England. Hank-dyeing machine	629,715	July 25	3272	763	88	691
Crozier, Arthur W., and G. Smith, New York, N. Y. Elastic-tread horseshoe	617,319	Jan. 10	871	205	86	189
Crozier, Thomas W., assignor of one-half to E. S. Gale, Roanoke, and M. G. McClung, Salem, Va. Nut-lock	627,953	June 27	3231	708	87	2305
Cruickshank, James. (See Smith, Rudolph C., assignor.)						
Cruickshank, James, assignor of one-half to F. Young, Woodland, Cal. Hay-press	619,725	Feb. 21	1720	392, 393	86	1189
Cruise, Daniel, New York, N. Y. Horseshoe-pad	620,019	Feb. 21	2247	510	86	1289
Crum, Edward A., assignor to two-thirds to J. L. Glenn, Jr., and J. M. McDonnell, Clarksville, Tenn. Grain-meter	626,975	June 13	1416	313	87	1907
Crumb, Hiland F. (See Erkenbreck, Frank, assignor.)						
Crumb, John H., Osage City, Kans. Device for gathering fruit	624,757	May 9.	1475	335	87	1011
Crumley, E. S., *et al.* (See Mason, William R., assignor.)						
Crump, George M., Cohoes, N. Y. Reversible check-valve	631,036	Aug. 15	2450	556	88	1238
Crump, John W. (See Kelso and Wilbur, assignors.)						
Cruse, Henry, Manchester, England. Steam generator and superheater	638,006	Nov. 28	3775	793	89	1771
Crutchfield, Charles P., assignor of one-half to J. I. Pitman, Philadelphia, Pa. Bicycle-gear-supporting mechanism	622,758	Apr. 11	1035	240	87	216
Crutchfield, George P. (See Collins, John W. B., assignor.)						
Crutchlow, William, assignor to H. Rigby, Paterson, N. J. Knuckle	625,150	May 16	2183	496	87	1162
Cruttwell, Arthur C., assignor of one-half to F. H. Edwards, St. Louis, Mo. Necktie-holder	635,371	Oct. 24	2573	598	89	557
Cryderman, Jacob, Milwaukee, Wis., assignor to Vaughn Machine Company, Portland, Me. Leather-splitting machine	618,060	Jan. 24	2301	514	86	501
Csorba, Andreas, Miskolcz, Austria-Hungary. Adjustable scaffold and scaffold-frame	631,954	Aug. 29	4114	923, 924	88	1593
Cuadros, Manuel J , Lima, Peru. Apparatus for firing ordnance on ships	626,002	May 30	3782	861	87	1514
Cuba, Ambrose, *et al.* (See Washington, Fortune, assignor.)						
Cuba, Silas, *et al.* (See Washington, Fortune, assignor.)						
Cuddeback, Edwin E., *et al.* (See Wescott, Pulaski D., assignor.)						
Cuddeback, John P. (See Lovejoy, George W., assignor.)						
Cudner, Gustavis L., assignor of seven-eighths to E. L. Zalinski and H. Tweddle, New York, N Y. Dam	629,028	July 18	2017	469	88	430
Culin, Curtis G. (See Francis, Harry H., assignor.)						
Cull, Henry, Chicago, Ill. Material-elevator	623,990	May 2	65	14	87	714
Cullis, John M., Yonkers, N. Y., assignor to Ottawa Truss and Surgical Manufacturing Company, Ottawa, Canada. Truss	618,334	Jan. 24	2810	623	86	596
Cullison, Obediah. (See Gardam and Hull, assignors.)						
Cullison, Obediah, York, Pa. Automatic fender	625,834	May 30	3424	777, 778	87	1445

Alphabetical list of patentees—Continued.

Name, residence, and invention.	No.	Date.	Monthly volume.		Official Gazette.	
			Spec.	Dr'g.	Vol.	Page.
Culmann, Charles, Hamburg, Germany. Purifying oils	619,545	Feb. 14	1363	314	86	1096
Culmer, George C. K. (See Culmer, George F. and G. C. K.)						
Culmer, George F. and G. C. K., Chicago, Ill. Making asphaltic fluxes	635,429	Oct. 24	2734	627	89	589
Culmer, George F. and G. C. K., Chicago, Ill. Asphaltic flux	635,430	Oct. 24	2738	627	89	589
Culton, James, Bloomington, Ill. Car-coupling	632,701	Sept. 12	942	219	88	1907
Culver, Augustus C., assignor to C. H. Berkey, Grand Rapids, Mich. Joint for parts of machinery	621,294	Mar. 14	1412	312	86	1788
Culver, Augustus C., assignor to C. H. Berkey, Grand Rapids, Mich. Joint for parts of machinery	629,549	July 25	2975	695	88	635
Culver, Clarence, assignor of one-half to S. W. Harvey, Constantine, Mich. Wagon-jack	635,304	Oct. 24	2451	570	89	533
Culver, Frederick S., Taunton, Mass. Roving stop-motion for spinning-machines	629,495	July 25	2878	668	88	615
Culver, George A., Emerson, Iowa. Rotary engine	620,106	Feb. 28	2409	544	86	1334
Culver, James H., San Francisco, Cal. Calipers	617,082	Jan. 3	426	103	86	82
Culver, Lucius L., deceased, St. Louis, Mo.; M. Culver, executrix. Adjustable water-tank for stoves or ranges	640,106	Dec. 26	3540	813 814	89	2619
Culver, Mary, executrix. (See Culver, Lucius L.)						
Cumberland Iron and Steel Shafting Company of Allegany County, Maryland. (See Muncaster, Walter J., assignor.)						
Cumberson, Victor, New York, N. Y. Mechanical instrument for type-writers	626,056	May 30	3887	883	87	1532
Cuming, Arthur J., Christchurch, New Zealand. Spring-frame for bicycles	633,121	Sept. 19	1735	408	88	2075
Cummer, Eliza E. (See Cummer, Franklin D., assignor.)						
Cummer, Franklin D., assignor to F. D. Cummer & Son Company, Cleveland, Ohio. Drying-kiln	633,122	Sept. 19	1736	408 409	88	2075
Cummer, Franklin D., assignor to E. E. Cummer, Cleveland, Ohio. Drying-kiln	635,238	Oct. 17	2323	543	89	492
Cummer, Franklin D., deceased; W. M. Cummer, administrator, assignor to F. D. Cummer & Son Company, Cleveland, Ohio. Mechanical drier	633,123	Sept. 19	1738	409 410	88	2075
Cummer, Franklin D., deceased; W. M Cummer, administrator, assignor to F. D. Cummer & Son Company, Cleveland, Ohio. Mechanical drier	634,199	Oct. 3	393	101 102	89	81
Cummer, Franklin D., deceased; W. M. Cummer, administrator, assignor to F. D. Cummer & Son Company, Clevelaud, Ohio. Drying various materials	634,200	Oct. 3	396	102	89	82
Cummer, Will M., Cleveland, Ohio. Mixing-machine	633,124	Sept. 19	1741	410	88	2076
Cummer, William M., administrator. (See Cummer, Franklin D.)						
Cumming, John F., Worcester, Mass. Handcuff	628,139	July 4	345	82	88	70
Cummings, Carman E. (See Erstad, Severin, assignor.)						
Cummings, Charles, Oakland, assignor to Pneumatic Power Company, San Francisco, Cal. Controlling mechanism for fluids or gases under pressure	635,127	Oct. 17	2137	500	89	457
Cummings, Charles, Oakland, assignor to Pneumatic Power Company, San Francisco, Cal. Unloading means for air-compressors	635,667	Oct. 24	3153	727	89	669
Cummings, Charles L., New York, N. Y. Lift for asphalt, &c	638,626	Dec. 5	829	178 179	89	2025
Cummings, George W., New York, N. Y. Rotary stenciling-machine	628,651	July 11	1348	314	88	280
Cummings, Henry H., Malden, Mass. Speed-changer	623,139	Apr. 18	1748	402 403	87	368
Cummings, Henry H., Malden, Mass. Drilling-machine	623,140	Apr. 18	1750	403 404	87	369
Cummings, Henry H., Malden, Mass., assignor to A. L. Prescott, New York, N. Y. Making spikes	618,786	Jan. 31	3638	813	86	771
Cummings, Henry H., Malden, Mass., assignor to A. L. Prescott, Passaic, N. J. Spike	627,819	June 27	2990	653	87	2254
Cummings, Horace S. (See Hunter, George W., assignor.)						
Cummings, James K., Ladonia, Tex. Coffee-pot	630,666	Aug. 8	1793	404	88	1084
Cummings, John L., Mausfield, Pa. Burglar-alarm	622,037	Mar. 28	2792	629	86	2083
Cummings, Lincoln C., Portland, Me. Truck for cars or other vehicles	618,028	Jan. 17	2219	495	86	471
Cummings, Montrovill D., Columbus, Ohio. Mail-sack-delivering mechanism	618,397	Jan. 31	2958	654 655	86	640
Cummings, Rodrick C., Malone, N. Y. Cattle-guard	630,329	Aug. 8	1125	246	88	959
Cunard, Elbert M., Westville, and C. C. Hannold, Woodbury, N. J. Folding box	628,196	July 4	441	105	88	89
Cuneo, Stefano, *et al.* (See Demaria and Ranzini, assignors.)						
Cunliffe, Cicero M., assignor to American Blower Company, Detroit, Mich. Steam-pipes for heating dry-kilns	626,410	June 6	366	86	87	1684
Cunniff, Edward. (See Cunniff, John V. and E.)						
Cunniff, Edward. (See Cunniff and Kerrigan.)						
Cunniff, John V. and E., New Bedford, Mass., assignors to Draper Company, Portland, Me., and Hopedale, Mass. Filling-carrier for loom-shuttles	628,772	July 11	1555	359	88	323
Cunniff, John V and E., and H. J. Kerrigan, New Bedford, Mass., assignors to Draper Company, Portland, Me., and Hopedale, Mass. Loom-temple	639,153	Dec. 12	1755	405	89	2228
Cunningham, Andrew C. (See Stowell and Cunningham.)						
Cunningham, Bruce, Liberty, Oreg. Fruit-evaporator	630,187	Aug. 1	852	183	88	891
Cunningham, Bruce, Liberty, Oreg. Fruit-evaporator	636,245	Nov. 7	25	6	89	930
Cunningham, Edward B., and F. C. Thiele, Sugarland, Tex. Delinting cotton-seed	637,089	Nov. 14	1652	358	89	1279
Cunningham, Edward B., and F. C. Thiele, Sugarland, Tex. Synthetic adhesive gum	637,090	Nov. 14	1653		89	1279
Cunningham, Emma E., Newton, Mass. Garment-drafting apparatus	622,419	Apr. 4	392	90, 91	87	73
Cunningham, James E., Worcester, Mass. Car-coupling	628,621	July 11	1267	295	88	266
Cunningham, James J., and E. H. Mullen, Lynn, assignors to J. Q. Bennett, trustee, Cambridge, Mass. Ballot	621,634	Mar. 21	2012	449	86	1916
Cunningham, John, assignor of one-half to J. Carney, Pittsburg, Pa. Rail-joint	631,248	Aug. 15	2829	638	88	1314
Cunningham, Luther, San José, and H. M. Barngrover, Los Gatos, Cal. Fruit-grader	627,254	June 20	1906	420	87	2023
Cunningham, Mary S., New York, N. Y. Device for teaching computation	629,891	Aug. 1	264	59	88	772
Cunningham, Matthias F., Waltham, Mass. Bicycle-lock	620,700	Mar. 7	301	60	86	1559
Cunningham, Patrick, assignor of three-fourths to F. D. Stanley, New Bedford, and W. A. Whittlesey, Pittsfield, Mass. Steam-engine	631,777	Aug. 29	3818	850 851	88	1535
Cunningham, Walter C., St. Paul, Minn. Tobacco-pipe	628,395	July 4	834	194	88	159
Cunningham, William J. (See Emery and Cunningham.)						
Cunningham, William R., and T. Major, Frankfort, Ind. Voting-machine	623,991	May 2	67	15, 16	87	715
Cunnius, Calvin T. (See Anthony and Cunnius.)						
Cuntz, Hermann F., Hartford, Conn., assignor to American Bicycle Company, Jersey City, N. J. Gear-cutting machine	638,563	Dec. 5	703	149 150	89	2000
Curley, Patrick H., North Andover, assignor of three-fourths to J. F. Finn, W. E. Ryan, and J. F. Roberts, Lawrence, Mass. Winding-machiue	625,305	May 16	2463	560	87	1214
Curran, Arthur D., *et al.* (See Huff, Henry H., assignor.)						
Curran, Charles H., assignor of one-half to J. J. Curran, Holyoke, Mass. Inhaler	631,621	Aug. 22	3516	792	88	1468
Curran, James I., *et al.* (See Humphrey, John D., assignor.)						
Curran, James J. (See Curran, Charles H., assignor.)						
Curran, John E., *et al.* (See Humphrey, John D, assignor.)						
Curran, Philip B., Philadelpbia, Pa. Lamp	626,976	June 13	1420	313	87	1908
Curran, Pbilip B., Philadelphia, Pa. Gas-burner	638,044	Nov. 28	3839	807	89	1784

Alphabetical list of patentees—Continued.

Name, residence, and invention.	No.	Date.	Monthly volume.		Official Gazette.	
			Spec.	Dr'g.	Vol.	Page.
Curran, Thomas, assignor to E. Sullivan, New York, N. Y. Studding or support for partition-walls	623,354	Apr. 18	2146	493	87	447
Currie, George E. (See Currie, Thomas A., assignor.)						
Currie, Thomas A., assignor to G. E. Currie, Detroit, Mich. Machine for dressing stone	634,938	Oct. 17	1753	416, 417	89	381
Currier, Guy W., *et al.* (See Baker, James D., assignor.)						
Currin, John, Providence, R. I. Mounting for rimless eyeglasses or spectacles	616,904	Jan. 3	71	15	86	16
Currin, John, Providence, R. I. Mounting for lenses of frameless eyeglasses or spectacles	625,245	May 16	2352	535	87	1194
Currin, John, Providence, R. I. Attachment for eyeglasses or spectacles	627,102	June 20	1650	361	87	1972
Curry, James H. (See Wright and Curry.)						
Curry, John F., assignor of one-fifth to E. M. Sayers and J. F. Ball, Wilmington, Del. Water-motor	621,036	Mar. 14	958	208	86	1699
Curtain Supply Company. (See Emery, Plato G., assignor.)						
Curtin, J. Clark. (See Molet, Alfred, assignor.)						
Curtin, Michael J., Carlton, Victoria. Plug or wedge for fixing flashings of buildings, &c.	624,758	May 9	1476	335	87	1011
Curtis, Andrew J., Monroe, assignor of one-half to C. A. McKenney, Winterport, Me. Safety-hook	621,295	Mar. 14	1413	313	86	1788
Curtis, Barton O., Media, Pa. Car construction	638,380	Dec. 5	374	78	89	1937
Curtis, Benjamin F., assignor of one-half to F. Wesel, New York, N. Y. Stereotype-casting box	620,230	Feb. 28	2625	597	86	1375
Curtis, Benjamin F., assignor of one-half to F. Wesel, New York, N. Y. Machine for trimming and finishing stereotype-plates	620,890	Mar. 14	657	143, 144	86	1644
Curtis, Charles G., New York, N. Y. Apparatus for generating mechanical power	635,919	Oct. 31	3654	843, 844	89	780
Curtis, Charles L. (See Bidwell and Curtis.)						
Curtis, Charles L., assignor, by mesne assignments, to Nordlinger-Charlton Fireworks Company, New York, N. Y. Fire cracker-choking machine	634,201	Oct. 3	399	102, 103	89	82
Curtis, Charles L., assignor, by mesne assignments, to Nordlinger-Charlton Fireworks Company, New York, N. Y. Choke for fire-crackers	634,203	Oct. 3	411	104, 105	89	85
Curtis, Charles L., and G. Lispenard, assignors, by mesne assignments, to Nordlinger-Charlton Fireworks Company, New York, N. Y. Machine for making tubes for fire-cracker bodies	634,202	Oct. 3	406	103, 104	89	84
Curtis & Curtis. (See Curtis, Roderick P., assignor.)						
Curtis & Curtis. (See Curtis, Roderick P. and L. B., assignors.)						
Curtis, Elon C., Rosendale, Wis. Feed-water heater	621,037	Mar. 14	959	209	86	1699
Curtis, Frank G., Everett, assignor to Automatic Electric Pump Company, Boston, Mass. Making battery-cups	636,956	Nov. 14	1398	298	89	1229
Curtis, George H. W., New York, N. Y., assignor to Singer Manufacturing Company, of New Jersey. Sewing and plaiting machine	617,227	Jan. 3	694	161, 162	86	135
Curtis, George H. W., New York, N. Y., assignor to Singer Manufacturing Company, of New Jersey. Sewing-machine lap-seam feller	621,038	Mar. 14	961	209	86	1700
Curtis, George H. W., New York, N. Y., assignor to Singer Manufacturing Company, of New Jersey. Sewing-machine feller	621,039	Mar. 14	963	209	86	1700
Curtis, George W., Champlin, Minn. Dinner-pail	620,891	Mar. 14	659	144	86	1345
Curtis, George W., and J. H. Marriott, Long Grove, Iowa. Date-holder	634,880	Oct. 17	1670	393	89	364
Curtis, Henry H., Springfield, Mass. Electric switch	630,667	Aug. 8	1794	404	88	1085
Curtis, Ira C., Fulton, N. Y. Feed-water regulator for acetylene-gas generators	617,320	Jan. 10	872	205	86	189
Curtis, Ira C., Fulton, N. Y. Feed-water regulator for acetylene-gas generators	618,061	Jan. 24	2302	514	86	502
Curtis, John B. (See Ward and Curtis.)						
Curtis, John L., Chicago, Ill. Compound or composition of matter	621,797	Mar. 28	2346	------	86	1996
Curtis, Lewis B. (See Curtis, Roderick P. and L. B.)						
Curtis, Lewis E., assignor to M. C. Baker, Chicago, Ill. Temporary binder	618,498	Jan. 31	3141	694	86	674
Curtis, Lewis E., assiguor to Timewell Sack Filling and Sewing Machine Company, Chicago, Ill. Filled-sack-sewing machine	639,216	Dec. 19	1890	435, 436	89	2268
Curtis, Roderick P., Southport, assignor to Curtis & Curtis, Bridgeport, Conn. Pipe-threading machine	621,903	Mar. 28	2550	575	86	2036
Curtis, Roderick P. and L. B., Southport, assignors to Curtis & Curtis, Bridgeport, Conn. Machine for threading and cutting off pipe	625,087	May 16	2074	467	87	1141
Curtis, Roderick P. and L. B., Southport, assignors to Curtis & Curtis, Bridgeport, Conn. Machine for threading and cutting off pipe	625,088	May 16	2076	467	87	1141
Curtis, Roderick P. and L. B., Southport, assignors to Curtis & Curtis, Bridgeport, Conn. Stock and die	625,089	May 16	2078	468	87	1142
Curtis, Theodore H., assignor to J. G. Talmage, Cleveland, Ohio. Valve	627,103	June 20	1652	361	87	1972
Curtis, Warren, Palmer, N. Y. Settling and recovering apparatus for paper and pulp manufacture	632,517	Sept. 5	563	129	88	1819
Curtis, William. (See Evans and Curtis.)						
Curtis, William E., Tauuton, Mass. Power-transmitting mechanism	623,992	May 2	73	16	87	716
Curwen, Samuel M., and J. A. Brill, Philadelphia, Pa.; said Curwen assignor to said Brill. Railway-car	634,396	Oct. 3	802	194, 195	89	159
Cuscaden, Robert. (See Dornan and Cuscaden.)						
Cushing, Alfred D., Wheeling, W. Va. Lock	619,143	Feb. 7	661	142	86	941
Cushing, Alvin M., Springfield, Mass. Bicycle-brake	616,905	Jan. 3	73	15	86	16
Cushing, Alvin M., Springfield, Mass. Bicycle-seat	622,913	Apr. 11	1314	302	87	268
Cushing, Frederick W., Highland Park, Ill. Telautograph	639,716	Dec. 26	2327	652	89	2475
Cushing, George H., assignor to Goulds Manufacturing Company, Seneca Falls, N. Y. Spraying apparatus	620,701	Mar. 7	302	61	86	1560
Cushman, Amos A., Shreve, assignor of one-half to L. D. Patten, Mansfield, Ohio. Kitcheu-cabinet	633,754	Sept. 26	2929	680	88	2321
Cushman & Denison. (See Middlebrook, William D., assignor.)						
Cushman, John F. (See Rogers and Cushman.)						
Cushman, William C. (See Miller, John B., assignor.)						
Cusick, Michael, Chicago, Ill. Filter	626,977	June 13	1422	314	87	1909
Cusick, Thomas, Cogswell, N. D. Car-coupling	636,957	Nov. 14	1399	298	89	1229
Custer, Dwight W. (See Braley and Custer.)						
Custer, Dwight W., Proctorville, Ohio. Postal card	620,423	Feb. 28	2949	676	86	1437
Custer, Harrison K., Norwalk, Cal. Apron-fastener	631,005	Aug. 15	2382	542	88	1225
Custodis, Alphons, Dusseldorf, Germany. Indicator	620,702	Mar. 7	305	61	86	1560
Cuthbertson, John, Holyoke, Mass. Self-closing valve	625,542	May 23	2882	655	87	1322
Cutler, Burnam B., assignor of one-half to J. E. and E. B. Gilmore, Kansas City, Mo. Street-car fender	619,011	Feb. 7	411	86	86	890
Cutler Company. (See Cutler, Henry W., assignor.)						
Cutler Hammer Manufacturing Company. (See Cutler, Henry H., assignor.)						
Cutler, Henry H., Chicago, Ill. Motor-controller for printing-presses	630,330	Aug. 8	1126	246	88	959
Cutler, Henry H., Chicago, Ill. Motor-controller for printing-presses	630,331	Aug. 8	1129	247	88	960

Alphabetical list of patentees—Continued.

Name, residence, and invention.	No.	Date.	Monthly volume. Spec.	Monthly volume. Dr'g.	Official Gazette. Vol.	Official Gazette. Page.
Cutler, Henry H., assignor to Cutler Hammer Manufacturing Company, Chicago, Ill. Self-starter for electric motors	625,246	May 16	2354	536	87	1194
Cutler, Henry W., assignor to Cutler Company, Wilbraham, Mass. Grain-drier	640,107	Dec. 26	3541	814	89	2619
Cutler, James L., Cincinnati, Ohio. Telegraph instrument	638,101	Nov. 28	3958	833	89	1806
Cutliff, Joseph H., Macon, Ga. Hame-fastener	639,535	Dec. 19	2479	572	89	2387
Cutten, Elisha B., Butte, Mont., assignor to J. Mahon, New York, N. Y. Magneto-electric machine	635,276	Oct. 17	2398	558	89	506
Cutten, Lewyn F., Boissevain, Canada. Cradle	638,913	Dec. 12	1348	308	89	2150
Cutter Electrical and Manufacturing Company. (See Scott, William M., assignor.)						
Cutter, George, Kenilworth, Ill. Weeding implement	637,091	Nov. 14	1655	358	89	1279
Cutting, Charles H. and G. H., Derby, England. Electric generator or motor	636,897	Nov. 14	1272	274	89	1205
Cutting, George H. (See Cutting, Charles H. and G. H.)						
Cypher, Albert D., New York, N. Y. Pulley	627,177	June 20	1775	389	87	1997
Cyr, Joseph T. (See Clark and Cyr.)						
Czepull, Julius J., Lancaster, Pa. Vehicle-tire	619,871	Feb. 21	1998	454	86	1243
Czermak, John W. (See Erickson, Peter E., assignor.)						
Czikowski, Josef, Vienna, Austria-Hungary, assignor to Siemens & Halske Electric Company of America, Chicago, Ill. Electric-arc-forming device	622,759	Apr. 11	1037	241	87	217
D. M. Osborne & Company. (See Sharp, Charles S., assignor.)						
D. M. Sechler Carriage Company. (See Tunnicliff, John C., assignor.)						
D. Stewart & Company. (See Lyon, Henry, assignor.)						
D. & W. Fuse Company. (See Downes, Louis W., assignor.)						
D. & W. Fuse Company. (See Downes and Sherman, assignors.)						
D'Este, Julian. (See Paige, John C., assignor.)						
D'Esté, Julian, *et al.* (See Wilson and Webb, assignors.)						
D'Esté, Mary L., *et al.* (See Wilson and Webb, assignors.)						
D'Humy, Fernand E., assignor to E. M. Fisher, Boston, Mass. Bulletin-board	617,574	Jan. 10	1360	308, 309	86	284
D'Oksza, Thadée. (See Bourrelly, Gabriel, assignor.)						
D'Orbessan, Fernand, New York, N. Y. Carbonating apparatus	623,997	May 2	79	17	87	717
Da Rozir, Levi, Cambridge, assignor of five-eighths to F. A. Teele and L. P. Coté, Somerville, Mass. Automatic shut-off mechanism for steam-engines	629,778	Aug. 1	36	9	88	728
Daab, Frederick, *et al.* (See Faulstich, Wendelin, assignor.)						
Dade, Harry E., Mount Vernon, N Y. Binder	630,668	Aug. 8	1796	405	88	1085
Daellenbach, Charles R., assignor to Ellwood City Gas Engine Company, Ellwood City, Pa. Explosive-engine	632,917	Sept. 12	1351	311, 312	88	1987
Daellenbach, Charles R., assignor to Ellwood City Gas Engine Company, Ellwood City, Pa. Explosive-engine	632,918	Sept. 12	1354	312, 313	88	1988
Daeuble, Fredrick W., Louisville, Ky. Elevator-gate	628,925	July 18	1837	427	88	395
Dahl, Charles A., and H. I. Illingworth, Lynn, Mass. Means for finishing buttonholes	626,888	June 13	1280	280	87	1880
Dahl, Joachim J., Hamburg, Germany. Tool-holder for metal-working machines	617,008	Jan. 3	278	62	86	56
Dahl, Ole R., Seattle, Wash. Combined sheathing and lath	626,003	May 30	3785	862	87	1515
Dahlberg, Gustav, J. Clicquennoi, and E. Uhlin, McDonald, Pa. Gas and steam combination-engine	633,338	Sept. 19	2163	507	88	2159
Dahlberg, Gustave, J. Clicquennoi, and E. Uhlin, McDonald, Pa. Combination steam and gas engine	633,339	Sept. 19	2166	507, 508	88	2160
Dahlman, Henry, Minneapolis, Minn. Machine for making purflings, &c	617,283	Jan. 3	802	187	86	158
Dahlstrom, Andrew, Big Rapids, Mich. Milking-stool	620,424	Feb. 28	2950	677	86	1438
Daigneau, John G., assignor to himself, A. D. Pease, and E. Zimmermann, Buffalo, N. Y. Back-pedaling brake	635,714	Oct. 24	3234	745	89	686
Dailey, Christian E. (See Hackett and Dailey.)						
Dailey, James H. (See Wagner and Dailey.)						
Dailey, John D., White Plains, N. Y. Device for lowering or raising smoke-stacks	627,844	June 27	3035	662	87	2263
Dain, Joseph, Jr., Carrollton, Mo. Mill	639,717	Dec. 26	2829	652, 653	89	2476
Daisy Manufacturing Company. (See Hamilton, Clarence J., assignor.)						
Daisy Manufacturing Company. (See Passage, Hiram H., assignor.)						
Dalbey, William H., assignor to J. T. Layman, Indianapolis, Ind. Post-hole digger	630,865	Aug. 15	2128	482	88	1175
Dale, John H., and T. C. Green, Augusta, Ark. Apparatus for preserving pickled goods	630,669	Aug. 8	1798	405	88	1085
Daley, Michael J. (See Colligan and Daley.)						
Dallin, Bruce, assignor to G. W. Womack, Gainesville, Tex. Churn	635,239	Oct. 17	2326	543	89	493
Dallmer, Albert E. T., assignor to Aktien-Gesellschaft, Fahrrad and Maschinenfabrik, vormals H. W. Schladitz, Dresden, Germany. Coin-freed delivery and exhibition apparatus	618,335	Jan. 24	2811	623, 624	86	596
Dallmeyer, Thomas R., London, England. Photographic camera	634,881	Oct. 17	1671	393, 394	89	365
Dalsheimer, Simon, Baltimore, Md. Support for cards, &c	631,520	Aug. 22	3331	757	88	1431
Dalton, Joel A., *et al.* (See Brewer, Joseph H., assignor.)						
Daly, Daniel A., Detroit, Mich. Spike	634,522	Oct. 10	1031	246	89	223
Daly, Edmond, Monterey, Cal. Miner's pick	618,377	Jan. 24	2892	641	86	611
Daly, John P., assignor of one-half to D. G. Purse, Jr., Savannah, Ga. Nut-lock	626,271	June 6	88	24	87	1631
Daly, Richard F., Woonsocket, R. I. Differential gear	624,186	May 2	444	92	87	785
Daly, Thomas F., New York, N. Y. Blackboard	627,396	June 20	2208	485	87	2083
Daly, Timothy G., Boston, Mass. Advertising apparatus	623,889	Apr. 25	3131	721, 722	87	657
Daly, William, near Johannesburg, South African Republic. Machine for forging and sharpening rock-drills	631,281	Aug. 22	2890	653, 654	88	1343
Dalzell, Henry M., Muscatine, Iowa. Tubular crown-saw	640,108	Dec. 26	3543	814	89	2620
Dalzon, Aimé. (See Darmancier and Dalzon.)						
Damerell, Charles E., Benson, Mo. Road-scraper	637,712	Nov. 21	3213	667, 668	89	1639
Damerell, Henry, assignor of one-half to F. Way, Ludlow, Mo. Reversing slide-valve	628,396	July 4	835	195	88	159
Damitz, Adolf, Berlin, assignor to H. Priester, Lauenburg, Germany. Door check and closer	617,479	Jan. 10	1181	269	86	249
Dämitz, Adolf, assignor to W. Koettgen and M. Preckelt, Berlin, Germany. Locking device for bottle-stoppers	636,425	Nov. 7	336	75	89	989
Damlos, Johannes, Hamburg, Germany. Slide-valve gear	639,023	Dec. 12	1545	355	89	2187
Damm, Conrad, Cleveland, Ohio. Water-tower	617,228	Jan. 3	697	162	86	136
Damm, Fredrich C., New York, N. Y., assignor to Mergenthaler Linotype Company, of New York. Linotype-machine	638,866	Dec. 12	1259	285, 286, 287	89	2131
Dammen, Charley K., and O. Bergquist, Northwood, Iowa. Fan attachment for baby-carriages	636,898	Nov. 14	1273	274	89	1206
Damon, Frank J. (See Baldwin, Luther C., assignor.)						
Damon, George L., Cambridge, Mass. Safe	635,668	Oct. 24	3156	727	89	670

Alphabetical list of patentees—Continued.

Name, residence, and invention.	No.	Date.	Monthly volume. Spec.	Monthly volume. Dr'g.	Official Gazette. Vol.	Official Gazette. Page.
Damon, Walter S., Rindge, N. H Wood-turning lathe	617,721	Jan. 17	1635	367	86	357
Damrell, John S., assignor of one-half to W. Rooney, Boston, Mass. Inner sole	628,699	July 11	1432	332	88	298
Dana, William H., Dallas, Tex. Smoke-conveyer and spark-arrester	618,787	Jan. 31	3640	813, 814	86	771
Dana, William H., Dallas, Tex. Valve for smoke-conveyers and spark-arresters	636,640	Nov. 7	739	161	89	1071
Danalds, William H., Berea, and A. E. Flickinger, Elyria, Ohio. Electric alarm-signal for railway-crossings	626,978	June 13	1423	314	87	1909
Dancel, Christian. (See Scott and Dancel.)						
Dancel, Christian, and J. R. Scott, New York, N. Y. Machine for forming boot or shoe counters	634,397	Oct. 3	807	195, 196	89	161
Dancel, Mary, *et al.*, administrators. (See Scott and Dancel.)						
Danforth, Eugene H., Montreal, Canada. Button	620,425	Feb. 28	2951	677	86	1438
Danger, Hans H. F., Hamburg, Germany. Cracker-machine	621,040	Mar. 14	965	209, 210	86	1700
Danglemyer, Charles W., Dubuque, Iowa. Ironing-machine	618,062	Jan. 24	2304	514	86	502
Dangler Stove and Manufacturing Company. (See Ruppel, Henry, assignor.)						
Danheiser, John, *et al.* (See Penseyres, William H., assignor.)						
Daniel, Daniel. (See Harris, Charles B., assignor.)						
Daniel, Richard B., *et al.* (See Harding, Fred C., assignor.)						
Daniel, Richard C., *et al.* (See Harding, Fred C., assignor.)						
Daniels, Charles R., Sharples, England. Spooling-machine	629,004	July 18	1976	459, 460, 461	88	422
Daniels, Eugene O., Tiffin, Ohio. Apparatus for vaporizing and burning hydrocarbon oils	623,519	Apr. 25	2435	558	87	526
Daniels, Fred H., Worcester, Mass. Rail-bond for electric railways	626,979	June 13	1426	314	87	1909
Daniels, Fred H., Worcester, Mass. Rail-bond for electric railways	626,980	June 13	1427	314	87	1909
Daniels, Fred H., Worcester, Mass. Rail-bond for electric railways	632,252	Sept. 5	77	17	88	1722
Daniels, James R. (See Hooper and Daniels.)						
Daniels, John K., St. Paul, Minn. Monkey-wrench	619,546	Feb. 14	1364	314	86	1096
Daniels, Philo E., Oakland, Cal., assignor of one-half to G. P. Coates, Uncasville, Conn. Cuff-supporter	636,765	Nov. 14	1029	220	89	1156
Danielson, Albin, Chicago, Ill. Spring-hinge	636,322	Nov. 7	160	35	89	953
Danley, Willis W. (See Wybro and Danley.)						
Danley, Willis W., assignor to Bostedo Package and Cash Carrier Company, Chicago, Ill. Terminal for pneumatic-despatch tubes	623,520	Apr. 25	2437	558, 559	87	526
Dann, Isaac N., New Haven, Conn. Child's cart	620,107	Feb. 28	2411	545	86	1334
Dann, Isaac N., New Haven, Conn. Reclining-chair	628,700	July 11	1434	333	88	298
Dann, Isaac N , New Haven, Conn. Go-cart	633,431	Sept. 19	2333	550	88	2192
Danner, Adam, Yonkers, N. Y. Barrel-washing machine	637,854	Nov. 28	3471	725	89	1711
Danner, John N., *et al.* (See Johnston, Edward A., assignor.)						
Danz, Jacob, 2d, St. Paul, Minn. Pail-ear	625,383	May 23	2606	593	87	1268
Danzer, Albert, Hagerstown, Md. Roofing-tool	620,426	Feb. 28	2952	677	86	1438
Danzer, Ernest F. C., New York, N. Y. Truck bed or body	623,356	Apr. 18	2149	494	87	448
Dapp, Matthew, Lycoming, Pa. Hoof-parer	638,218	Dec. 5	18	6	89	1870
Darbey, Henry W., and L. E. Trant, Birmingham, England. Bicycle-brake	635,669	Oct. 24	3159	727, 728	89	670
Darby, Henry, assignor to J. H. Punchard, London, England. Bicycle-brake	619,072	Feb. 7	518	109, 110	86	911
Darby, James T., Lee county, Ark. Cloth-measuring machine	619,726	Feb. 21	1721	393	86	1189
Darby, John H., Brymbo, England. Centrifugal machine	618,814	Jan. 31	3697	827	86	783
Darier, Georges. (See Terrisse and Darier.)						
Darier, Georges E. (See Julius and Darier.)						
Darley, Edward C., *et al.* (See Kennedy, Dwight B., assignor.)						
Darley, Edward C., Chicago, Ill. Man-head	637,855	Nov. 28	3473	726	89	1712
Darling, A. M., *et al.* (See Hanson, Joseph H., assignor.)						
Darling, Alfred, Brighton, assignor of one-half to A. Wrench, London, England. Kinetographic camera	635,466	Oct. 24	2805	640, 641	89	603
Darling, Cornelius B. and R. R., and W. T. Mann, Cleveland, Ohio. Water-filter	632,339	Sept. 5	237	56	88	1754
Darling, Dexter H., assignor to H. L. Darling, Guilford, N. Y. Gun-sight attachment	638,007	Nov. 28	3776	793, 794	89	1771
Darling, Eva L., administratrix. (See Darling, Robert F.)						
Darling, Helen L. (See Darling, Dexter H., assignor)						
Darling, James D., assignor to Harrison Bros. & Company, Incorporated, Philadelphia, Pa. Galvanic battery	618,042	Jan. 17	2249	501	86	476
Darling, James D., assignor to Harrison Bros. & Company, Incorporated, Philadelphia, Pa. Zinc electrode	618,043	Jan. 17	2250	501	86	475
Darling, John, London, England, assignor to Gem Needle Threader Company, Limited, Glasgow, Scotland. Needle-threader	620,540	Feb. 28	3166	725, 726	86	1479
Darling, John, Gallowflats, assignor to Gem Needle Threader Company, Limited, Glasgow, Scotland. Needle-threader	633,080	Sept. 12	1615	376	88	2041
Darling, Joseph, Chicora, Pa. Oil-well packer	625,648	May 23	3063	698	87	1358
Darling, Origen B , Boston, Mass. Bicycle-saddle	618,601	Jan. 31	3318	738	86	708
Darling, Robert F., deceased, Syracuse, N. Y.; E. L. Darling, administratrix, assignor to Bevel Gear Wheel Company, Newark, N. J., and Hartford, Conn. Bicycle	631,063	Aug. 15	2500	566	88	1249
Darling, Rolla R. (See Darling and Mann.)						
Darlington, Benjamin F., and E. P. Clary, San Antonio, Tex. Horse-power and pumping-jack	625,649	May 23	3066	698	87	1358
Darlington, Frederic W , Philadelphia, Pa. Fountain	618,398	Jan. 31	2960	655	86	641
Darlington, John W., Denison, Kans. Wire-stretcher	629,240	July 18	2390	554	88	500
Darmancier, Michel, and A. Dalzon, St. Chamond, France. Gun-carriage	630,188	Aug. 1	854	183	88	891
Darmancier, Michel, and A. Dalzon, St. Chamond, France. Recoil-brake for gun-carriages	631,201	Aug. 15	2731	619	88	1294
Darnes, Richard C., Coshocton, Ohio Clothes-pin box or holder	617,284	Jan. 3	804	187	86	158
Daroovala, Manchershah D., assignor to Ralli Brothers, Bombay, India. Grid for cotton-gins	617,229	Jan. 3	698	163	86	136
Darrach, Samuel A , Newark, N J. Bandage-cutter	632,177	Aug. 29	4542	1024	88	1677
Darragh, John H., assignor of three-fourths to J. H Thompson, Oakland, Cal. Rotary engine	637,986	Nov. 28	3718	783	89	1760
Darragh, John J., Jr (See Darragh, William H. and J J., Jr.)						
Darragh, William H. and J. J , Jr., Memphis, Tenn. Valve	631,699	Aug. 22	3648	822	88	1495
Darrin, David H., Cranford, N. J. Apparatus for starting electric elevators	623,141	Apr. 18	1756	404	87	370
Darrin, David H., Cranford, N. J Electric elevator-switch	623,142	Apr. 18	1758	404	87	370
Dart, Albert E., Bridgeton, R. I., assignor to A. E. Dart Union Company, Woburn, Mass. Union-coupling	631,064	Aug. 15	2501	566	88	1249
Dart, Frank V., and C. W. McMurry, Seattle, Wash. Railway-track cleaner	631,847	Aug. 29	3934	880	88	1558

Alphabetical list of patentees—Continued.

Name, residence, and invention.	No.	Date.	Monthly volume. Spec.	Monthly volume. Dr'g.	Official Gazette. Vol.	Official Gazette. Page.
Daschbach, Edward J., Pittsburg, Pa. Gas-stove	632,340	Sept. 5	238	56	88	1754
Daschbach, Edward J., Pittsburg, Pa. Gas-burner	632,341	Sept. 5	239	57	88	1755
Dashwood, Frederick. (See Sheppard and Dashwood.)						
Date, Henry. (See Smith, Walter L., assignor.)						
Daubenberger, Fred J. (See Talcott and Daubenberger.)						
Daubenmeyer, Andrew, Nashville, Tenn. Glory-hole	617,925	Jan. 17	2046	458	86	439
Daudelin, Felix E., Chicago, Ill. Lifter for dishes, pans, plates, &c	622,942	Apr. 11	1366	313	87	279
Daugherty, Joseph E., Tiffin, Ohio. Fish-hook	633,081	Sept. 12	1616	376	88	2041
Dauscha, Frank J., *et al.* (See Sendlein, Andreas, assignor.)						
Daut, Heinrich, Nuremberg, Germany. Apparatus for generating acetylene gas	630,597	Aug. 8	1671	375	88	1062
Dauvergne, André, Lyons, France. Machine for folding fabrics	630,189	Aug. 1	856	184	88	891
Davenport, Daniel F., Americus, Ga. Disguising unpalatable medicines	617,956	Jan. 17	2093	------	86	448
Davenport, Elmer E., Baraboo, Wis Scoop	636,735	Nov. 7	959	206	89	1126
Davenport, Hal H. (See Lidberg, Tiodolf, assignor.)						
Davenport, William H., Norwich, Conn. Firearm	624,187	May 2	445	92	87	785
Davenport, William H., Norwich, Conn. Extractor mechanism for breakdown guns	638,322	Dec. 5	254	53	89	1915
Davenport, William S., assignor to Brown & Sharpe Manufacturing Company, Providence, R. I. Stop-motion for screw or other machines	622,760	Apr. 11	1038	241	87	217
Daves, William, Jersey City, N. J. Electrically controlled and operated railway-signal	625,875	May 30	3508	796, 797, 798	87	1461
Davey, John T., Ashland, Wis. Toy parachute	633,082	Sept. 12	1620	376	88	2042
Davey, John T., Ashland, Wis. Tobacco-pipe	634,806	Oct. 10	1525	358	89	320
David, Antoine F. (See Gautier, Ferdinand P., assignor.)						
David Bradley Manufacturing Company. (See Brunnemer, William T. M., assignor.)						
David, Henri, Paris, France. Apparatus for mercerizing	618,399	Jan. 31	2962	656	86	641
David, Tony, Lyons, France. Jaquard-card-punching device	631,395	Aug. 22	3101	702	88	1384
Davids, Milo R. (See Hopkins, Rush, and Davids.)						
Davidson, James E., Pittsburg, Pa. Placket-closer, &c	630,190	Aug. 1	858	184	88	892
Davidson, James L., Pittsburg, Pa. Sectional bookcase	638,381	Dec. 5	375	78, 79	89	1938
Davidson, John, London, England. Cyclometer-watch	622,884	Apr. 11	1272	293, 294	87	260
Davidson Lock Company. (See Zoeller, Theodore J., assignor.)						
Davidson, Otis E., Nashville, Tenn. Gate-latch	632,215	Aug. 29	4612	1039	88	1690
Davidson, Samuel, Buffalo, N. Y. Wrench	637,375	Nov. 21	2233	481	89	1408
Davidson, Samuel C., Belfast, Ireland. Means for supporting bearings	630,529	Aug. 8	1550	345, 346	88	1038
Davies, Albert J., assignor of three-fourths to J. Hirsch, Kansas City, Mo. Horseshoe	624,631	May 9	1257	281	87	966
Davies, Annie A., St. Paul, Minn. Baby's band	618,847	Feb. 7	50	11	86	814
Davies, Charles W. T., San Francisco, Cal. Billiard-cue chalker	636,199	Oct. 31	4209	968	89	891
Davies, George, Seattle, Wash. Bicycle	633,814	Sept. 26	3021	702	88	2341
Davies, James R., Luton, assignor to H. Tyler & Co., London, England. Joint permitting of independent rotation of the two parts	638,564	Dec. 5	706	150	89	2001
Davies, John A., Cleveland, Ohio. Arc-lamp	634,849	Oct. 10	1605	376	89	336
Davies, Joseph, Bridgeport, Pa. Feeding device for steam-boiler furnaces	626,981	June 13	1428	315	87	1909
Davies, Lewis, Liverpool, England. Means for securing propeller-blades	633,376	Sept. 19	2235	526	88	2172
Davies, Philip J., London, assignor to M. Woodward, Highfield, England. Water-closet	633,232	Sept. 19	1958	460	88	2120
Davies, Roderick W., assignor of one-half to J. W. Russell, Warren, Ohio. Casting apparatus	620,020	Feb. 21	2248	510	86	1289
Davies, Thomas W., St. Louis, Mo., assignor to himself and F. T. Long Shaft-tug	634,720	Oct. 10	1385	326	89	293
Davies, William L., Chester, England. Tobacco-press	629,287	July 18	2467	574	88	514
Davies, William O., Jr., and R. Hughes, Chicago, Ill. Belt-tightener	634,055	Oct. 3	122	31	89	28
Davin, James J., Washington, Pa. Temper-screw	636,641	Nov. 7	740	161	89	1071
Davis, Albert F., Rutland, Vt. Grinding-mill	619,012	Feb. 7	413	86, 87	86	890
Davis, Albon C., assignor of one-half to H. E. Carpenter, Fort Davis, Tex. Adjustable school-desk	622,647	Apr. 4	844	194	87	160
Davis, Andrew J., Chicago, Ill. Pneumatic-cushion seat-post	622,179	Mar. 28	3055	693	86	2136
Davis, Andrew J., Chicago, Ill. Pneumatic-cushion handle-bar	627,574	June 27	2544	560	87	2165
Davis, Augustin I., Lowell, Mass., assignor to American Mason Safety Tread Company, Saco, Me. Sidewalk-light	625,090	May 16	2080	468	87	1142
Davis, Augustine, Chicago, Ill. Acetylene-generator	626,272	June 6	89	24, 25	87	1632
Davis, Benjamin W., Rock Springs, Wyo. Grain-door for railway-cars	617,642	Jan. 10	1485	338	86	309
Davis, Calvin R., assignor to South Bend Iron Works, South Bend, Ind. Wheel	631,986	Aug. 29	4175	939	88	1604
Davis, Calvin R., assignor to South Bend Iron Works, South Bend, Ind. Plow	632,647	Sept. 5	796	185, 186	88	1865
Davis Calyx Drill Company. (See Davis, Francis H., assignor.)						
Davis Chair Company. (See McCloud, Smith N., assignor.)						
Davis, Charles A., Pasadena, Cal. Solar water-heater	629,122	July 18	2195	509, 510	88	466
Davis, Charles F. (See Freeman, John W., assignor.)						
Davis, Charles G., Freeman, Canada. Wire-splicer	632,446	Sept. 5	428	95	88	1791
Davis, Charles H., Worcester, Mass. Dental plugger	639,536	Dec. 19	2481	573	89	2388
Davis, Charles W., and H. M. Hall, Columbia, Mo. Adjustable book-rest	639,362	Dec. 19	2184	505	89	2329
Davis, Cornelius A. (See Wilson, Henry M., assignor.)						
Davis, Cornelius A., and H. M. Wilson, Somerset, Mass. Trolley-pole catcher	631,361	Aug. 22	3030	687	88	1371
Davis, Daniel and E. H., assignors to Davis Voting Machine Company, Elmira, N. Y. Voting-machine	619,249	Feb. 7	851	186, 187	86	979
Davis-Douglas, William, Chicago, Ill. Kiln	634,721	Oct. 10	1386	327	89	293
Davis, Edward, Boston, assignor to C. F. Brown, trustee, Reading, Mass. Bicycle, &c	625,720	May 23	3180	722	87	1381
Davis, Edward, Boston, Mass., assignor to M. A. Bernheimer and R. W. Gordon, New York, N. Y. Municipal signal	620,703	Mar. 7	305	62	86	1560
Davis, Elmer E. (See Davis, Idell, and Davis.)						
Davis, Emerson, Indianapolis, Ind. Bicycle-brake	621,635	Mar. 21	2013	449	86	1916
Davis, Emry. (See Brownell, Henry B., assignor.)						
Davis, Etna H. (See Davis, Daniel and E. H.)						
Davis, Francis H., assignor to Davis Calyx Drill Company, New York, N. Y. Turnbuckle	634,431	Oct. 3	871	210	89	175
Davis, Frank, and O. H. P. Cornelius; said Cornelius assignor to S. W. Read, Turner, Oreg. Toilet-paper case	621,636	Mar. 21	2016	449, 450, 451	86	1917
Davis, Frederick A. W., Indianapolis, Ind. Separator for waterworks	629,846	Aug. 1	169	39, 40	88	754
Davis Gasoline Engine Works Company. (See Davis, William F., assignor.)						
Davis Gasoline Engine Works Company. (See Davis and Cascaden, assignors.)						
Davis, George D. (See Plummer, Mark, assignor.)						
Davis, George H. (See Schrade and Shonnard, assignors.)						
Davis, George H., Portland, Me. Curtain-holding device	617,321	Jan. 10	874	205	86	190
Davis, George H., Portland, Me. Curtain-holding device	629,550	July 25	2976	695	88	635

Alphabetical list of patentees—Continued.

Name, residence, and invention.	No.	Date.	Monthly volume.		Official Gazette.	
			Spec.	Dr'g.	Vol.	Page.
Davis, George H., assignor, by mesne assignments, to Pianophone Company, New York, N. Y. Attachment for automatically operating pianos	629,103	July 18	2161	502	88	459
Davis, George H., assignor to Aeolian Company, New York, N. Y. Electromechanical perforating-machine	630,598	Aug. 8	1672	375, 376	88	1062
Davis, George K., Lewiston, Me. Platform-truck	627,845	June 27	3036	663	87	2263
Davis, George P., assignor of one-half to T. D. Wilson and E. J. Cousins, Toronto, Canada. Dental cuspidor	633,125	Sept. 19	1742	411	88	2076
Davis, George R. (See McAneny, Michael, assignor.)						
Davis, George S., *et al.* (See Raymond and Beal, assignors.)						
Davis, George W., Granville, N. Y. Thill-coupling	632,550	Sept. 5	640	149	88	1833
Davis, Grace P. (See Davis, Lewis K., assignor.)						
Davis, Harry P., Pittsburg, Pa., assignor to Westinghouse Electric and Manufacturing Company, of Pennsylvania. Circuit-breaker	622,885	Apr. 11	1273	294	87	260
Davis, Harry P., Pittsburg, Pa., assignor to Westinghouse Electric and Manufacturing Company, of Pennsylvania. Fuse-block for electric circuits	629,663	July 25	3174	740	88	673
Davis, Harry P., Pittsburg, and F. Conrad, Wilkinsburg, Pa., assignors to Westinghouse Electric and Manufacturing Company, of Pennsylvania. Electrical measuring instrument	627,908	June 27	3151	690	87	2288
Davis, Harry P., Pittsburg, and G. Wright, Wilkinsburg, assignors to Westinghouse Electric and Manufacturing Company, Pittsburg, Pa. Controller for electric motors.	625,151	May 16	2185	496, 497	87	1162
Davis, Harry P., Pittsburg, and G. Wright, Wilkinsburg, Pa., assignors to Westinghouse Electric and Manufacturing Company, of Pennsylvania. High-tension circuit-breaker.	629,664	July 25	3175	740	88	674
Davis, Harry P., Pittsburg, and G. Wright, Wilkingsburg, Pa., assignors to Westinghouse Electric and Manufacturing Company, of Pennsylvania. Controller for electric motors.	629,665	July 25	3177	741, 742	88	674
Davis, Henry C., Washington, D. C., assignor to C. Popper, New York, N. Y. Flushing and cleaning sewers	624,188	May 2	447	93	87	785
Davis, Henry F., *et al.* (See Parkhurst, Edward B., assignor.)						
Davis, Henry S., assignor of one-half to J. T. Phillips, Seymour, Iowa. Curtain-fixture	633,815	Sept. 26	3022	702	88	2342
Davis, Herbert W., Fall River, Mass. Knob attachment	629,123	July 18	2197	510	88	466
Davis, Horace A., New York, N. Y. Game	628 773	July 11	1557	359	88	324
Davis, Irvin, Columbia, Mo. Adjustable scaffold-trestle	633,233	Sept. 19	1959	460	88	2120
Davis, Isaac, *et al.* (See Gram, Ernst W., assignor.)						
Davis, James D., Pekin, Kans. Register	618,602	Jan. 31	3320	739	86	708
Davis, John. (See McCune and Davis.)						
Davis, John B., Cleveland, Ohio. Solar and transit instrument	620,427	Feb. 28	2954	677, 678	86	1438
Davis, John H., Chicago, Ill., assignor of two-thirds to L. L. Merriman and A. E. Jessurun. Method of and apparatus for painting	618,788	Jan. 31	3643	814	86	772
Davis, John H., assignor of two-thirds to L. L. Merriman, A. E. Jessurun, and W. R. Rummler, Chicago, Ill. Apparatus for painting	623,307	Apr. 18	2058	472	87	431
Davis, John H., assignor of two-thirds to L. L. Merriman, A. E. Jessurum, and W. R. Rummler, Chicago, Ill. Apparatus for painting	629,756	July 25	3350	782	88	707
Davis, John T., San Francisco, Cal. Apparatus for collecting gold from river-beds	619,727	Feb. 21	1723	394	86	1189
Davis, John T., San Francisco, Cal. Artificial fuel	621,041	Mar. 14	966	------	86	1700
Davis, John T., San Francisco, Cal., assignor of one-half to C. W. Kohlsaat, New York, N. Y. Artificial fuel	619,728	Feb. 21	1725	------	86	1190
Davis, John T., San Francisco, Cal., assignor of one-half to C. W. Kohlsaat, New York, N. Y. Artificial fuel	619,729	Feb. 21	1726	------	86	1190
Davis, John T., assignor to J. Treadwell, San Francisco, Cal. Briquet-press	640,109	Dec. 26	3544	814, 815	89	2620
Davis, Jonathan B. (See Davis, Orson W., assignor.)						
Davis, Joseph (See Doerflinger, Burg, and Davis.)						
Davis, Leonard D., Erie, Pa. Mechanism for making tubes from metallic ingots	617,083	Jan. 3	427	104	86	82
Davis, Leonard D., Erie, Pa. Machine for and process of shaping and stretching metallic ingots	627,455	June 20	2316	510, 511	87	2104
Davis, Leonard M., Erving, assignor to Millers Falls Company, Miller's Falls, Mass. Spiral-tool driver	621,401	Mar. 21	1592	352	86	1835
Davis, Levi S., Canisteo, N. Y. Apparatus for manufacturing gas	637,856	Nov. 28	3475	726	89	1712
Davis, Lewis K., New York, N. Y., assignor, by mesne assignments, to United States Sand Filtration Company, of New Jersey. Filter-bed	624,898	May 9	1733	391	87	1060
Davis, Lewis K., assignor to G. P. Davis, New York, N. Y. Filtering device	636,323	Nov. 7	162	35,36	89	953
Davis, Maylen T. (See Duty, John W., assignor.)						
Davis, Merton E., Fayston, Vt. Wire-stretcher	639,217	Dec. 19	1894	427	89	2268
Davis, Nathan H., Philadelphia, Pa. Link-ladder	634,444	Oct. 10	899	216	89	197
Davis, Nathan H., Philadelphia, Pa. Spring and spring-plate	638,498	Dec. 5	599	123	89	1980
Davis, Nathan H., Philadelphia, Pa. Dust-guard for car-axle boxes	638,499	Dec. 5	600	124	89	1981
Davis, Nathan H., Philadelphia, Pa. Dust-guard for car-axle boxes	638,500	Dec. 5	602	124	89	1981
Davis, Orson W., assignor of one-half to J. B. Davis, Adrian, Mich. Riveting-machine	624,759	May 9	1477	336	87	1011
Davis, Otis L., Vinton, Iowa. Clam-dredge	625,543	May 23	2884	656	87	1322
Davis, Pearl T. (See Hegarty, Reuben, assignor.)						
Davis, Robert C., Columbus, Ohio, assignor of one-half to J. B. Knorr, Reading, Pa. Casket	636,766	Nov. 14	1029	220	89	1157
Davis & Roesch Temperature Controlling Company. (See Roesch, Alfred, assignor.)						
Davis, Romondo. (See Stoddard, Benjman A., assignor.)						
Davis, Stephen J., Oneco, Conn. Bedclothing-holder	630,191	Aug. 1	859	184	88	892
Davis, Sylvanus E., assignor of four-fifths to H. R. Drake, N. Cook, R. Berry, N. D. Drake, Newark, and W. S. Gardner, Auburn, N. Y. Machine for making egg-carriers	622,038	Mar. 28	2795	630	86	2083
Davis, T. Monroe. (See Barney, Nathan, assignor.)						
Davis, Thomas, *et al.* (See Condit, George F., assignor.)						
Davis, Thomas R., Burlington, N. J. Combined hitching-post and bicycle-rack	629,779	Aug. 1	37	10	88	728
Davis, Thomas S., Lansingburg, N. Y. Bicycle	625,835	May 30	3427	778	87	1446
Davis Voting Machine Company. (See Davis, Daniel and E. H., assignors.)						
Davis, W. H. (See Clough, John H., assignor.)						
Davis, Walter L., Chicago, Ill. Bicycle-saddle	623,238	Apr. 18	1924	442	87	404
Davis, Warren B., New York, N. Y. Kinetoscope	617,643	Jan. 10	1486	339	86	309
Davis, Wilbur G., Concord, Mass. Buckle for harness	623,704	Apr. 25	2762	632	87	586
Davis, Wilbur G., Newton, Mass. Draft apparatus for vehicles	623,705	Apr. 25	2764	633	87	587
Davis, Will H. (See Walters, Davis, and Hawkins.)						
Davis, William, *et al.* (See Westwood, John T., assignor.)						
Davis, William A., G. S. Idell, and E. E. Davis, Jeffersonville, Ind. Window-sash	628,303	July 4	667	156	88	129
Davis, William C., Denver, Colo. Car-axle	618,982	Feb. 7	368	76	86	881
Davis, William C., Denver, Colo. Tramway truck and bail	628,527	July 11	1093	254, 255	88	230
Davis, William C., Denver, Colo. Cam or pulley fastening	634,660	Oct. 10	1274	301	89	271
Davis, William E., assignor of one-half to G. B. Freeman & Co., Racine, Wis. Band-fastening	637,239	Nov. 21	1971	421	89	1354

Alphabetical list of patentees—Continued.

Name, residence, and invention.	No.	Date.	Monthly volume.		Official Gazette.	
			Spec.	Dr'g.	Vol.	Page.
Davis, William F., *et al.* (See Jenkins, Charles H., assignor.)						
Davis, William F., Waterloo, Iowa. Grinding-mill	637,957	Nov. 28	3669	770, 771	89	1751
Davis, William F., Waterloo, Iowa. Grinding-mill	637,958	Nov. 28	3672	771	89	1751
Davis, William F., assignor to Davis Gasoline Engine Works Company, Waterloo, Iowa. Grinding-mill	622,914	Apr. 11	1315	303	87	268
Davis, William F., and T. Cascaden, Jr., assignors to Davis Gasoline Engine Works Company, Waterloo, Iowa. Grinding-mill	622,915	Apr. 11	1318	303, 304	87	269
Davis, William F., and T. Cascaden, Jr., assignors to Davis Gasoline Engine Works Company, Waterloo, Iowa. Grinding-mill	622,916	Apr. 11	1321	304	87	269
Davis, William H., Minneapolis, Minn. Adding-machine	635,670	Oct. 24	3161	728	89	671
Davis, William M., Gatesville, Tex. Shower-bath bucket	621,042	Mar. 14	968	210	86	1701
Davis, William M., assignor to Stromberg-Carlson Telephone Manufacturing Company, Chicago, Ill. Telephone-repeater	625,247	May 16	2356	536	87	1195
Davis, William M., assignor to Stromberg-Carlson Manufacturing Company, Chicago, Ill. Telephone system	633,547	Sept. 19	2523	593	88	2227
Davis, William T., Battle Creek, Mich. Valve mechanism	618,454	Jan. 31	3055	676	86	657
Davis, William W., Corsicana, Tex. Combination-tool	617,462	Jan. 10	1152	263	86	242
Davison, George B., Utica, N. Y. Weeder	632,961	Sept. 12	1422	328	88	2002
Davison, George B., Utica, N. Y. Weeder-tooth	632,962	Sept. 12	1424	329	88	2002
Davy, David, Parkhead, England. Raising or lowering apparatus for mines, &c	637,092	Nov. 14	1656	358, 359	89	1279
Davy, George W., *et al.* (See Smith, James G., assignor.)						
Davy, William J., and G. Thomas-Davies, London, England. Electric-arc lamp	637,448	Nov. 21	2357	509	89	1432
Davy, William J., and G. Thomas-Davies, London, England. Electric-arc lamp	638,836	Dec. 12	1211	273	89	2122
Dawes, Franklin H., El Reno, Okla. Ter. Plow	635,671	Oct. 24	3164	729	89	671
Dawes, John L., Pittsburg, Pa. Sign	632,402	Sept. 5	350	79	88	1775
Dawley, Winfield W., Buffalo, N. Y. Buoyant twin-screw vessel	636,495	Nov. 7	456	102	89	1013
Dawson, Arthur T. (See Maxim and Dawson.)						
Dawson, Arthur T., and G. T. Buckham, London, assignors to Vickers, Sons & Maxim, Limited, Sheffield, England. Breech mechanism for breech-loading ordnance	629,288	July 18	2468	574, 575	88	515
Dawson, Arthur T., and G. T. Buckham, London, assignors to Vickers, Sons & Maxim, Limited, Sheffield, England. Firing and extracting mechanism for breech-loading guns	629,551	July 25	2977	695	88	636
Dawson, Arthur T., and G. T. Buckham, London, assignors to Vickers, Sons & Maxim, Limited, Sheffield, England. Shell-fuse	629,552	July 25	2978	696	88	636
Dawson, Arthur T., and G. T. Buckham, London, assignors to Vickers, Sons & Maxim, Limited, Sheffield, England. Extracting mechanism for breech-loading guns	630,192	Aug. 1	860	185	88	892
Dawson, Arthur T., and G. T. Buckham, London, assignors to Vickers, Sons & Maxim, Limited, Sheffield, England. Apparatus for raising charges for breech-loading guns to loading position	633,816	Sept. 26	3023	702, 703	88	2342
Dawson, Arthur T., and G. T. Buckham, London, assignors to Vickers, Sons & Maxim, Limited, Sheffield, England. Worm-gear for training guns	640,110	Dec. 26	3546	815	89	2620
Dawson, Arthur T., and L. Silverman, assignors to Vickers, Sons & Maxim, Limited, London, England. Recoil mechanism for automatic machine-guns	638,045	Nov. 28	3841	807	89	1784
Dawson, Charles, assignor of one-half to E. Adler, Lachine, Canada. Belt-shipper	618,246	Jan. 24	2659	588	86	568
Dawson, Edward, New York, N. Y. Feed-bag	628,451	July 11	939	218	88	200
Dawson, George, San Francisco, Cal. Acetylene-gas generator	630,975	Aug. 15	2340	533	88	1216
Dawson, James W., assignor to World Bottle Lock Stop Company, Minneapolis, Minn. Bottle-stopper	633,094	Sept. 12	1675	394	88	2053
Dawson, Jefferson D., Rockbridge, Ill., assignor of one-half to R. T. Dawson, St. Louis, Mo., and P. E. Dawson, Hancock, Md. Check-row planter	635,715	Oct. 24	3236	746	89	687
Dawson, John H., Oxford, assignor of one-half to J. W. Woodside, Philadelphia, Pa. Can-opener	631,955	Aug. 29	4116	924	88	1593
Dawson, John W. (See Edmondson and Dawson.)						
Dawson, Peter E., *et al.* (See Dawson, Jefferson D., assignor.)						
Dawson, R. T., *et al.* (See Dawson, Jefferson D., assignor.)						
Dawsou, William J., Linwood, Kans. Potato-digger	627,485	June 27	2370	522	87	2131
Day, Albert A. (See Day, Charles M., assignor.)						
Day, Albert A., New York, assignor to Ideal Fuel Feeder Company, Hempstead, N. Y. Apparatus for preparing and feeding fuel	634,552	Oct. 10	1091	259	89	235
Day, Charles E. (See Lee, Patrick J., assignor.)						
Day, Charles M., assignor to A. A. Day, New York, N. Y. Boiler-furnace	617,521	Jan. 10	1250	285	86	263
Day, Charles M., assignor to A. A. Day, New York, N. Y. Apparatus for preparing and feeding fuel to furnaces	617,522	Jan. 10	1252	285, 286	86	264
Day, Charles M., assignor to A. A. Day, New York, N. Y. Breaking and feeding apparatus	617,523	Jan. 10	1256	286	86	265
Day, Charles M., Hopedale, Mass., assignor to Draper Company, Hopedale, Mass., and Portland, Me. Loom	618,789	Jan. 31	3644	814	86	772
Day, Charles M., Hopedale, Mass., assignor to Draper Company, Hopedale, Mass., and Portland, Me. Filling-carrier for looms	635,716	Oct. 24	3238	746	89	687
Day, George F., San Francisco, Cal. Feed-water heater and purifier	621,775	Mar. 21	2296	516	86	1972
Day, Henry L., Minneapolis, Minn. Separator	627,575	June 27	2545	560	87	2165
Day, James J. (See Day, Robert V. L., M. L., and J. J.)						
Day, John, A. Timewell, Blackpool, and C. E. Timewell, assignors to S. S. Whitaker, Halifax, England. Axle-cap for wheels of vehicles	626,677	June 13	841	192	87	1797
Day, John W., and B. L. Johnson, Washington, Pa. Cover for vessels	619,145	Feb. 7	663	143	86	941
Day, Martin L. (See Day, Robert V. L., M. L., and J. J.)						
Day, Orin F., assignor of one-half to P. Nordwall, Kansas City, Mo. Combined lock and latch	626,147	May 30	4087	932	87	1568
Day, Patrick L., Cleveland, Ohio. Wire-rod mill	619,036	Feb. 7	456	96	86	898
Day, Patrick L., Cleveland, Ohio. Wire-rod mill	619,144	Feb. 7	662	143	86	941
Day, Robert V. L., M. L., and J. J., Nashville, Ga. Baling-press	636,397	Nov. 7	286	64	89	978
Day, Willard G., and T. A. Bryan, assignors of one-half to C. H. Boone, Baltimore, Md. Improving alcoholic liquids	625,650	May 23	3067	698	87	1359
Day, William C., assignor of one-half to W. I. White, Rumford Falls, Me. Combined drafting and measuring tool	622,128	Mar. 28	2959	669	86	2116
Day, William C., Rumford Falls, assignor to National Drafting Tool Company, Livermore Falls, Me. Device for handling barrels	639,696	Dec. 19	2791	643	89	2450
Daylight Incandescent Gas Lamp Company. (See Cohn, Sigmund, assignor.)						
Daymon, Allen R., Peters Creek, Ill. Trace-carrier	626,982	June 13	1430	315	87	1910
Dayton, Charles H., Iowa City, Iowa. Feed-cooker	618,647	Jan. 31	3401	757	86	724
Dayton, D. D. (See Smith, Herbert P., assignor.)						
Dayton Malleable Iron Company. (See Street, Clement F., assignor.)						
Dayton Manufacturing Company. (See Kirby, John, Jr., assignor.)						
Dayton, William H., assignor to Excelsior Needle Company, Torrington, Conn. Swaging-machine	637,449	Nov. 21	2358	509	89	1432

Alphabetical list of patentees—Continued.

Name, residence, and invention.	No.	Date.	Monthly volume. Spec.	Monthly volume. Dr'g.	Official Gazette. Vol.	Official Gazette. Page.
De Armon, Thomas. (See Callahan, De Armon, and Callahan.)						
De Armon, Thomas, Dayton, Ohio. Oil-cake former	621,904	Mar. 28	2551	575, 576	86	2036
De Armond, William C., *et al.* (See Smith, John Y., assignor.)						
De Benedictis, Camillo. (See Travaglini, Antonio, assignor.)						
De Camp, George, St. Louis, Mo. Engine	628,397	July 4	836	195	88	160
De Camp, George, and E. B. Roth, St. Louis, Mo. Engine	628,398	July 4	838	196	88	160
De Camp, Lyman B., Alhambra, Cal. Combination-machine for making dustless roads	637,713	Nov. 21	3214	668, 669	89	1640
De Champ, Obed, assignor of one-half to A. D. Nichols, Everett, Mass. Shutter-worker	636,720	Nov. 7	899	199	89	1107
De Costa, Braulio A., Rye Beach, N. H. Cutter	619,397	Feb. 14	1110	251	86	1046
De Fontes, Francis, Baltimore, Md. Barber-chair	637,715	Nov. 21	3218	669	89	1640
De Freitas, William, New York, N. Y. Safety attachment for gas stoves or ranges	638,501	Dec. 5	603	124	89	1981
De Gordy, Francis, Providence, R. I. Top for flasks	634,641	Oct. 10	1233	293	89	262
De Groat, George E., Piermont, N. Y., and H. Henning, Hoboken, N. J. Mop-holder	619,547	Feb. 14	1365	314	86	1096
De la Harpe, Charles, and C. Vaucher, Basle, Switzerland, assignors to L. Durand, Huguenin & Cie., Basle, Switzerland; St. Fons, France, and Hüningen, Germany. Gallocyanin-Leuco derivative and making same	629,666	July 25	3150	------	88	673
De la Harpe, Charles, and C. Vaucher, assignors to L. Durand, Huguenin & Cie., Basle, Switzerland. Oxazin dye	638,576	Dec. 5	725	------	89	2005
De Hymel, Frank O., *et al.* (See De Witt, Joseph R., assignor.)						
De Lancey, Charles E., Newport, Pa. Preserving-jar	625,091	May 16	2081	468	87	1142
De Laney, Thomas, Grand Rapids, Mich. Tool for attaching bands to hose	625,492	May 23	2800	637	87	1306
De Lano, Charles S., Los Angeles, Cal. Tailpiece for banjos	624,309	May 2	677	148	87	829
De Laval Separator Company. (See Bell, Ernest E., assignor.)						
De Laval Separator Company. (See Berrigan, John J., assignor.)						
De Leon, Joseph, Annapolis, Md. Attachment for cash-registers	631,928	Aug. 29	4067	913	88	1584
De Léry, Joseph B., New York, N. Y., assignor to De Léry Light Company. Incandescent gas-burner	633,346	Sept. 19	2178	511	88	2162
De Léry Light Company. (See De Léry, Joseph B., assignor.)						
De Long, Julius, New York, N. Y. Insulating material	622,450	Apr. 4	447	------	87	83
De Man, Alphonse, Detroit, Mich. Fireproof floor and ceiling construction	625,544	May 23	2886	656	87	1323
De Man, Alphonse, Detroit, Mich. Joint for structural building members	639,961	Dec. 26	3283	751	89	2567
De Moe, Earl W. (See Armstrong, Charles G., assignor.)						
De Mott, Andrew J., *et al.* (See Lawson, Benjamin S., assignor.)						
De Moulin, Edmond, *et al.* (See Bradsby, William B., assignor.)						
De Moulin, Ulysses S., *et al.* (See Bradsby, William B., assignor.)						
De Pons, William, *et al.* (See Buckingham, Albert E., assignor.)						
De Quillfeldt, Charles, Amityville, N. Y. Siphon-head	618,616	Jan. 31	3342	743	86	712
De Quillfeldt, Charles, Amityville, N. Y. Bottle-stopper	624,681	May 9	1338	299	87	982
De Rango, Louis, Syracuse, assignor to McKee & Harrington, New York, N. Y. Bicycle. (Reissue)	11,764	Aug. 8	2073	468	88	1142
De Rycke, Jules J. J., New York, N. Y. Steam-separator and grease-extractor	617,480	Jan. 10	1182	269	86	249
De Smith, Henry, Rochester, N. Y. Gage	639,671	Dec. 19	2739	629	89	2440
De Tray, Frederick H., assignor of one-fourth to E. B. Potter and A. Rohrbough, Quincy, Ill. Dividers	631,987	Aug. 29	4175	939	88	1605
De Vilbiss, Allen, Jr., Toledo, Ohio. Scale	621,297	Mar. 14	1416	313	86	1788
De Vinne, Theodore B. (See Bierstadt and De Vinne.)						
De Voe, Frank, Lima, Ohio. Hydrocarbon generator and burner	631,779	Aug. 29	3823	852	88	1536
De Vore, George E., assignor of one-half to A. Beamer and C. H. Mead, Lansing, Mich. Wire-and-slat-weaving machine	628,774	July 11	1558	360, 361	88	324
De Vos, Theodore, Brussels, Belgium. Coin-freed delivery apparatus	623,464	Apr. 18	2328	534, 535	87	487
De Wallace, Harry, St. Paul, Minn. Train-order signal	617,232	Jan. 3	702	163, 164, 165	86	137
De Wallace, Harry, assignor of two-thirds to J. H. Kilbane and J. M. McLellan, St. Paul, Minn. Engineer's alarm	623,503	Apr. 18	2398	551, 552	87	499
De Walt, John W., Tionesta, Pa. Bake-pan	623,077	Apr. 11	1598	368	87	326
De Wilde, Hubert, Gand, Belgium. Life-saving appliance	634,445	Oct. 10	901	217	89	197
De Witt, Edgar H., Sutton, Mass. Attachable runner for wagons	618,063	Jan. 24	2305	514	86	503
De Witt, Joseph R., assignor of two-thirds to M. Goggan and F. O. De Hymel, San Antonio, Tex. Blacking-brush	623,397	Apr. 18	2218	509	87	463
De Witt, Theodore F., Ovid, Mich. Farm-gate	639,963	Dec. 26	3285	752	89	2567
De Wolf, Caroline K., Cowesett, R. I. Game	638,220	Dec. 5	21	6	89	1871
De Wolfe, Almon C., Jackson, Mich. Sandpapering-machine	617,233	Jan. 3	710	165	86	139
De Yarmett, Edward C., and E. M. Haynes, Hampton, Va. Water-tube boiler	633,575	Sept. 26	2597	608	88	2259
Deadman, Jacob I., *et al.* (See Deadman, John F., assignor.)						
Deadman, John F., assignor of three-eighths to J. I. Deadman, F. R. Price, and D. K. Moses, Sault Ste. Marie, Mich. Horse-tie	625,747	May 30	3248	737	87	1412
Deal, Josiah J., assignor, by mesne assignments, to Ideal Manufacturing Co., Canton, Ohio. Toy	636,767	Nov. 14	1031	220	89	1157
Dean Brothers Steam Pump Works. (See Dean, John C., assignor.)						
Dean, Charles H. (See Hickey, Thomas F., assignor.)						
Dean, Colonel F., Carmel, N. Y. Barrel-cover-tie holder	625,152	May 16	2190	497	87	1163
Dean, George O., assignor of one-half to A. C. Hampton, San Francisco, Cal. Reversible window	637,502	Nov. 21	2456	533	89	1451
Dean, James H., assignor to R. F. Hersey and G. R. Finch, St. Paul, Minn. Voting-machine	622,191	Mar. 28	3074	696, 697, 698	86	2139
Dean, James H., assignor to R. F. Hersey and G. R. Finch, St. Paul, Minn. Voting-machine	622,192	Mar. 28	3090	698, 699, 700, 701	86	2145
Dean, James H., assignor to R. F. Hersey and G. R. Finch, St. Paul, Minn. Voting-machine	622,193	Mar. 28	3117	701	86	2153
Dean, James H., assignor to R. F. Hersey and G. R. Finch, St. Paul, Minn. Voting-machine	636,730	Nov. 7	913	203, 204	89	1110
Dean, John C., assignor to Dean Brothers Steam Pump Works, Indianapolis, Ind. Hydraulic pump	625,291	May 16	2439	555	87	1209
Dean, John C., assignor to Dean Brothers Steam Pump Works, Indianapolis, Ind. Steam-pump regulator	627,771	June 27	2901	634	87	2237
Dean, John C., assignor to Dean Brothers Steam Pump Works, Indianapolis, Ind. Steam-engine	632,677	Sept. 5	876	204, 205	88	1883
Dean, John H. (See Nei, Daniel, assignor.)						
Dean, John K., Indianapolis, Ind. Steam-pump-valve-actuating mechanism	626,652	June 6	782	178	87	1766

Alphabetical list of patentees—Continued.

Name, residence, and invention.	No.	Date.	Monthly volume.		Official Gazette.	
			Spec.	Dr'g.	Vol.	Page.
Dean, Samuel, Topeka, Ind. Carpenter's gage	638,446	Dec. 5	498	101	89	1962
Dean, Seward A., Minneapolis, Minn. Time-recorder	622,795	Apr. 11	1094	254, 255	87	227
Dean, Wallace E., Huntsville, Ala. Auxiliary governor	631,778	Aug. 29	3821	851, 852	88	1535
Dean, William W., assignor to American Bell Telephone Company, Boston, Mass. Telephone-exchange switch and signal apparatus	617,145	Jan. 3	553	131	86	108
Deane, Francis B., Lynchburg, Va. Compressing-machine	629,716	July 25	3273	763, 764	88	692
Deane, Francis B., Lynchburg, Va. Bale-covering	635,672	Oct. 24	3167	729	89	672
Deane, Gardiner A. A., *et al.* (See Thompson, Mary E., assignor.)						
Deans, John W., Selby, England. Handle-bar for cycles	617,565	Jan. 10	1347	303	86	281
Dearborn, Charles A., New York, N. Y., assignor of two-thirds to J. W. Hyde, Springfield, Mass., and C. T. Clark, Newark, N. J. Sewing-machine	639,669	Dec. 19	2731	628	89	2439
Dearborn, John E., Nashua, N. H. Lock-mortising machine	631,202	Aug. 15	2734	619	88	1295
Deaton, James C., Jr. (See Morris, John O., assignor.)						
Deaton, Noah G., Buford, Ga. Collar-stuffing machine	636,496	Nov. 7	457	102	89	1013
Deborde, Julius, Berlin, Germany. Elastic filling material for cycle-tires, &c	617,230	Jan. 3	699	163	86	137
Debremond, Charles, assignor to A. A. Smithwick, New Orleans, La. Device for handling coins	626,528	June 6	565	131, 132	87	1724
Decatur Car Wheel Manufacturing Company. (See Taylor, Thomas B., assignor.)						
Decelle, Jerry D., Fort Collins, Colo. Hoof-trimming nippers	630,670	Aug. 8	1799	405	88	1086
Decelle, Jerry D., Fort Collins, Colo. Vise attachment	631,538	Aug. 22	3362	764	88	1436
Dechery, Jean B., Fismes, France. Thermocauterizer	634,613	Oct. 10	1194	282, 283	89	254
Deck, Henry, Philadelphia, Pa., assignor to J. Braun & Sons. Adjustable ball-bearing for lawn-mowers	637,987	Nov. 28	3721	783	89	1761
Deckard, Stephen J., assignor of one-half to H. S. Carpenter, Hamilton, Ohio. Facial vaporizer	622,209	Apr. 4	22	5	87	7
Deckelmann, John, Chicago, Ill. Rotary engine	638,914	Dec. 12	1350	308	89	2150
Decker, Edwin S., New York, N. Y., assignor to Steel Cable Engineering Company, of Maine. Conveyer and bucket therefor	630,799	Aug. 8	2002	453	88	1127
Decker, Edwin S., Boston, Mass., assignor to Steel Cable Engineering Company, of Maine. Conveying apparatus	630,801	Aug. 8	2008	454	88	1128
Decker, Edwin S., New York, N. Y., assignor to Steel Cable Engineering Company, of Maine. Conveyer	630,802	Aug. 8	2011	454, 455	88	1129
Decker, Edwin S., Boston, Mass., assignor to Steel Cable Engineering Company, of Maine. Endless conveyer	630,803	Aug. 8	2013	455	88	1129
Decker, Edwin S., Boston, Mass., assignor to Steel Cable Engineering Company, of Maine. Conveyer	630,804	Aug. 8	2015	455	88	1130
Decker, Edwin S., Boston, Mass., assignor to Steel Cable Engineering Company, of Maine. Conveying apparatus	630,805	Aug. 8	2017	456	88	1131
Decker, Edwin S., Boston, Mass., assignor to Steel Cable Engineering Company, of Maine. Cable-coupling	630,806	Aug. 8	2020	456	88	1131
Decker, George W., Newport, Ark. Car-loading apparatus	621,043	Mar. 14	968	210, 211	86	1701
Decker, Henry E., New York, N. Y. Bottle-washer	640,111	Dec. 26	3548	815	89	2621
Decker, Newman, Hillsville, Ky. Churn	623,076	Apr. 11	1597	368	87	325
Decker, Rudolph J. (See Hoppenstedt and Decker.)						
Decker, Ward, Owego, N. Y. Automatic telephone-exchange system	626,983	June 13	1431	315, 316	87	1910
Declercq, Jules, Roubaix, France. Malting apparatus	625,651	May 23	3068	699	87	1359
Decrow, David A., assignor of one-half to Holly Manufacturing Company, Lockport, N. Y. Pumping-engine	620,644	Mar. 7	191	39, 40	86	1539
Dederick, Peter K., Albany, N. Y. Baling-press	625,436	May 23	2701	615, 616	87	1286
Dederick, Peter K., Loudonville, N. Y. Bale-tie	628,197	July 4	442	105	88	89
Dederick, Peter K., Loudonville, N. Y. Baling-press	628,452	July 11	941	219	88	200
Dedrick, Nicholas. (See Koenig and Dedrick.)						
Deeg, Martin. (See Virtue and Deeg.)						
Deegan, Thomas F., *et al.* (See Westwood, John T., assignor.)						
Deem, Addison P. S., and H. L. Minsker, Charleston, W. Va. Display device	637,714	Nov. 21	3217	669	89	1640
Deems, Joshua B., Dankins, Colo. Cover or roof for protecting grain or hay	621,798	Mar. 28	2347	526	86	1996
Deere & Company. (See Poole, Staley D., assignor.)						
Deere & Company. (See Tedell, John, assignor.)						
Deere & Mansur Company. (See Hunt and Friberg, assignors.)						
Deering Harvester Company. (See Butterfield, William, assignor.)						
Deering Harvester Company. (See Ellis, George H., assignor.)						
Deering Harvester Company. (See Pitkin, Julian H., assignor.)						
Deering Harvester Company. (See Rand, Charles A. A., assignor.)						
Deering Harvester Company. (See Stone, John A., assignor.)						
Deering Harvester Company. (See Whitney and Steward, assignors.)						
Deering, Mark L., assignor to F. H. Stillman, New York, N.Y. Towing-machine for vessels	619,073	Feb. 7	520	110	86	911
Deering, Mark L., assignor to F. H. Stillman, New York, N. Y. Towing-machine	619,074	Feb. 7	523	110, 111	86	912
Deerwester, Alva, Culver, Mo. Hog-ring	617,146	Jan. 3	557	131	86	109
Deerwester, Alva, Culver, Mo. Egg-case	621,044	Mar. 14	971	211	86	1701
Deeter, Thomas H., El Dorado, Kans. Kafir-corn harvester	627,298	June 20	1990	438	87	2040
Defiance Machine Works. (See Ensign, George A., assignor.)						
Defiance Machine Works. (See Seymour, Charles, assignor.)						
Degen-Breckeukamp Manufacturiug Company. (See Speirs, Albert S., assignor.)						
Degges, William H., Washington, D. C. Game-board and apparatus therefor	621,799	Mar. 28	2348	526	86	1996
Deham, Jean B. (See L'Hoir and Deham.)						
Dehan, Felix. (See Neave and Dehan.)						
Dehn, George J., Iron Mountain, Mich. Apparatus for cleaning water-heaters	620,231	Feb. 28	2626	597	86	1375
Deibel, Lewis J. (See Conrad, Jacob, assignor.)						
Deimel, Fritz. (See Martini and Deimel.)						
Deimel, Rudolph. (See Jones, Herbert C., assignor.)						
Deissler, Robert, Treptow, Germany. Composition for and method of heating metal parts	623,239	Apr. 18	1929	------	87	404
Deiters, Harry A., Spencer, W. Va., assignor of one-half to O. Barth, Cooleville, Ohio. Wrench	634,661	Oct. 10	1275	301	89	272
Deitz, Henry, assignor to Deitz Manufacturing Company, Denver, Colo. Stopper or closure	621,296	Mar. 14	1415	313	86	1788
Deitz, Henry, assignor to Deitz Manufacturing Company, Denver, Colo. Hose mender or coupling	626,210	May 30	4207	956	87	1591

Alphabetical list of patentees—Continued.

Name, residence, and invention.	No.	Date.	Monthly volume.		Official Gazette.	
			Spec.	Dr'gs.	Vol.	Page.
Deitz Manufacturing Company. (See Deitz, Henry, assignor.)						
Deitzel, Harry J., Carlisle, Pa. Thumb-lever hinge for lids	638,219	Dec. 5	19	6	89	1871
Deja, Bernhard, New York, N. Y. Music-leaf turner	636,426	Nov. 7	337	76	89	989
Deknatel, Frederick H., Chicago, and C. J. Spruce, Austin, assignors to Mackie-Lovejoy Manufacturing Company, Chicago, Ill. Bicycle-pump	636,118	Oct. 31	4064	929	89	861
Dela Mar, Joseph, New York, N. Y. Manufacture of paper friction-matches	632,781	Sept. 12	1090	252, 253	88	1938
Dela Mar, Joseph, assignor of one-half to A. Anderson, Jr., New York, N. Y. Seal	625,836	May 30	3430	779	87	1447
Dela Mar, Joseph, assignor of one-half to A. Anderson, Jr., New York, N. Y. Seal	625,837	May 30	3432	779	87	1447
Dela Mar, Joseph, assignor of three-fourths to R. V. Ingersoll, New York, N. Y., and A. Anderson, Jr., Jersey City, N. J. Type-writer	623,502	Apr. 18	2397	550, 551	87	499
Dela Mar, Joseph, assignor of one-half to I. Lewis, New York, N. Y. Cigar-bunch machine	635,920	Oct. 31	3659	844, 845	89	781
Delaet, Celesten, Shelby, Nebr. Weighing-machine	628,926	July 18	1839	428	88	395
Delahay, Thomas, Pembroke, Canada. Grinding-machine	630,451	Aug. 8	1401	313	88	1010
Delane, Anson W., assignor of one hundred and fifty-one two-hundredths to J. A. Scriven, New York, N. Y. Chainless cycle	628,453	July 11	942	219	88	201
Delane, John. (See Stuempfle and Delane.)						
Delaney, James G., New York, N. Y. Conveying apparatus	636,768	Nov. 14	1032	221	89	1157
Delaney, Nelson, Maroa, Ill. Cultivator	639,890	Dec. 26	3141	722, 723	89	2536
Delano, Frederic A. (See Smith and Delano.)						
Delano, Lewis P., St. Louis, Mo. Journal-bearing	627,985	July 4	49	9	88	12
Delaria, Dennie. (See Shepherd and Delaria.)						
Delattre, Jules, Dorignies, France. Apparatus for purifying washwaters from wool	633,688	Sept. 26	2816	655	88	2299
Delattre, Jules, Roubaix, France. Apparatus for purifying waste water	636,497	Nov. 7	458	102	89	1013
Delehanty, Francis B. (See Bowers, Charles C., assignor.)						
Delette, Eugène, Lure, France. Combing-machine for textile materials	620,747	Mar. 7	403	82	86	1580
Delette, Eugène, Lure, France. Combing-machine for textile materials	625,967	May 30	3671	833, 834	87	1492
Delgado y Aguilár, José, New York, N. Y. Fire-escape	629,228	July 18	2370	550	88	497
Dellone, Fred C., Chicago, Ill., assignor to J. E. Bohner, New York, N. Y. Hydrocarbon incandescent lamp	634,432	Oct. 3	872	211	89	175
Dellwik, Carl, Stockholm, Sweden, assignor to J. E. Goldschmid, Frankfort-on-the-Main, Germany. Manufacturing water-gas	636,899	Nov. 14	1275	274, 275	89	1206
Delorieux, John, San Francisco, assignor of one-half to A. Toulouse, Golden Gate, Cal. Awning	631,065	Aug. 15	2503	566	88	1249
Delphin, Joseph. (See Beaven and Delphin.)						
Demaria, Francesco, and C. Ranzini, assignors of three-fifths to F. Zunino, F. Valente, and S. Cuneo, New York, N. Y. Acetylene-gas generator	631,156	Aug. 15	2661	602	88	1279
Demarest, David C., Angel's Camp, Cal. Suction-valve	625,292	May 16	2441	555	87	1209
Demarest, Dewitt C., Passaic, N. J., assignor to Eagle Pencil Company, of New York. Fountain-pen	634,398	Oct. 3	812	196	89	162
Demarest, John, Malden, Mass. Combined steam and hot-air heater	624,189	May 2	449	93	87	786
Dement, Isaac S., and C. F. Bassett, Chicago, Ill. Mechanical cashier	618,932	Feb. 7	220	49, 50, 51	86	847
Demmer, Ewald, assignor of one-half to R. Disselkamp, Barmen, Germany. Stove for lignite cakes, peat, &c	621,800	Mar. 28	2350	526	86	1997
Demorest, David A., Chicago, Ill. Folding egg-case	627,745	June 27	2860	625	87	2229
Dempsey, John R. (See Walter, Edward, assignor.)						
Dempsey, Patrick A. (See Ryan, Patrick J., assignor.)						
Dempster, Alexander R., and W. D. Rinehart, assignors to Dempster Manufacturing Company, Des Moines, Iowa. Windmill-brake	637,326	Nov. 21	2136	460	89	1387
Dempster, Alexander R., and W. D. Rinehart, assignors to Dempster Manufacturing Company, Des Moines, Iowa. Tank-valve	639,218	Dec. 19	1895	437	89	2268
Dempster, Charles B., F. H. Kline, and R. H. Sleister, assignors to Dempster Mill Manufacturing Company, Beatrice, Nebr. Press-drill	624,913	May 16	1770	399, 400	87	1085
Dempster, James H., Des Moines, Iowa. Two-row wheel-cultivator	627,986	July 4	50	10	88	12
Dempster Manufacturing Company. (See Dempster and Rinehart, assignors.)						
Dempster Mill Manufacturing Company. (See Dempster, Kline, and Sleister, assignors.)						
Dempster, Robert, Venice, Ill., assignor of one-half to G. L. Graham, St. Louis, Mo. Grain drier or steamer	626,148	May 30	4089	932	87	1568
Demuth, Robert, Elberfeld, Germany, assignor to Farbenfabriken of Elberfeld Company, of New York. Blue cotton dye	620,428	Feb. 28	2956	------	86	1438
Demuth, William. (See Kurth and Masters, assignors.)						
Denayrouze, Louis, Paris, France. Incandescent gas-lamp	621,962	Mar. 28	2657	599	86	2055
Denbigh, Arthur R., Liverpool, England. Protector for cycle-frames	629,667	July 25	3181	742	88	675
Denekas, Anthony, Washington, D. C. Spool-holder	637,093	Nov. 14	1659	359	89	1280
Dengler, William I., New York, N. Y. Guard or clip for eyeglasses	636,498	Nov. 7	460	103	89	1013
Denis, Edward, Green Bay, Wis. Suspenders	617,926	Jan. 17	2046	458	86	439
Denison, Arthur E., *et al.* (See Robinson, Thomas C., assignor.) (Reissue.)						
Denison, Charles L., Buffalo, N. Y. Manifolding sales-book	631,107	Aug. 15	2579	583	88	1263
Denison, Charles L., Buffalo, N. Y. Manifolding sales-book	631,108	Aug. 15	2581	583	88	1263
Denison, Mary J., Shauck's, Ohio. Flour-sifter	619,872	Feb. 21	1999	454	86	1243
Denison, Nathan B., Pawtucket, R. I. Boot or shoe clamping device	627,576	June 27	2547	561	87	2165
Denison, Wellington I. (See Heckman, Harriet V., assignor.)						
Denman, Clinton V. (See Stewart, Denman, and Worth.)						
Denmead, John W. (See Palmer and Denmead.)						
Dennee, William B., *et al.* (See Rapp, Nathaniel and R., Jr., assignors.)						
Denney, Samuel L., Atlantic City, N. J. Divided car-axle	618,200	Jan. 24	2579	570	86	553
Denney, Samuel L., Atlantic City, N. J. Divided car-axle	633,183	Sept. 19	1850	436	88	2098
Denning, Joseph M., Estherville, Iowa. Wire fence	617,084	Jan. 3	428	104	86	83
Denning, Newton, Hutchinson, Kans. Corn harvester and shocker	632,648	Sept. 5	799	186, 187	88	1866
Dennis, Frederick W., assignor of one-half to J. F. Lester, Atlanta, Ga. Garbage cremator or calciner	631,457	Aug. 22	3209	728, 729	88	1406
Dennis, Samuel K., assignor to Plano Manufacturing Company, Chicago, Ill. Cord-holder	624,190	May 2	450	93, 94	87	786
Dennis, Samuel K., assignor to Plano Manufacturing Company, Chicago, Ill. Apparatus for founding cord-holders, &c., consisting of malleable or annealed iron having chilled portions	624,191	May 2	451	94, 95	87	786
Dennis, Samuel K., assignor to Plano Manufacturing Company, Chicago, Ill. Truck for grain-binders	630,332	Aug. 8	1131	247	88	960
Dennis, Samuel K., assignor to Plano Manufacturing Company, Chicago, Ill. Hay-rake	635,751	Oct. 31	3324	768, 769	89	716

Alphabetical list of patentees—Continued.

Name, residence, and invention.	No.	Date.	Monthly volume. Spec.	Monthly volume. Drg.	Official Gazette. Vol.	Official Gazette. Page.
Dennis, Walter E., New York, N. Y. Electric-arc lamp	618,848	Feb. 7	51	11	86	814
Dennis, William L., Birmingham, England. Prepayment or coin-in-the-slot machine	640,112	Dec. 26	3549	815 816	89	2621
Dennison Manufacturing Company. (See Buxton, Charles H., assignor.)						
Deuoyer, Achille J., Moret, France. Paper-bag machine	627,397	June 20	2210	485 486 487 488	87	2083
Densmore, Charles, assignor of two-thirds to C. H. Anderson and D. W. Robinson, Pierre, S. D. Earth-auger	633,574	Sept. 26	2596	608	88	2258
Densmore, Edward D., Somerville, and G. Le Clear, Cambridge, Mass. Pressure-gage	622,761	Apr. 11	1042	241	87	218
Deusmore Typewriter Compauy. (See Barron, Walter J., assignor.)						
Deut, William. (See Stearns, Wesley R., assignor.)						
Dental Manufacturing Company. (See Sonnex, Richard W., assignor.)						
Dentenax (Holdfast-Tooth) Company. (See Campbell, John S., assignor.)						
Dentler, Frank, Parkville, Mich. Grain measuring and bagging machine	632,253	Sept. 5	78	18	88	1723
Denton, Kimbro T., *et al.* (See Moore, John T., assignor.)						
Denton, Lemi B., Grand Rapids, Mich., assignor to Michigan Vapor Stove Company, of Michigan. Holder for caster-sockets	633,755	Sept. 26	2930	681	88	2322
Denver Engineering Works Company. (See Sicka, Louis T., assignor.)						
Denyes, Gaylard W., and O. Schutt, Dowagiac, Mich. Shoe for grain-drills	635,752	Oct. 31	3327	769	89	716
Denyes, Gaylard W., and O. Schutt, Dowagiac, Mich. Grain-drill	637,767	Nov. 28	3312	693	89	1677
Denzig, Richard M., Elkhart, Ind. Writing-case	636,119	Oct. 31	4066	929	89	861
Depersenaire, Elisé, New York, N. Y. Folding go-cart	639,670	Dec. 19	2737	629	89	2440
Depew, Frank L., Brookline, Mass. Centrifugal machine	626,597	June 6	678	156 157	87	1746
Depew, George M., Canandaigua, N. Y. Hoop	626,678	June 13	842	192	87	1797
Deplanty, Charles F., aud H. Schockmann, Coffeyville, Kans. Neck-yoke center	629,065	July 18	2085	486	88	443
Deptner, Hugo, Detta, Austria-Hungary. Carving device	634,287	Oct. 3	601	147	89	120
Depue, Michael H. (See Kidd and Depue.)						
Depue, Oscar B., Chicago, Ill. Kinetographic camera	622,451	Apr. 4	447	104 105	87	83
Depuy, Gilbert L. (See Hays and Depuy.)						
Derbyshire, Henry J., Columbus, Ohio. Line-casting machine	621,329	Mar. 21	1479	328	86	1814
Derbyshire, Henry J., Columbus, Ohio. Linotype-casting machine	635,305	Oct. 24	2453	570	89	533
Derby, John H., assignor to E. D. Chadwick, trustee, Boston, Mass. Automatic valve	625,748	May 30	3251	738	87	1412
Derdeyn, Hector, Roulers, Belgium. Belt-fastener	624,760	May 9	1480	336	87	1011
Déri, Max, Vienna, Austria-Hungary. Combined alternating continuous current system for electric traction	626,984	June 13	1439	317	87	1911
Déri, Max, Vienna, Austria-Hungary. Alternating-current motor	630,489	Aug. 8	1467	328	88	1023
Déri, Max, Vienna, Austria-Hungary. Dynamo-electric machine and operating same	630,490	Aug. 8	1469	328	88	1023
Déri, Max, Vienna, Austria-Hungary. Combined alternatiug and continuous current system of distribution	630,491	Aug. 8	1471	329	88	1023
Déri, Max, Vienna, Austria-Hungary. Arrangement for exciting magnets of dynamo-electric machines	630,492	Aug. 8	1473	330	88	1024
Dermody, Thomas J. H., Chicago, Ill. Tandem attachment for bicycles	637,768	Nov. 28	3313	693 694	89	1678
Dern, Samuel J., Prairie Depot, Ohio. Nut and pipe wrench	633,640	Sept. 26	2727	635	88	2281
Dery, Felix. (See Mathieu and Dery.)						
Des Anges, Henry L., Hoboken, N. J., assignor of one-half to G. W. Colles, Boston, Mass. Railway-rail bond	620,865	Mar. 7	613	134	86	1623
Des Brisay, James, New Westminster, Canada. Can-capping machine	636,120	Oct. 31	4067	930 931	89	862
Des-Fours, Arthur, Zurich, Switzerland. Boat-lowering apparatus	631,066	Aug. 15	2505	567	88	1250
Des Isles, Leonard H., Boston, Mass. Electric thermostat	630,671	Aug. 8	1800	406	88	1086
Deschambault, Aquila, Marshall, Minn. Ironing-board	634,399	Oct. 3	813	197	89	162
Descher, Eugène. (See Ollagnier, Fructus, and Descher.)						
Desjardins, Charles A. R., St. André, Canada. Horse-power	635,956	Oct. 31	3717	859	89	791
Desmarais, Léon, and L. Canal, Paris, France. Apparatus for weaving	626,149	May 30	4093	933	87	1569
Desmond, John. (See Kaczander, Desmond, and Ruddy.)						
Desmond, John, New York, N. Y. Steam-injector	626,150	May 30	4096	934	87	1569
Desmond, John, assignor to Lunkenheimer Company, Cincinnati, Ohio. Injector	636,499	Nov. 7	461	103	89	1014
Desmond, John, assignor to himself, S. Sander, and G. E. Haffner, New York, N. Y. Lubricator for steam-boilers	619,677	Feb. 14	1600	366	86	1140
Desoe, Samuel, Willow City, N. D. Hay-rack	625,096	May 16	2104	478	87	1147
Desrosiers, Narcisse. (See Paradis aud Desrosiers.)						
Deterding, Henry F., Commerce, Mo. Perennial-weed exterminator	620,429	Feb. 28	2957	678	86	1439
Detert, Herman T., Fairbault, Minn. Device for attaching hooks, &c., to straps	630,193	Aug. 1	861	185	88	892
Detheridge, Isaac, Fame, Kans. Cultivator	622,996	Apr. 11	1458	336	87	297
Dethier, Jacques. (See Masion and Dethier.)						
Dethlefs, Marx C., Willows, Cal. Revolving plow	620,285	Feb. 28	2717	623 624	86	1394
Detrick & Harvey Machine Company. (See Detrick and Easby, assignors.)						
Detrick, Jacob S., Baltimore, Md. Machine for making all-tobacco cigarettes	620,892	Mar. 14	661	144 145	86	1645
Detrick, Jacob S., and F. H. Easby, assignors to Detrick & Harvey Machine Company, Baltimore, Md. Machine for finishing nuts	631,109	Aug. 15	2582	583 584	88	1263
Detroit Automatic Switch Company. (See Ruff, Frederick A., assignor.)						
Detroit Lawn Mower Company. (See Maynard, Frederick T., assignor.)						
Detroit Pipe Carrier Company. (See Welliston, Benjamin F., assignor.)						
Detroit Sanitary Supply Company. (See Hay, Peter D., assignor.)						
Detroit Sheet Metal and Brass Works. (See McCoy, Elijah, assignor.)						
Detroit Sheet Metal and Brass Works. (See McMillan, Gilbert N., assignor.)						
Detwiller & Street Fireworks Manufacturing Company. (See Shields, David, assignor.)						
Deübner, John W., assignor to Chicago Time Register Company, Chicago, Ill. Workmau's time-recorder	633,126	Sept. 19	1743	411 412	88	2076
Deuther, James A., Boston, Mass. Electric furnace	616,906	Jan. 3	74	15, 16	86	16
Deuther, James A., Boston, assignor to J. Joyce, trustee, Andover, Mass. Acetylene-gas generator	619,146	Feb. 7	664	143	86	941
Deutsch, Isidor, Baltimore, Md. Automatic device for operating electric switches	633,095	Sept. 12	1676	394	88	2053
Deutsch, Sigmund, assignor to J. H. Hagedorn, D. Merz, and J. H. Hagedoru, Philadelphia, Pa. Neckband for shirts	626,985	June 13	1441	317	87	1912
Deutsch, William M., Elizabeth, N. J. Filter	628,884	July 11	1751	409	88	361
Dever, Daniel. (See Wilkins and Dever.)						
Devereux, Walter B., New York, N. Y. Calcining-furnace	628,077	July 4	215	49, 50	88	43
Devilliers, Villiers C., assignor to M. J. Moreau, Opelousas, La. Pea-rake	635,277	Oct. 17	2400	558 559	89	507

Alphabetical list of patentees—Continued.

Name, residence, and invention.	No.	Date.	Monthly volume. Spec.	Monthly volume. Dr'g.	Official Gazette. Vol.	Official Gazette. Page.
Devine, David R. C., assignor of one-half to I. F. Hoffner, Philadelphia, Pa. Wheel for bicycles	626,411	June 6	367	86	87	1685
Devine, John C., *et al.* (See Schaefer, William and J., assignors.)						
Devine, Joseph E. (See Durham and Devine.)						
Devitt, John. (See Francis, Joseph R., assignor.)						
Devlin & Co., Thomas. (See Scott, Robert, assignor.)						
Devlin, James C., Hernando, Miss. Car-brake	617,722	Jan. 17	1636	368	86	358
Devlin, James C., Hernando, Miss. Street-car truck	630,866	Aug. 15	2129	482, 483	88	1176
Devling, Robert E., Sterling Run, Pa. Wagon-brake	619,284	Feb. 14	930	210	86	1011
Devore, Clark A. W. and D., Monongahela City, Pa. Billiard-cue chalker	617,231	Jan. 3	700	163	86	137
Devore, Daniel B., Washington, D. C. Feeder for steam-boiler furnaces	623,993	May 2	74	16	87	716
Devore, David. (See Devore, Clark A. W. and D.)						
Devore, James A. (See Power and Devore.)						
Devore, Levi M., Freeport, Ill. Spring-hinge	625,721	May 23	3181	723	87	1381
Devore, Levi M., Freeport, Ill. Fastener for cords	639,962	Dec. 26	3285	751	89	2567
Devore, Levi M., assignor to Arcade Manufacturing Company, Freeport, Ill. Lemon-squeezer	625,838	May 30	3433	779	87	1447
Dewdney, George F., Cardiff, England. Metal chest, box, or the like	631,539	Aug. 22	3363	764	88	1437
Dewees, William H. (See Higgins, Sylvester W., assignor.)						
Dewes, Abednego, New York, N. Y., and A. Shedlock, Jersey City, N. J.; said Shedlock assignor to said Dewes. Manual-power press	617,147	Jan. 3	558	132	86	109
Dewey, Mark W., Syracuse, N. Y. Electric heater	629,153	July 18	2253	522	88	476
Dewhurst, Albert J., Mellor, and E. B. Smith, Manchester, England. Means for sealing liquid-containing vessels and removing contents therefrom	625,384	May 23	2607	593	87	1268
Dexter, Charles, assignor of one-half to W. S. Long, St. Louis, Mo. Vapor-burner	626,986	June 13	1442	317	87	1912
Dexter Folder Company. (See Dexter, Talbot C., assignor.)						
Dexter Folder Company. (See Dexter, Talbot C., assignor.) (Reissue.)						
Dexter, Talbot C., Pearl River, N. Y. Paper assembling and stapling machine	618,648	Jan. 31	3403	757, 758, 759, 760	86	725
Dexter, Talbot C., Pearl River, N. Y. Paper-feeding machine	620,841	Mar. 7	562	121, 122, 123, 124	86	1612
Dexter, Talbot C., Pearl River, N. Y. Paper-feeding machine	623,769	Apr. 25	2865	656, 657, 658, 659, 660	87	607
Dexter, Talbot C., Pearl River, N. Y. Paper-feeding machine	623,770	Apr. 25	2887	660, 661, 662, 663, 664	87	611
Dexter, Talbot C., Pearl River, N. Y. Slitting and registering sheets of paper	625,093	May 16	2085	470, 471, 472	87	1143
Dexter, Talbot C., Pearl River, N. Y. Delivery-guard for paper-feeding machines	625,094	May 16	2094	472, 473, 474, 475, 476	87	1145
Dexter, Talbot C., Pearl River, N. Y. Paper assembling and stapling machine	632,448	Sept. 5	431	95, 96	88	1791
Dexter, Talbot C., Pearl River, N. Y. Paper-feeding machine	636,769	Nov. 14	1033	221, 222, 223	89	1157
Dexter, Talbot C., Pearl River, assignor to Dexter Folder Company, New York, N. Y. Paper-registering mechanism. (Reissue)	11,723	Mar. 14	1446	319, 320	86	1794
Dexter, Talbot C., Pearl River, assignor to Dexter Folder Company, New York, N. Y. Paper-registering instrument	625,092	May 16	2082	468, 469, 470	87	1142
Dexter, Talbot C., Pearl River, assignor to Dexter Folder Company, New York, N. Y. Paper-registering instrument	625,095	May 16	2102	476, 477	87	1146
Dexter, Talbot C., Pearl River, assignor to Dexter Folder Company, Pearl River and New York, N. Y. Back stop for paper-folding machines	632,447	Sept. 5	429	95	88	1791
Dexter, Talbot C., Pearl River, assignor to Dexter Folder Company, New York, N. Y. Paper-registering instrument	632,449	Sept. 5	435	97, 98	88	1793
Dexter, Talbot C., Pearl River, assignor to Dexter Folder Company, New York, N. Y. Paper-registering instrument	632,450	Sept. 5	438	98, 99	88	1793
Dexter, William H., assignor of one-half to M. D. Howe, Delmar, Pa. Carpet-stretcher	639,718	Dec. 26	2831	653	89	2476
Dey, Alexander. (See Dey, John and A.)						
Dey, John, Syracuse, N. Y., and A. Dey, Glasgow, Scotland. Workman's time-recorder	621,994	Mar. 28	2721	614, 615, 616	86	2068
Dey, John S., Cranbury, N. J. Brake for scale-supports	621,330	Mar. 21	1481	329	86	1814
Di Brazza Postal Device and Lock Company. (See Savorgnan, Detalmo di B., assignor.)						
Di Carlo, Joseph, *et al.* (See Mauro, Giovanni, assignor.)						
Dial, Wilbur F., and G. H. Dimond, assignors to Wheeler & Wilson Manufacturing Company, Bridgeport, Conn. Sewing-machine	619,250	Feb. 7	853	187	86	979
Diamond Match Company. (See Palmer and Denmead, assignors.)						
Diamond Match Company. (See Wright, Jacob P., assignor.)						
Diamond Meter Company. (See Scheeffer, Gustave A., assignor.)						
Diamond Soda Water Manufacturing Company. (See Malmstrom, Peter E., assignor.)						
Diamond State Iron Company. (See Griffith, Asa W., assignor.)						
Diamond Truck and Car Gear Company. (See Wilkinson and Gee, assignors.)						
Diamond Wood Company. (See Hindley and Harding, assignors.)						
Diaz, George, Mexico, Mexico. Grinding-machine	635,753	Oct. 31	3328	769	89	717
Dice, Charles G. (See Holyland and Dice.)						
Dice, John R., Allegheny, Pa. Spike	635,846	Oct. 31	3509	806	89	752
Dick, Albert B. (See Dyer, Frank L., assignor.)						
Dick, Alexander, Meridian, N. Y. Addressing-machine	629,241	July 18	2391	554	88	500
Dick, Emil. (See Brown and Dick.) (Reissue.)						
Dick, Franz, Benrath, Germany. Bell for velocipedes	638,323	Dec. 5	255	53	89	1915
Dick, Joseph, Canton, Ohio. Stovepipe-coupling	627,987	July 4	54	10	88	12

Alphabetical list of patentees—Continued.

Name, residence, and invention.	No.	Date.	Monthly volume. Spec.	Monthly volume. Dr'g.	Official Gazette. Vol.	Official Gazette. Page.
Dickerboom, Frederick, assignor to O. W. Schmidt, Mankato, Minn. Means for detaching harness from shafts	625,652	May 23	3070	699	87	1359
Dickerman, Daniel F., and M. Moore, Nocona, Tex. Stirrup	627,328	June 20	2057	453	87	2054
Dickerson, Edward N. (See Kendall, Edward D., assignor.)						
Dickerson, Edward N. (See Pike, Frederick N., assignor.)						
Dickerson, Edward N. (See Raders, Joseph F., assignor.)						
Dickerson, Edward N. (See Stark, Ferdinand, assignor.)						
Dickerson, Edward N., *et al.* (See Vincent, Joseph A., assignor.)						
Dickerson, Edward N., New York, N. Y. Acetylene-gas-generating apparatus	623,994	May 2	76	17	87	716
Dickerson, Edward N., and J. J. Suckert, New York, N. Y. Producing and liquefying acetylene gas	629,669	July 25	3186	743	88	675
Dickerson, Edward N., and J. J. Suckert, New York, N. Y., assignors to United States Acetylene Liquefaction Company, of New York. Producing and liquefying acetylene gas	629,668	July 25	3182	742	88	675
Dickerson, Ernest C., San Antonio, Tex. Burner	631,622	Aug. 22	3517	792	88	1468
Dickerson, James H., assignor of one-half to B. S. Motley, Danville, Va. Sash-lift	623,890	Apr. 25	3134	722	87	658
Dickerson, Theodore T., Trimble, Ala. Barrel-truck	623,995	May 2	77	17	87	717
Dickey, Aaron F. (See Welch and Dickey.)						
Dickey, Adam, Boston, Mass. Molding-machine	621,801	Mar. 28	2351	527	86	1997
Dickey, George A., *et al.* (See Kendall, Elton P., assignor.)						
Dickey, Wallace C., Pittsburg, Pa. Manufacture of planished iron and steel	630,867	Aug. 15	2130	------	88	1176
Dickey, Wallace C., Pittsburg, Pa. Manufacture of planished iron and steel	639,537	Dec. 19	2483	------	89	2388
Dickinson, Charles. (See Douglass, Leon F., assignor.)						
Dickinson, Charles W., Belleville, N. J., assignor to Empire Type Setting Machine Company, of West Virginia. Machine for justifying and spacing type	633,309	Sept. 19	2086	489, 490, 491, 492, 493, 494, 495, 496	88	2144
Dickinson, Francke W. (See Cook, Francis L., assignor.)						
Dickinson, Francke W. (See Walkins, Louis E., assignor.)						
Dickinson, James W., Milwaukee, Wis. Device for driving emery-wheels	620,893	Mar. 14	663	145	86	1645
Dickinson, Joseph H., Detroit, Mich. Reed-organ	624,192	May 2	453	95	87	786
Dickinson, Marquis F., *et al.*, executors. (See Wormwood, Samuel P.)						
Dickinson, Sanford B., assignor to himself and J. A. Rogers, Corning, N. Y. Vehicle-track	619,678	Feb. 14	1602	366	86	1140
Dicks, Robert H. (See Gardner, George L., assignor.)						
Dicks, Thomas A., Buffalo, and W. A. Warman, Rochester, N. Y. Safety attachment for presses	618,064	Jan. 24	2307	515	86	503
Dicks, Thomas A., and W. A. Warman, Niagara Falls, N. Y. Safety attachment for presses	618,065	Jan. 24	2310	515, 516	86	504
Dickson, Archibald A., Toronto, Canada. Treating hydrous rock	620,894	Mar. 14	664	------	86	1645
Dickson, Archibald A., Toronto, Canada. Manufacturing peat into blocks of fuel	621,802	Mar. 28	2354	527	86	1998
Dickson, Archibald A., Toronto, Canada. Peat fuel	624,629	May 9	1253	------	87	966
Dickson, Archibald A., Toronto, Canada. Press	624,630	May 9	1254	280	87	966
Dickson, William D. (See Peavy and Dickson.)						
Dickson, William K. L., assignor to American Mutoscope and Biograph Company, New York, N. Y. Consecutive-view apparatus	636,500	Nov. 7	465	104	89	1014
Dickson, William K. L., assignor to American Mutoscope and Biograph Company, New York, N. Y. Consecutive-view apparatus	636,642	Nov. 7	742	162	89	1071
Diebold, Charles, Pittsburg, Pa. Apparatus for treating slag	628,399	July 4	840	197	88	161
Diebold Safe and Lock Company. (See Schoenfeld, Charles, assignor.)						
Dieckmann, Gustave A., Levasy, Mo. Fence-post	618,066	Jan. 24	2315	516	86	504
Diehl, Anthony W., Millheim, Pa. Bicycle-brake	623,996	May 2	78	17	87	717
Diehl, Charles, Philadelphia, Pa. Electrical fountain-brush	631,623	Aug. 22	3518	792	88	1468
Diehl, Gustav E., Chemnitz, Germany. Drilling apparatus	626,488	June 6	498	115	87	1710
Diehl, Jacob, assignor to Standard Sewing Machine Company, Cleveland, Ohio. Bobbin-case retainer for sewing-machine shuttles	635,162	Oct. 17	2199	513	89	469
Diehl, Max, Hanover, Germany. Dress-guard for ladies' cycles	622,997	Apr. 11	1459	337	87	297
Diehl, Philip, Elizabeth, N. J., assignor to Singer Manufacturing Company, of New Jersey. Treadle mechanism	630,194	Aug. 1	862	185	88	892
Diehl, Philip, Elizabeth N. J., assignor to Singer Manufacturing Company, of New Jersey. Lubricating cranks	634,204	Oct. 3	413	105	89	86
Diehl, Philip, and M. Hemleb, Elizabeth, N. J., assignors to Singer Manufacturing Company, of New Jersey. Sewing-machine trimmer	619,873	Feb. 21	2000	454	86	1243
Diehl, Philip, and M. Hemleb, Elizabeth, N. J., assignors to Singer Manufacturing Company, of New Jersey. Sewing-machine hemmer	623,891	Apr. 25	3135	722	87	658
Diehl, Philip, and M. Hemleb, Elizabeth, N. J., assignors to Singer Manufacturing Company, of New Jersey. Sewing-machine shuttle	627,104	June 20	1654	361	87	1972
Diehl, Philip, and M. Hemleb, Elizabeth, N. J., assignors to Singer Manufacturing Company, of New Jersey. Hemstitch sewing-machine	635,673	Oct. 24	3168	729, 730	89	672
Diehl, Philip, and F. Müller, Elizabeth, N. J., assignors to Singer Manufacturing Company, of New Jersey. Pitman	634,205	Oct. 3	415	105	89	86
Diem, Rudolf, Munich, Germany. Sand-distributer for locomotives	633,083	Sept. 12	1620	377	88	2042
Diemer, William, assignor to Gendron Wheel Company, Toledo, Ohio. Child's carriage	633,817	Sept. 26	3024	703	88	2342
Diers, Henry C. (See Wheelock, Walker, and Diers.)						
Dies, Charles A., and R. Lundgren, assignors of one-half to J. W. Peterson, Chicago, Ill. Expanding bung or stopper	625,653	May 23	3070	699	87	1359
Diesbach, Jeanne de, near Montdidier, France. Recovering glycerin	631,396	Aug. 22	3102	703	88	1385
Diescher, Samuel E., Pittsburg, Pa. Machine for bending structural shapes	629,496	July 25	2880	668, 669, 670, 671	88	616
Diescher, Samuel E., Pittsburg, Pa. Shaft-coupling	631,956	Aug. 29	4117	924, 925, 926	88	1594
Diescher, Samuel E., Pittsburg, Pa. Pulley and shaft coupling	631,957	Aug. 29	4119	927	88	1594
Dieter, John, Lockport, Ill. Clod-crusher	618,400	Jan. 31	2964	656, 657	86	642
Dieterich Gear Company. (See Dieterich, Ludwig M., assignor.)						
Dieterich, Ludwig M., Hartford, Conn., assignor to Dieterich Gear Company, New York, N. Y. Variable-power transmitter	634,327	Oct. 3	682	165	89	137
Dieterich, Neil B. (See Smyth and Dieterich.)						
Dietrich, C. Joseph, La Grange, assignor of one-half to F. H. Mitchell, Chicago, Ill. Hat-conformator	619,874	Feb. 21	2002	455	86	1244

Alphabetical list of patentees—Continued.

Name, residence, and invention.	No.	Date.	Monthly volume.		Official Gazette.	
			Spec.	Dr'g.	Vol.	Page.
Dietrich, Charles W., Chicago, Ill. Pipe-fitting	624,193	May 2	454	95	87	787
Dietrich, George J., J. Hufnagel, and J. Wolf, Buffalo, N. Y. Ice-cycle	639,672	Dec. 19	2741	629	89	2440
Dietrich, Robert, Merseberg, Germany. Separator for cellulose	617,983	Jan. 17	2133	477	86	455
Dietrich, Samuel W., assignor of forty-nine one-hundredths to R. W. Beebe, Terre Haute, Ind. Diphase electric motor	630,333	Aug. 8	1132	248	88	961
Dietz, Charles, Chicago, Ill. Car-coupling	625,385	May 23	2609	594	87	1269
Dietz, Conrad, Cincinnati, Ohio. Hinge	620,572	Mar. 7	33	7	86	1508
Dietz, Joseph H., Owatonna, Minn. Windmill power-equalizer	622,842	Apr. 11	1194	278	87	246
Digby, Wiley M., Simcoe, Ala. Harrow	619,285	Feb. 14	932	210	86	1011
Digges, Robert I. (See Judy, Harper, assignor.)						
Diggins, Bartholomew, Washington, D. C. Hammock-support and shelter-tent	638,174	Nov. 28	4096	864	89	1833
Diggs, James W., and A. Roettger, St. Louis, Mo. Convertible chair	618,067	Jan. 24	2316	517	86	504
Dikeman, Charles S., Torrington, Conn. Bicycle	631,282	Aug. 22	2893	654	88	1343
Dillenbeck, Jacob J., and E. Flueso, Pulaski, N. Y. Lock	639,219	Dec. 19	1896	437	89	2268
Dillman, Lee H., Parkland, Okla. Ter. Nut-lock	620,748	Mar. 7	405	83	86	1580
Dillon, Edward, *et al.* (See Morrison, Francis, assignor.)						
Dillon, George F. (See Landrum, Dillon, and Landrum.)						
Dillon, George F., Granville, Ohio. Acetylene-gas generator	634,722	Oct. 10	1390	327	89	294
Dillon, Irwin P., assignor of one-half to H. C. King, Lawrence, Mass. Calendering-machine	623,204	Apr. 18	1870	428, 429	87	392
Dillon, Peter, assignor of one-half to H. C. King, Lawrence, Mass. Refining-engine	621,298	Mar. 14	1417	313	86	1789
Dillon, Thomas, Wakefield, Mass. Ball-cock	623,706	Apr. 25	2766	633	87	587
Dils, Thomas M., Davenport, Iowa. Hot-air register	622,330	Apr. 4	233	52	87	44
Dilts, Robert A., Georgeville, Pa. Wagon-brake	634,400	Oct. 3	815	197	89	162
Dilts, Stokely D., Decatur, Ill. Combined pole and shade-roller hanger	629,323	July 18	2546	593	88	530
Dilworth, James M. (See Stoner, William H., assignor.)						
Dime, Gustave X., New York, N. Y. Fireproofing composition	627,988	July 4	55	------	88	12
Dimmock, Albert E., *et al.* (See Mallard, William S., assignor.)						
Dimock, Gordon C. (See Maxwell and Dimock.)						
Dimond, George H. (See Dial and Dimond.)						
Dines, Henry B., *et al.* (See Fogal, John E. W., assignor.)						
Dines, James P., Xenia, Ohio. Wheelwright-machine	620,108	Feb. 28	2412	545	86	1335
Dineson, Roger and P., Albion, Iowa. Nail-distributer	626,987	June 13	1444	317	87	1912
Dineson, Peter. (See Dineson, Roger and P.)						
Dingee, William W., assignor to J. I. Case Threshing Machine Company, Racine, Wis. Straw-stacker	620,232	Feb. 28	2627	598	86	1375
Dingley, Benjamin F., Jr., Providence, R. I. Machine for separating currants or like fruits	636,398	Nov. 7	287	64	89	978
Dingman, Allen H., De Haven, Pa. Screw-propeller	624,761	May 9	1481	336	87	1011
Dingman, Allen H., assignor of two-thirds to J. C. Grubbs and D. B. Dingman, De Haven, Pa. Lubricating device for steam-engine cylinders	632,104	Aug. 29	4402	988	88	1649
Dingman, David B., *et al.* (See Dingman, Allen H., assignor.)						
Dings, Alvin, assignor of one-half to D. Dings, Milwaukee, Wis., and A. Pew, Washington, D. C. Magnetic separator	628,078	July 4	218	50	88	44
Dings, David, *et al.* (See Dings, Alvin, assignor.)						
Dinkel, Andrew, Auburn, N. Y. Power-hammer	620,749	Mar. 7	405	83	86	1580
Dinkelberg, Frederick P., New York, N. Y. Elevated railway	634,807	Oct. 10	1526	358, 359	89	320
Dinkey, Alva C., Munhall, Pa. Resistance panel or grid	618,954	Feb. 7	289	63	86	867
Dinkins, Hamilton S. (See Howe, Henry W., assignor.)						
Dinsmore, Darcey J. (See Harlan, Wilbur, assignor.)						
Dinsmore, Sewall A. (See Gardner, Henry, assignor.)						
Dion, Albert de, and G. Bouton, Puteaux, France. Motor-vehicle	617,984	Jan. 17	2134	477, 478	86	456
Dion, Joseph A., Point St. Charles, Canada. Cooking utensil	620,750	Mar. 7	407	84	86	1581
Dionne, Joseph F., and J. A. Guy, Edmundston, Canada. Rail and tie plate	617,234	Jan. 3	711	165	86	139
Dirksmeyer, Frank. (See Hallett, William R., assignor.)						
Disbrow, Hiram G., New York, N. Y. Reversible tie	622,331	Apr. 4	234	53	87	44
Dishner, James R., and A. M. Lindsey, Ida, Tex. Steam-engine	622,762	Apr. 11	1044	242	87	218
Dismukes, William L., assignor of one-third to R. J. Lyles, Nashville, Tenn. Coupling for iron bedsteads	632,254	Sept. 5	84	18	88	1723
Disroon, Frank. (See Hooks, William A., assignor.)						
Diss, Albert B., New York, N. Y. Furniture-caster	629,188	July 18	2308	535	88	486
Diss, Albert B., New York, N. Y. Portable air-pump	635,674	Oct. 24	3170	730	89	673
Disselkamp, Rudolf. (See Demmer, Ewald, assignor.)						
Dissosway, Crowell M., assignor of one-half to J. Goodchild, New York, N. Y. Inset railway-rail	619,013	Feb. 7	417	87	86	891
Dissosway, Crowell M., assignor of one-half to J. Goodchild, guardian, New York, N. Y. Hair-pin	622,039	Mar. 28	2799	631	86	2084
Dissosway, Crowell M., assignor of one-half to J. Goodchild, guardian, New York, N. Y. Paper-roll for manifolding sales-pads	632,487	Sept. 5	505	115	88	1807
Dissosway, Crowell M., assignor of one-half to J. Goodchild, guardian, New York, N. Y. Motor-vehicle	633,283	Sept. 19	2045	480	88	2136
Dissosway, Crowell M., assignor of one-half to J. Goodchild, guardian, New York, N. Y. Wheel with traction-rim	635,128	Oct. 17	2139	500	89	458
Disston, Henry, assignor to Henry Disston & Sons, Incorporated, Philadelphia, Pa. Cane-knife	628,775	July 11	1564	361	88	325
Ditman, Andrew J. (See Cooper, John J., assignor.)						
Ditson, Jesse, Denver, Colo. Drawing-scale	637,857	Nov. 28	3476	726	89	1712
Ditsworth, Oliver, Lanark, Ill. Stock-waterer	635,754	Oct. 31	3331	770	89	718
Dittbenner, Hermann G., assignor to Minneapolis Iron Store Company, Minneapolis, Minn. Plow-hammer	639,538	Dec. 19	2484	573	89	2388
Dittman, Samuel E., assignor to T. Regensteiner, Chicago, Ill. Adjustable clamp for printing-blocks	633,506	Sept. 19	2448	577	88	2214
Dittmar, Allen A., assignor to H. T. Johnson, Jersey City, N. J. Galvanometer	619,679	Feb. 14	1603	366	86	1141
Dittmar, Gustav, Washington, D. C. Armor-piercing shell	623,707	Apr. 25	2768	633	87	587
Divelbiss, Fred, Starfield, Mo. Wheel guard or shoe	635,921	Oct. 31	3663	845	89	781
Diven Brothers & Co. (See Worthington and Petersen, assignors.)						
Divet, Arthur G., Wahpeton, N. D. Reversible valve-gear	618,068	Jan. 24	2318	517	86	505
Divine, Silas R., Loch Sheldrake, N. Y. Method of and device for preserving fruit from damage in shipment	617,235	Jan. 3	712	165	86	139
Dixon, Albert S., Escondido, assignor to Asphalt Paper Pipe Company, Los Angeles, Cal. Conduit-pipe	634,230	Oct. 3	481	121	89	98
Dixon, Alvy, Rockdale, Wyo. Railway-tie	634,882	Oct. 17	1672	394	89	365
Dixon, Charles A., Newburg, assignor to A. R. Whitney & Company, New York, N. Y. Nail-machine	631,203	Aug. 15	2737	619, 620	88	1295

Alphabetical list of patentees—Continued.

Name, residence, and invention.	No.	Date.	Monthly volume. Spec.	Monthly volume. Dr'g.	Official Gazette. Vol.	Official Gazette. Page.
Dixon, Frank A., San José, Cal. Washing and canning table	621,045	Mar. 14	973	212	86	1702
Dixon, Henry, Collingwood, Canada. Bicycle-frame	640,113	Dec. 26	3551	816 817	89	2622
Dixon, Henry J. (See Creasy, John, assignor.)						
Dixon, James, Painesville, Ohio. Track clearing and drying device	632,782	Sept. 12	1094	253	88	1939
Dixon, James R. (See Brown and Dixon.)						
Dixon, James R. (See McCloskey, William, assignor.)						
Dixon, John A., Lykesland, S. C. Stalk-cutter	621,229	Mar. 14	1293	286	86	1765
Dixon, Joseph W., Connellsville, Pa. Non-refillable bottle	625,545	May 23	2888	657	87	1323
Dixon, Lester A., assignor to A. Chrystal, Marshall, Mich. Electric belt	634,231	Oct. 3	482	121	89	98
Dixon, Robert D., Sydney, New South Wales. Animal-shears	622,332	Apr. 4	235	53	87	45
Dixon, Robert M., East Orange, N. J. Combined visible and audible signal	637,925	Nov. 28	3609	756 757	89	1740
Dixon, Robert M., East Orange, N. J. System for propelling railway-cars	638,801	Dec. 12	1156	258	89	2112
Dixon, Robert M., East Orange, N. J., assignor to Safety Car Heating and Lighting Company, New York, N. Y. Car-heater	618,849	Feb. 7	52	11	86	814
Dixon, Robert W., Springfield, Ohio. Casket-truck	627,954	June 27	3232	708	87	2305
Dixon, Robert W., Springfield, Ohio. Casket-truck	635,755	Oct. 31	3334	770	89	718
Dixon, Thomas W., Chicago, Ill. Bicycle	632,807	Sept. 12	1143	263	88	1949
Doan & Gates Company. (See Ellis, Charles S., assignor.)						
Doan, John M. (See Bundy, Doan, and Heslet.)						
Doan, W. A. (See Clark, William, assignor.)						
Doane, Charles W., Westlake, La. Jack	633,084	Sept. 12	1621	377	88	2042
Doane, Elias H., Tonica, Ill. Cap for sliding doors	622,129	Mar. 28	2961	669	86	2117
Doane, Francis. (See Severy, Melvin L., assignor.)						
Dobbel, Frederick W., San Francisco, Cal. Type-writer attachment	634,446	Oct. 10	902	217	89	198
Dobbin, Robert O., assignor to himself and Waterloo Manufacturing Company, Waterloo, Canada. Rotary engine	619,730	Feb. 21	1728	394	86	1190
Dobbins, Edward, Saranac Lake, N. Y. Mop-handle	627,746	June 27	2862	626	87	2229
Dobbins, Edward J. (See Moffat and Dobbins.)						
Dobbins, Edwin A., New York, N. Y. Photographic washing-tank	633,818	Sept. 26	3026	703	88	2343
Dobbs, Henry D., New York, N. Y. Epaulet-frame	636,501	Nov. 7	467	104	89	1015
Doble, Lucius A., Huron, S. D. Draining attachment for vessels	634,808	Oct. 10	1528	360	89	320
Doble, William A., San Francisco, Cal. Rock-drilling machine	619,147	Feb. 7	668	144	86	942
Doble, William A., San Francisco, Cal. Water-wheel	619,148	Feb. 7	672	144	86	943
Doble, William A., San Francisco, Cal. Water-wheel	619,149	Feb. 7	674	145	86	943
Doble, William A., San Francisco, Cal. Tangential water-wheel	633,184	Sept. 19	1851	436	88	2098
Doble, William H. (See Pennock, Frederick G., assignor.)						
Doble, William H., Quincy, and W. S. Scales, Everett, Mass. Machine for folding and setting up cartons	633,953	Sept. 26	3255	760 761	88	2388
Dobson, Charles M., and T. S. Alexander, assignors of one-third to E. Schernikow, New York, N. Y. Ore-feeder for stamp-batteries	622,763	Apr. 11	1045	242	87	218
Dobson, Matthew G., *et al.* (See Cocker, John, assignor.)						
Dobson, Russell T. (See Butler, James L., assignor.)						
Dobson, William J. M., New York, N. Y. Drying apparatus	617,148	Jan. 3	561	132	86	109
Dobson, William J. M., New York, N. Y. Drying apparatus	633,819	Sept. 26	3027	703	88	2343
Dobson, William J. M., New York, N. Y. Portable pneumatic stirrer	638,046	Nov. 28	3843	808	89	1785
Dock, Herman, Philadelphia, Pa. Tool for cutting screw-threads	632,678	Sept. 5	878	205	88	1883
Dock, Herman, Philadelphia, Pa. Grinder attachment for lathes	634,232	Oct. 3	483	122	89	98
Dockery, Allen B., assignor of one-half to D. R. Wingate, Uvalde, Tex. Spring-latch	636,502	Nov. 7	468	104	89	1015
Dockum, William, Ostrander, Ohio. Piston or plunger	639,363	Dec. 19	2185	506	89	2330
Dodd, David. (See Frisbie, Henry R., assignor.)						
Dodd, John, Oldham, England. Means for securing card-clothing to cylinders of carding-engines	633,358	Sept. 19	2200	516	88	2166
Dodd, John W., Martinsburg, W. Va. Cattle-guard	626,598	June 6	680	157	87	1747
Dodd, Samuel H., Jeannette, assignor to S. B. Bishop, Pittsburg, Pa. Combined telephone-desk and directory-support	633,432	Sept. 19	2334	551	88	2192
Dodd, Wesley W. (See Hazeltine and Dodd.)						
Dodd, West, Des Moines, Iowa. Machine for making lightning-rods	630,334	Aug. 8	1135	248 249	88	961
Dodd, West, and A. D. Struthers, Des Moines, Iowa. Apparatus for illustrating the phenomena of thunder and lightning	622,210	Apr. 4	23	5	87	7
Dodd, William R., London, England. Preparing food for infants	620,645	Mar. 7	193	------	86	1539
Dodd, Willis G., San Francisco, Cal. Operating mechanism	635,372	Oct. 24	2574	598	89	557
Dodd, Willis G., San Francisco, Cal. Cencentrating-table	638,324	Dec. 5	256	53	89	1915
Doddridge, William B., St. Louis, Mo., assignor to American Pneumatic Railway Ditcher and Grader Company, Granite City, Ill. Ditching or excavating machine	633,977	Sept. 26	3314	771 772	88	2399
Doddridge, William B., St. Louis, Mo., assignor to American Pneumatic Railway Ditcher and Grader Company, Granite City, Ill. Leveler for ditching or excavating machines	634,166	Oct. 3	340	86	89	70
Dodds, Edward J., and T. A. Jackson, Putnam, Tex. Seeder	629,342	July 25	2584	599	88	556
Dodge, Edmund R., *et al.* (See Nicolas, Alexander C., assignor.)						
Dodge, Edward E., Providence, R. I. Illuminated street-car sign	631,700	Aug. 22	3650	823	88	1495
Dodge, Edwin H. (See Fairfield and Dodge.)						
Dodge, George P., Great Neck, N. Y. Rubber roll	620,286	Feb. 28	2724	624	86	1395
Dodge, James M., Philadelphia, Pa. Slide-block for conveyers	628,776	July 11	1565	361	88	326
Dodge, James M., Philadelphia, Pa. Carrier	629,289	July 18	2469	575 576 577	88	515
Dodge, James M., Philadelphia, Pa. Stair-lift	639,154	Dec. 12	1757	406	89	2229
Dodge, James M., assignor to Link Belt Engineering Company, Philadelphia, Pa. Bucket conveyer	637,716	Nov. 21	3220	670	89	1641
Dodge, Philip T., Washington, D. C. Linotype-machine	618,044	Jan. 17	2251	502 503 504	86	475
Dodge, Philip T., Washington, D. C., assignor to Mergenthaler Linotype Company, of New York. Linotype-machine	619,875	Feb. 21	2007	456	86	1244
Dodge, Theophilus C. (See Wybro and Danley, assignor.)						
Dodge, Willard A., Petrolia, N. Y. Register	638,447	Dec. 5	499	101	89	1962
Dodge, William W., Burlington, Iowa. Combination attachment for pencils, penholders, &c.	617,149	Jan. 3	562	132	86	110
Dodgson, Frank L., Rochester, N. Y., assignor, by mesne assignments, to Pneumatic Railway Signal Company, of West Virginia. Time-valve for pneumatic railway-signals	636,770	Nov. 14	1043	223	89	1159
Dodson, George W., Lawrence, Mass. Railway mileage-ticket	637,240	Nov. 21	1972	422	89	1354
Dodson, Roy, Dallas, Tex. Hame and trace connector	632,551	Sept. 5	641	149	88	1833
Doeppe, Charles L. A. (See Millhiser and Doeppe.)						
Doerfer, Jacob C., Denver, Colo. Metronome	618,336	Jan. 24	2814	624 625	86	597

Alphabetical list of patentees—Continued.

Name, residence, and invention.	No.	Date.	Monthly volume. Spec.	Monthly volume. Dr'g.	Official Gazette. Vol.	Official Gazette. Page.
Doerflinger Artificial Limb Company. (See Burg, Joseph, assignor.)						
Doerflinger Artificial Limb Company. (See Doerflinger, Burg, and Davis, assignors.)						
Doerflinger, Charles H., J. Burg, and J. Davis, assignors to Doerflinger Artificial Limb Company, Milwaukee, Wis. Artificial ankle-joint	619,731	Feb. 21	1730	394	86	1190
Doerflinger, John W., Sandusky, Ohio. Basket	635,675	Oct. 24	3173	730	89	673
Doering, Justus, Philadelphia, Pa., assignor to Union Bag and Paper Company, Chicago, Ill. Paper-bag machine	626,369	June 6	301	68, 69	87	1672
Doering, William H., Philadelphia, Pa. Magazine-camera	621,447	Mar. 21	1675	371, 372, 373	86	1850
Doerr, Lawrence, and J. Munroe, Jr., South Arm, Mich. Steam-boiler	631,006	Aug. 15	2383	543	88	1225
Doherty, George, Boston, Mass. Apparatus for supplying paste to labels	635,922	Oct. 31	3664	846	89	782
Doherty, Henry L., Madison, Wis., and I. Butterworth, Columbus, Ohio. Gas-purifier	629,958	Aug. 1	434	93	88	808
Doherty, John P., East St. Louis, Ill. Seal-lock	621,637	Mar. 21	2021	451	86	1918
Doherty, Robert L., Palmyra, Mo. Acetylene-generator	630,195	Aug. 1	864	186	88	893
Dohlgreen, Peter P. (See Couls and Dohlgreen.)						
Dokenwadel, Fredrick. (See Wiegand and Dokenwadel.)						
Dolan, Edward J., Philadelphia, Pa. Acetylene-generating lamp	621,230	Mar. 14	1295	287	86	1766
Dolan, Edward J., Philadelphia, Pa. Acetylene-gas lamp	621,331	Mar. 21	1482	329	86	1814
Dolan, Edward J., Philadelphia, Pa. Acetylene-lamp	623,998	May 2	81	18	87	718
Dolan, Edward J., Philadelphia, Pa. Acetylene-gas burner	630,493	Aug. 8	1475	330	88	1024
Dolan, Edward J., Philadelphia, Pa. Generating acetylene gas	638,175	Nov. 28	4097	864	89	1833
Dolan, Edward J., Philadelphia, Pa. Generating acetylene gas	638,448	Dec. 5	502	101	89	1963
Dolan, Edward J., Philadelphia, Pa. Acetylene-gas-generating lamp	638,449	Dec. 5	503	102	89	1963
Dolan, Lawrence H., assignor of one-half to L. Kauffeld, Pendleton, Ind. Glass-blowing machine	631,624	Aug. 22	3520	792, 793, 794	88	1468
Dolby, Frank C., Broadheath, England, assignor to Mergenthaler Linotype Company, New York, N. Y. Mechanism for releasing space-bars of linotype-machines	635,997	Oct. 31	3810	876	89	811
Dollar, Joseph A., Camilla, Ga. Pump	625,023	May 16	1957	438	87	1120
Dollard, James J., *et al.* (See Prevost, Dwight F., assignor.)						
Dolley, C. O., *et al.* (See Brown, Edmond H., assignor.)						
Dolley, Charles S., Philadelphia, Pa. Tanning	630,494	Aug. 8	1476	------	88	1024
Dolley, Charles S., and A. F. Crank, Philadelphia, Pa. Tawing hides or skins	629,124	July 18	2198	------	88	466
Dolley, Charles S., M. O. Rehfuss, and J. Hunt, assignors to Universal Food and Liquid Improving Company, Philadelphia, Pa. Treating liquids	627,398	June 20	2216	488, 489	87	2084
Dolson, John L., Charlotte, Mich. Self-lubricating axle	621,905	Mar. 28	2552	576	86	2036
Dolson, John L., Charlotte, Mich. Self-lubricating axle	621,906	Mar. 28	2554	576	86	2036
Dolter, Henri, Lyons, France. Secondary battery	618,247	Jan. 24	2660	588, 589	86	568
Dom, Alexander, Hartwell, assignor to Globe Company, Cincinnati, Ohio. Binding-file	635,431	Oct. 24	2741	627	89	589
Doman, Lewis B., Elbridge, N. Y. Explosive-engine	625,839	May 30	3434	780	87	1448
Domayer, Frank J., Dyersville, Iowa. Vegetable-cutter	639,847	Dec. 26	3074	706	89	2524
Domenget, Henri A., Argenteuil, France. Machine for sewing beads to fabrics	629,005	July 18	1977	461	88	422
Domenget, Henri A., Argenteuil, France. Machine for sewing beads to fabrics	630,196	Aug. 1	865	186	88	893
Domestic Fire Extinguisher Company. (See Schroeder, George G., assignor.)						
Dommersnas, John P. (See Jones, Arthur, assignor.)						
Donaghy, Harry J., Callery Junction, Pa. Railway-tie	625,153	May 16	2190	498	87	1163
Donahey, Frank P., Washington, D. C. Ventilating apparatus	618,562	Jan. 31	3253	723	86	695
Donahoe, Garrett E., *et al.* (See Campbell, George L., assignor.)						
Donahoe, Hedley J., Chicago, Ill. Fence-post	623,205	Apr. 18	1873	429	87	393
Donahoo, Peter B. (See Rix and Donahoo.)						
Donahue, Charles J., *et al.* (See Weaver and Houghton, assignors.)						
Donahue, Thomas, Lake City, Mich., assignor to J. H. Lyle, Pittsburg, Pa. Railway-rail joint	629,314	July 18	2529	588	88	527
Donaldson, Charles B., Wilmington, Ohio. Flour-packing machine	618,850	Feb. 7	55	12	86	815
Donaldson, Fred H., Garvanza, Cal., assignor of two-thirds to C. C. McLean, Philadelphia, Pa., and H. E. Newton, Los Angeles, Cal. Magneto-electric motor-dynamo	622,452	Apr. 4	451	105	87	84
Donaldson, John E., Montezuma, Ind. Tile	638,802	Dec. 12	1158	258, 259	89	2112
Donaldson, Martin B., Duluth, Minn. Artificial limb	621,638	Mar. 21	2023	451	86	1918
Donaldson, Robert S., Pittsburg, Pa. Distributing-terminal	623,771	Apr. 25	2904	664, 665	87	614
Donat, Gustavo, London, England. Valve	625,437	May 23	2705	616	87	1286
Donat, Isaac W., Adrian, Mich. Car-door lock and hanger	621,554	Mar. 21	1888	419	86	1891
Donegan, John, Cincinnati, Ohio. Sea-going range-finder	632,105	Aug. 29	4404	989	88	1650
Donegan, Joseph R. (See Burke and Donegan.)						
Donehower, William E., J. J. Downs, and J. A. Dwyer, North Platte, Nebr. Refrigerating-car	634,447	Oct. 10	904	217	89	198
Doney, Alfred. (See Lane and Doney.)						
Donges, George, and H. Petesch, Baltimore, Md. Hydraulic engine	627,399	June 20	2218	489	87	2084
Donigan, William J., assiguor of two-thirds to J. K. Stewart and G. A. Clark, Amsterdam, N. Y. Carding apparatus	617,481	Jan. 10	1186	270	86	250
Donisthorpe, Ernest N. B., *et al.* (See King, Charles B., Jr., assignor.)						
Donlon, Thomas H., assignor of two-thirds to A. Byrd, Kansas City, Kan. Animal-trap	620,753	Mar. 7	410	84	86	1581
Donnelly, Arthur, Toledo, Ohio, assignor to National Biscuit Company, Jersey City, N. J., and Chicago, Ill. Knockdown crate	628,304	July 4	669	156, 157	88	129
Donnelly, Daniel B., Pittsburg, Pa. Blow-off cock	620,287	Feb. 28	2725	625	86	1395
Donnelly, George B., Chicago, Ill. Railway-frog	631,420	Aug. 22	3143	713	88	1393
Donnelly, Samuel A., Chicago, Ill. Air-compressor	636,643	Nov. 7	743	162, 163	89	1072
Donner, Hermann. Chemnitz, Germany. Knitting-machine	629,892	Aug. 1	266	59, 60	88	772
Donner, William H., Monessen, Pa. Rolling black plate	620,541	Feb. 28	3167	726	86	1480
Donning, George W., New York, N. Y. Car-fender	620,573	Mar. 7	35	7	86	1509
Donovan, Fergus, *et al.* (See Latimer, James F., assignor.)						
Donovan, Horace H., Abington, Mass. Lasting-jack	636,644	Nov. 7	749	163	89	1073
Donovan, James, Three Rivers, Mich. Corn-sheller	636,026	Oct. 31	3860	887	89	821
Donovan, James, Three Rivers, Mich. Wheel	636,958	Nov. 14	1400	298	89	1229
Donovan, James, assignor to Roberts, Throp & Company, Three Rivers, Mich. Corn-sheller	636,025	Oct. 31	3859	886	89	821
Donovan, John F., Phillips, Wis. Stack-roof	633,689	Sept. 26	2821	655	88	2300
Donovan, John P., Westfield, Mass. Machine for twisting and stretching rawhide whip-centers	633,433	Sept. 19	2335	551	88	2192
Doolan, Albert, Chicago, Ill. Sliding-door hanger	628,910	July 11	1811	422	88	372
Dooley, Harry L., Moline, Ill. Corn-planter	630,452	Aug. 8	1402	314	88	1010

Alphabetical list of patentees—Continued.

Name, residence, and invention.	No.	Date.	Monthly volume. Spec.	Monthly volume. Dr'g.	Official Gazette. Vol.	Official Gazette. Page.
Doolittle, Charles B., and E. H. Everit, New Haven, Conn. Sanitary guard for telephone transmitters and receivers	627,820	June 27	2991	654	87	2254
Doolittle, Elbridge C., assignor of one-half to A. R. Justice, Philadelphia, Pa. Bicycle	621,995	Mar. 28	2728	616	86	2070
Doolittle, Elizabeth, Bridgeport, Conn. Embroidery-hoop	629,847	Aug. 1	170	40	88	754
Doolittle, Freeman A., McIntire, Iowa. Collar-pad	638,008	Nov. 28	3778	794	89	1772
Doolittle, Frederic C., Waterville, N. Y. Internal remedy	632,552	Sept. 5	642	------	88	1834
Doolittle, George E. (See Book, Helena A., assignor.)						
Doolittle, Harvey K., Watertown, N. Y. Window	626,057	May 30	3888	883	87	1532
Doolittle, Irvin P., Toronto, Canada. Hook and eye	635,529	Oct. 24	2908	664	89	623
Doolittle, James B., Wallingford, Conn., assignor of one-half to A. R. Justice, Philadelphia, Pa. Gasolene-engine	637,450	Nov. 21	2360	510, 511	89	1432
Doolittle, James E., assignor of one-half to G. E. Hawes, Bridgeport, Conn. Naval game-board	625,248	May 16	2357	536	87	1195
Doolittle, John F., Cleveland, Ohio. Steam-hammer	628,599	July 11	1212	284	88	254
Doolittle, Perry E., Toronto, Canada. Back-pedaling brake	624,762	May 9	1482	336, 337	87	1012
Doolittle, William W., Chicago, Ill. Foundry plant	623,355	Apr. 18	2147	494	87	448
Dooly, Martin H., North Adams, Mass. Fire-escape	639,364	Dec. 19	2186	506	89	2330
Dopkins, George, Morris, Minn. Draft-equalizer	617,644	Jan. 10	1487	339	86	309
Doran, Belle H., administratrix. (See Doran, Frank C.)						
Doran, Frank C., deceased; B. H. Doran, Chicago, Ill., administratrix. Switch and signal lock	638,915	Dec. 12	1351	309	89	2150
Doran, Robert L., Nashville, Tenn. Incandescent vapor-lamp	626,752	June 13	973	220	87	1821
Doran, Robert L., Nashville, Tenn. Hydrocarbon lighting apparatus	628,079	July 4	220	51	88	45
Dorau, John P., Lark, Wis. Rotary engine	624,462	May 9	943	211, 212	87	906
Dore, Herman R., Moultonville, N. H. Railway-signal	633,717	Sept. 26	2868	666, 667	88	2310
Doremus Brake and Coaster Company. (See Doremus, Victor E., assignor.)						
Doremus, Christopher S., assignor of one-half to G. R. French, Pequannock, N. J. Fire-proof sectional chimney or stack	619,251	Feb. 7	857	188	86	980
Doremus, Victor E., assignor of one-half to P. T. Wall, New York, N. Y. Back-pedaling brake	616,907	Jan. 3	80	16	86	17
Doremus, Victor E., assignor, by mesne assignments, to Doremus Brake and Coaster Company, New York, N. Y. Back-pedaling brake	626,679	June 13	843	192	87	1797
Dorenfeldt, Lauritz J. (See Drewsen and Dorenfeldt.)						
Dorenfeldt, Lauritz J., Rheinduerkheim, Germany. Utilizing sulfite lyes	620,751	Mar. 7	408	------	86	1581
Dorenfeldt, Lauritz J., Rheinduerkheim, Germany. Apparatus for recovering chemicals from sulfite liquors	620,752	Mar. 7	409	84	86	1581
Dorgan, Michael H., San Francisco, Cal. Water-heating apparatus	619,876	Feb. 21	2008	456	86	1245
Dorion, John H., Springfield, Mass. Electric temperature-indicator	622,917	Apr. 11	1323	305	87	270
Doriot, Julian, Bluffton, Ohio. Flour or grain scale	618,983	Feb. 7	369	76,77	86	881
Dorman, Dennie M., Binghamton, N. Y. Acetylene-gas generator	634,401	Oct. 3	816	197	89	163
Dorman, Dennie M., Binghamton, N. Y. Shell for carbid-cartridges	634,402	Oct. 3	817	198	89	163
Dorman, Jacob A., assignor of one-half to J. T. Moore, Woolley, Wash. Split pulley	630,868	Aug. 15	2131	483	88	1176
Dorman, James, Lawrence, Mass. Device for removing ledgers, boards, or the like	625,654	May 23	3072	700	87	1360
Dorman, William H., Stafford, England. Lasting-machine	629,553	July 25	2979	696, 697	88	636
Dorn, Christian, assignor of one-half to W. G. T. Marcellus, Philadelphia, Pa. Dash-pot valve	619,680	Feb. 14	1605	367	86	1141
Dornan, Thomas B., Philadelphia, Pa. Carpet fabric	638,410	Dec. 5	429	89	89	1947
Dornan, Thomas B., and R. Cuscaden, Philadelphia, Pa. Ingrain carpet fabric	621,522	Mar. 21	1823	405	86	1879
Dornette, Henry F. W. and J. H. F., Cincinnati, Ohio. Desk for type-writing machines	622,211	Apr. 4	26	6	87	8
Dornette, John H. F. (See Dornette, Henry F. W. and J. H. F.)						
Dornfeld, John F., Milwaukee, Wis. Malt turning and stirring mechanism	636,959	Nov. 14	1402	299, 300	89	1230
Dornseif, Jacob W. (See Moser and Dornseif.)						
Dorpols, Cornelius P., Berwyn, Ill. Ornamenting glass	632,008	Aug. 29	4218	949	88	1613
Dörr, Carl T., and M. Stühler, Cologne, Germany; said Dörr assignor to said Stühler. Means for automatically operating bulkhead-doors	617,855	Jan. 17	1903	425, 426, 427	86	410
Dorrestein, Cornelus A., New Orleans, La. Water-switch sluice	617,927	Jan. 17	2047	458, 459	86	439
Dorsett, Hardin W., Spearville, Kans. Fence-stay	626,599	June 6	683	157	87	1747
Dorsett, Timothy W. (See Bagley, Charles H., assignor.)						
Dorsey, Elmer F., Kansas City, Kans. Can-soldering machine	619,681	Feb. 14	1606	367, 368	86	1141
Dorsey, James F. (See Jacobson, John, assignor.)						
Dorticus, Clatonia J., Newton, N. J. Hose-leak stop	629,315	July 18	2529	588	88	527
Dorton, Frederick T. (See Burckard, August, assignor.)						
Dorwin, Gustave S. (See Bowers, William, assignor.)						
Doscher, William C. (See Schnepf, John, assignor.)						
Dosne, Paul, Aglie, Italy. Mercerizing	629,780	Aug. 1	38	------	88	728
Doss, Albert and W. F., Denver, Colo. Portable electric lamp	627,955	June 27	3233	709	87	2305
Doss, William F. (See Doss, Albert and W. F.)						
Dotts, Hiram S., Thoburn, assignor of one-fifth to J. D. Schutte, Farmington, and J. F. Regulski, Monongah, W. Va. Mechanic's trestle	617,463	Jan. 10	1155	263, 264	86	243
Doty, Charles H., assignor to Elkhart Iron Works Company, Elkhart, Ind. Wire fence	627,909	June 27	3154	690	87	2289
Doty, Ellsworth P., Cato, N. Y. Cream-separator	624,194	May 2	456	96	87	787
Doty, James H. (See Upton, Willard, assignor.)						
Doty, Ricie J., Greeneville, Tenn. Lap-board	623,143	Apr. 18	1759	405	87	371
Doub, John H., Walnut, Kans. Washing-machine	631,458	Aug. 22	3211	729, 730	88	1406
Doublet, Diederich A. M., Altona-Ottensen, Germany. Filter	631,929	Aug. 29	4068	913	88	1584
Dougherty, Owen T., Minneapolis, Minn. Fishing-tackle	617,236	Jan. 3	713	166	86	140
Dougherty, Richard H., Baltimore, Md. Housing for ratchet-wheels	636,645	Nov. 7	750	164	89	1073
Doughty, Charles H., assignor of one-half to W. D. Overbey, Danville, Va. Suspenders	633,434	Sept. 19	2338	552	88	2193
Doughty, George E., New York, N. Y. Manifold sales-book	637,094	Nov. 14	1660	360	89	1280
Doughty, Henry J., Providence, R. I. Vulcanizing apparatus	617,414	Jan. 10	1074	245	86	228
Doughty, Henry J., Providence, R. I. Molding and vulcanizing apparatus	620,233	Feb. 28	2628	598	86	1375
Douglas, Alexander S., Jr., Glasgow, Scotland. Astragal for use in glazing	639,964	Dec. 26	3287	752	89	2567
Douglas, Andrew W., Loda, Ill. Wagon end-gate	633,756	Sept. 26	2931	681	88	2322
Douglas, E. V. (See Horry, William S., assignor.)						
Douglas, Ella D., Manchester, N. H. Book-cover	624,195	May 2	457	96	87	787
Douglas, Henry P., and A. Sundh, New York, N. Y. Protective casing for electric cables or wires	630,599	Aug. 8	1674	376	88	1063

Alphabetical list of patentees—Continued.

Name, residence, and invention.	No.	Date.	Monthly volume. Spec.	Monthly volume. Dr'g.	Official Gazette. Vol.	Official Gazette. Page.
Douglas, John, Norwood, Ohio. Ball-valve	619,732	Feb. 21	1731	395	86	1191
Douglas, John, Elizabeth, N. J., assignor to Singer Manufacturing Company, of New Jersey. Sewing-machine corder	619,877	Feb. 21	2010	456	86	1245
Douglas, John, Elizabeth, N. J., assignor to Singer Manufacturing Company, of New Jersey. Sewing-machine plaiter	635,676	Oct. 24	3174	731	89	673
Douglas, Sholto. (See Teisler, Emil, assignor.)						
Douglas, William, Fletcher, Ohio. Rein and draw-rope attachment for planters	626,225	June 6	17	4	87	1618
Douglas, William H., assignor of eleven-twentieths to W. H. Beck, Washington, D. C. Chemical fire-extinguisher	626,988	June 13	1445	318	87	1913
Douglass, Arthur D., London, England. Electrical apparatus for exhibiting and changing advertisements, signs, or the like	634,403	Oct. 3	818	198	89	163
Douglass, Ellen T. (See Douglass, James, assignor.)						
Douglass, Elmer E., assignor of one-half to J. Swinbank, Pittsburg, Pa. Wire-annealing furnace	632,836	Sept. 12	1196	273	88	1960
Douglass, J. Walter. (See Heany, John A., assignor.)						
Douglass, James, assignor to E. T. Douglass, New York, N. Y. Liquid-cooler	621,231	Mar. 14	1297	287	86	1766
Douglass, Leon F., assignor to C. Dickinson, Chicago, Ill. Talking-machine	630,869	Aug. 15	2132	483	88	1176
Douglis, Charles, New York, N. Y. Pocket	627,400	June 20	2220	490	87	2084
Doust, Joseph. (See Jenkins, William, assignor.)						
Doutney, Charles P., Burlington, Vt. Fire-extinguishing compound	625,293	May 16	2443	------	87	1210
Dover, George W., Cranston, R. I. Button	636,960	Nov. 14	1405	300	89	1231
Dover, George W., and F. L. King, Providence, R. I. Cluster-setting	630,197	Aug. 1	866	187	88	893
Dow, Alexander, New York, N. Y., assignor to Dow Composing Machine Company, of West Virginia. Type-setting machine	637,858	Nov. 28	3478	727, 728, 729, 730	89	1713
Dow, Allen H., Forest House, Pa. Scissors or shears	638,662	Dec. 5	885	194	89	2038
Dow, Charles A., Sioux City, Iowa. Device for sharpening scissors or other tools	620,021	Feb. 21	2250	511	86	1290
Dow Composing Machine Company. (See Dow, Alexander, assignor.)						
Dow, Herbert H., Midland, Mich. Electrolytic cell	621,907	Mar. 28	2556	576, 577	86	2037
Dow, Herbert H., Midland, Mich. Porous diaphragm for electrolytic cells and producing same	621,908	Mar. 28	2559	577	86	2038
Dowagiac Manufacturing Company. (See Bills, Wilmont, assignor.)						
Dowagiac Manufacturing Company. (See Hoyt, Will F., assignor.)						
Dowell, Arthur E., Washington, D. C., assignor of one-half to J. Hewitt, Chicago, Ill. Linotype and making same	620,288	Feb. 28	2726	625	86	1396
Dowell, Arthur E., Washington, D. C., assignor of one-half to J. Hewitt, Chicago, Ill. Means for forming type-line bars	620,289	Feb. 28	2728	625	86	1396
Dowie, Eben, and J. M. Oxley, Montreal, Canada. Composition for expelling rats, &c.	631,738	Aug. 22	1332	------	88	1508
Dowling, Frank, assignor of one-half to C. R. Applegate, Coleridge, Nebr. Foot-operated hammer	640,114	Dec. 26	3553	817	89	2622
Downard, John H. (See Robinson and Downard.)						
Downer, Matthew M., Jonesville, Tex. Portable shade for cotton-pickers	620,109	Feb. 28	2413	545, 546	86	1335
Downes, George G., Worcester, Mass. Storm-window fastener	626,989	June 13	1447	318	87	1913
Downes, Louis W., assignor to D. & W. Fuse Company, Providence, R. I. Casing for and mounting of electrical fuses or cut-outs	633,576	Sept. 26	2599	609	88	2259
Downes, Louis W., assignor to D. & W. Fuse Company, Providence, R. I. Casing for and mounting of electrical fuses or cut-outs	633,577	Sept. 26	2600	609	88	2259
Downes, Louis W., Providence, and W. T. Sherman, Eden Park, assignors to D. & W. Fuse Company, Providence, R. I. Electric switch	635,373	Oct. 24	2575	598, 599	89	557
Downes, William A., assignor to Penberthy Injector Company, Detroit, Mich. Dope-cup	626,489	June 6	499	115	87	1710
Downes, William A., assignor to Penberthy Injector Company, Detroit, Mich. Gage-glass	629,848	Aug. 1	171	40	88	754
Downey, Richard F., assignor of two-thirds to M. A. Burns and F. Gregory, Menominee, Mich. Monkey-wrench	633,578	Sept. 26	2602	609	88	2259
Downey, William J., Newark, N. J. Safety appliance for lamps	632,518	Sept. 5	565	130	88	1819
Downie, Robert M., assignor to Keystone Driller Company, Beaver Falls, Pa. Dredger for use in wells	639,155	Dec. 12	1759	406, 407	89	2229
Downing, Clarence O., Norwalk, Ohio. Implement for applying stay-wires to wire fences	633,340	Sept. 19	2168	508	88	2160
Downing, Daniel A., Tipton, Iowa. Garden-tool	638,382	Dec. 5	377	79	89	1938
Downing, Landon L., Salt Lake City, Utah. Key-guard	628,438	July 4	909	212	88	175
Downing, Thomas, Minneapolis, Minn. Wheel rim and tire	624,763	May 9	1484	337	87	1012
Downing, William E., Des Plaines, Ill. Metallic train-pipe connection	628,305	July 4	670	157	88	129
Downs, Benjamin F., Wilmington, Del. Combined writing and drawing instrument	617,897	Jan. 17	1998	446	86	428
Downs, Benjamin J., Ashburnham, assignor of one-third to H. W. S. Downs, Fitchburg, Mass. Pop safety-valve	630,826	Aug. 8	2059	464	88	1139
Downs, C. B., *et al.* (See Moore, James A., assignor.)						
Downs, Henry W. S. (See Downs, Benjamin J., assignor.)						
Downs, John J. (See Donehower, Downs, and Dwyer.)						
Downs, Wallace A., New York, N. Y., assignor to International Machine Company, Jersey City, N. J. Match-machine	622,998	Apr. 11	1461	337, 338	87	298
Downton, Henry G. (See Mitchell, Downton, and Nicholls.)						
Dows, S. L., Jr., *et al.* (See Henderson and Hibbard, assignors.)						
Doyle, Arthur, Seattle, Wash. Driving-gear for bicycles	630,198	Aug. 1	867	187	88	894
Doyle, Brisbane, London, England. Pneumatic tire	620,754	Mar. 7	412	84	86	1581
Doyle, Charlie E., Wardhill, Mass. Photographic-film support	638,916	Dec. 12	1352	309	89	2150
Doyle, George H., Jr., Boston, Mass. Rudder-locking mechanism	626,370	June 6	303	69	87	1672
Doyle, John B., Stampley, Miss. Warehouse-truck	638,565	Dec. 5	708	151	89	2001
Doyle, Joseph, Chicago, Ill. Vehicle-wheel	634,614	Oct. 10	1197	283	89	255
Doyle, William, Jr., New York, N. Y. Door-fastening device	635,432	Oct. 24	2742	628	89	589
Doze, Joseph E., assignor to L. P. Doze, Humeston, Iowa. Carbureter	639,965	Dec. 26	3287	752	89	2567
Doze, Lora P. (See Doze, Joseph E., assignor.)						
Drainage Construction Company. (See Waring, George E., Jr., assignor.)						
Drake Acetylene Generator Company. (See Sanford, Addison V., assignor.)						
Drake, Augustus W., Lattimer Mines, Pa. Self-oiling car-wheel	625,024	May 16	1959	439	87	1121
Drake, Charles E., assignor of one-half to L. W. Farr, Earlville, N. Y. Dish-cleaner	621,909	Mar. 28	2561	577	86	2038
Drake, Charles R., Chicago, Ill. Embalming apparatus	618,069	Jan. 24	2320	517, 518	86	505
Drake, Emma B. (See Barns, Ebenezer A., assignor.)						
Drake, Francis J., Kingston, Canada. Saw-guide	634,206	Oct. 3	416	105, 106	89	86
Drake, George H., Omaha, Nebr., assignor of one-half to A. M. Castle, Chicago, Ill. Supporting-lug for boilers	617,524	Jan. 10	1258	287	86	265

Alphabetical list of patentees—Continued.

Name, residence, and invention.	No.	Date.	Monthly volume.		Official Gazette.	
			Spec.	Drg.	Vol.	Page.
Drake, Harry R., *et al.* (See Davis, Sylvanus E., assignor.)						
Drake, Isaac T. (See Young and Drake.)						
Drake, Lewis C., *et al.* (See Mason, James F., assignor.)						
Drake, Luther J. (See Phinney, Etta W., assignor.)						
Drake, Nelson D., *et al.* (See Davis, Sylvanus E., assignor.)						
Drake, Thomas C., Malta, Ohio. Battery cut-out for electric selector systems	622,669	Apr. 11	889	205	87	189
Drake, Warren A., Chicago, Ill. Arithmetical calculator	625,025	May 16	1961	439	87	1121
Drake, Wilber P. (See Drake, William M. and W. P.)						
Drake, William H., Winthrop, Ark. Plow-foot	618,070	Jan. 24	2322	518	86	505
Drake, William M. and W. P., Sallisaw, Ind. Ter. Churn	629,781	Aug. 1	38	10	88	728
Draper, Charles T., Cleveland, Ohio. Closure for receptacles	636,646	Nov. 7	751	164	89	1073
Draper Company. (See Allen, William E., assignor.)						
Draper Company. (See Aubé, Adjudeur, assignor.)						
Draper Company. (See Beardsell, Arthur W., assignor.)						
Draper Company. (See Bigelow, Myron J., assignor.)						
Draper Company. (See Clement, Alvah W., assignor.)						
Draper Company. (See Cunniff, John V. and E., assignors.)						
Draper Company. (See Cunniff and Kerrigan, assignors.)						
Draper Company. (See Day, Charles M., assignor.)						
Draper Company. (See Draper, George A., assignor.)						
Draper Company. (See Draper, George O., assignor.)						
Draper Company. (See Draper, William F., assignor.)						
Draper Company. (See Draper and Northrop, assignors.)						
Draper Company. (See Draper and Roper, assignors.)						
Draper Company. (See Eaton, Willie G., assignor.)						
Draper Company. (See Edwards, John C., assignor.)						
Draper Company. (See Joy, Calvin L., assignor.)						
Draper Company. (See Knight, George W., assignor.)						
Draper Company. (See Knight and Bracken, assignors.)						
Draper Company. (See Littlefield, Charles A., assignor.)						
Draper Company. (See Mason, Earl P., assignor.)						
Draper Company. (See McVeigh, Thomas, assignor.)						
Draper Company. (See Northrop, James H., assignor.)						
Draper Company. (See Northrop, Jonas, assignor.)						
Draper Company. (See Northrop, Jonas and J. H., assignors.)						
Draper Company. (See Raby and Spear, assignors.)						
Draper Company. (See Rhoades, Alonzo E., assignor.)						
Draper Company. (See Stimpson, Edward S., assignor.)						
Draper Company. (See Stimpson, Wallace I., assignor.)						
Draper Company. (See Syme, David B., assignor.)						
Draper Company. (See Whitmore, Fred A., assignor.)						
Draper, Francis M., Dana, Ind. Acetylene-gas generator	627,178	June 20	1776	389 390	87	1997
Draper, George A., Hopedale, Mass., assignor to Draper Company, Hopedale, Mass., and Portland, Me. Lay for looms	621,750	Mar. 21	2252	508	86	1963
Draper, George A., and C. F. Roper, Hopedale, Mass., assignors to Draper Company, Hopedale, Mass., and Portland, Me. Lay for looms	621,751	Mar. 21	2253	508	86	1964
Draper, George O., Hopedale, Mass., assignor to Draper Company, Hopedale, Mass., and Portland, Me. Warp-stop-motion apparatus	618,378	Jan. 24	2893	641	86	612
Draper, George O., Hopedale, Mass., assignor to Draper Company, Hopedale, Mass., and Portland, Me. Ring-spinning machine	622,180	Mar. 28	3056	693	86	2136
Draper, George O., Hopedale, Mass., assignor to Draper Company, Hopedale, Mass., and Portland, Me. Ring-spinning machine	622,181	Mar. 28	3058	693	86	2136
Draper, George O., Hopedale, Mass., assignor to Draper Company, Hopedale, Mass., and Portland, Me. Warp-stop-motion apparatus	622,182	Mar. 28	3059	693	86	2137
Draper, George O., Hopedale, Mass., assignor to Draper Company, Hopedale, Mass., and Portland, Me. Warp-stop-motion apparatus	622,183	Mar. 28	3061	694	86	2137
Draper, George O., Hopedale, Mass., assignor to Draper Company, Hopedale, Mass., and Portland, Me. Warp-stop-motion apparatus	622,184	Mar. 28	3062	694	86	2137
Draper, George O., Hopedale, Mass., assignor to Draper Company, Hopedale, Mass., and Portland, Me. Spindle-bearing	625,154	May 16	2191	498	87	1163
Draper, George O., Hopedale, Mass., assignor to Draper Company, Hopedale, Mass., and Portland, Me. Filling-end holder for automatic looms	626,201	May 30	4195	953	87	1589
Draper, George O., Hopedale, Mass., assignor to Draper Company, Hopedale, Mass., and Portland, Me. Warp-stop-motion detector for looms	626,412	June 6	368	87	87	1685
Draper, George O., Hopedale, Mass., assignor to Draper Company, Hopedale, Mass., and Portland, Me. Spindle and bearing	632,989	Sept. 12	1465	341	88	2010
Draper, George O., Hopedale, Mass., assignor to Draper Company, Hopedale, Mass., and Portland, Me. Spindle and bearing	638,566	Dec. 5	709	151	89	2001
Draper, George O., Hopedale, Mass., assignor to Draper Company, Hopedale, Mass., and Portland, Me. Warp stop-motion for looms	638,567	Dec. 5	710	151	89	2002
Draper, George O., Hopedale, Mass., and J. H. Northrop, Tustin, Cal., assignors to Draper Company, Hopedale, Mass., and Portland, Me. Check for picker-sticks	632,553	Sept. 5	643	149	88	1834
Draper, James T., Pingelly, assignor to J. S. Heithersay, Albany, Western Australia. Perpetual date-calendar for pencil-cases, walking-sticks, &c	633,435	Sept. 19	2340	552	88	2194
Draper, Jason F., assignor to Draper & Maynard Company, Ashland, N. H. Catcher's mitt	627,687	June 27	2758	604	87	2207
Draper & Maynard Company. (See Draper, Jason F., assignor.)						
Draper, Morris B., *et al.* (See Reynolds, Noah H., assignor.)						
Draper & Sons, Geo. (See Northrop, James H., assignor.)						
Draper, William F., Hopedale, Mass., assignor to Draper Company, Hopedale, Mass., and Portland, Me. Warp stop-motion for looms	636,503	Nov. 7	469	105	89	1015
Dratz, Charles, Brussels, Belgium. Process of and apparatus for printing multicolored designs	627,329	June 20	2058	453 454	87	2054
Draughon, Hardy H., Mingo, N. C. Bird-call	626,827	June 13	1122	251	87	1849
Draullette, Edmond, and E. Catois, Paris, France. Speed varying and steering device for motor-vehicles	633,234	Sept. 19	1960	460	88	2120
Draver, Emil R., assignor of one-third to H. C. Draver, Winchester, Ind. Grinding-mill	636,121	Oct. 31	4073	931 932	89	863
Draver, Henry C. (See Draver, Emil R., assignor.)						
Drawbaugh, Daniel, Eberly's Mill, Pa. Collapsible box	632,451	Sept. 5	442	99	88	1794
Dreckmann, Johann, Cassel, Germany. Siphon for beer	633,341	Sept. 19	2168	508 509	88	2160
Dreese, John D., Halstead, Kans. Fish-hook	627,179	June 20	1780	390	87	1998
Dreher, Adam, Jr., Cullman, Ala. Game	622,130	Mar. 28	2961	670	86	2117
Dreher, Carl, Freiburg, Germany. Resin soap	634,448	Oct. 10	906	------	89	198

Alphabetical list of patentees—Continued.

Name, residence, and invention.	No.	Date.	Monthly volume. Spec.	Monthly volume. Dr'g.	Official Gazette. Vol.	Official Gazette. Page.
Dreher, Carl, assignor to C. H. Boehringer Sohn, Nieder Ingelheim, Germany. Lactic-acid dye	630,199	Aug. 1	870		88	894
Dreier, Emil T., Hanapepe, Hawaii. Water-filter	637,095	Nov. 14	1663	360	89	1280
Dreisbach, William I., Williamsport, Pa. Pneumatic tire	622,796	Apr. 11	1098	255	87	228
Drennan, Charles M., Boston, Mass. Burial-casket	620,542	Feb. 28	3169	726	86	1480
Drescher, Arthur, New York, N. Y. Portable electric lamp	623,656	Apr. 25	2681	615	87	570
Dresser, Charles A., assignor to G. A. E. and F. W. Kohler, Chicago, Ill. Motor speed-controller	618,071	Jan. 24	2324	518	86	506
Dresser, Solomon R., Bradford, Pa. Pipe-coupling	625,155	May 16	2193	498	87	1163
Dresser, Stephen G., Boston, Mass. Reefing apparatus for fore-and-aft sails	630,038	Aug. 1	591	129	88	840
Drew, George F., assignor of one-half to A. Caldwell, Providence, R. I. Rocking article	617,438	Jan. 10	1118	255	86	236
Drew, George F., assignor of one-half to A. Caldwell, Providence, R. I. Picture-molding	628,140	July 4	346	82	88	70
Drew, Walter J., assignor to Bissell Carpet Sweeper Company, Grand Rapids, Mich. Carpet-sweeper	621,639	Mar. 21	2026	452	86	1918
Drewsen, Viggo. (See Richards and Drewsen.)						
Drewsen, Viggo, New York, N. Y. Apparatus for making bisulfite-of-lime liquor	617,237	Jan. 3	714	166	86	140
Drewsen, Viggo, New York, N. Y., and L. J. Dorenfeldt, Rheinduerkheim, Germany. Utilizing sulfite lyes	620,755	Mar. 7	413		86	1582
Drexler, Edward J., Paterson, N. J. Sash and blind lock	633,436	Sept. 19	2341	552	88	2194
Dreyer, Richard, Sea Cliff, N. Y. Apparatus for filling oil-cans	617,566	Jan. 10	1348	304	86	282
Dreyfus, Marius, Paris, France. Lamp	626,990	June 13	1449	318	87	1913
Dreyfuss, Isidor, New York, N. Y. Paper cut-off for box-covering machines	619,150	Feb. 7	676	145, 146	86	943
Dreyfuss, Isidor, New York, N. Y. Paper-cutting attachment for box-covering machines	622,131	Mar. 28	2962	670	86	2117
Driesbach, Victor C., Philadelphia, Pa. Filtering apparatus	630,870	Aug. 15	2134	484	88	1176
Driggs, Gertrude. (See Stadtfeld, Charles, assignor.)						
Driggs-Seabury Gun and Ammunition Company. (See Driggs and Tasker, assignors.)						
Driggs, William H., and V. C. Tasker, Washington, D. C.; said Tasker assignor to Driggs-Seabury Gun and Ammunition Company, New York, N. Y. Recoil-operated gun	625,326	May 23	2510	570, 571	87	1250
Drinhaus, Rudolph, E., *et al.* (See Horn, Louis, assignor.)						
Drinkwater, Orlo H., Cottonwood Falls, Kans. Wagon-body lifter	634,404	Oct. 3	820	198	89	164
Driscoll, James H., Rouse's Point, N. Y. Inner tube for pneumatic tires	618,072	Jan. 24	2325	518	86	506
Driscoll, James H., Rouse's Point, N. Y. Clamp for inserting tubes in pneumatic tires	618,073	Jan. 24	2326	519	86	506
Driscoll, Martin R., Frisco, Utah. Screen for stamp-mills	629,242	July 18	2395	555	88	501
Driver, John S. (See Wolever, Frank H., assignor.)						
Driver, William H. (See Mullenix, John S., assignor.)						
Drivet, Henri. (See Bilbie and Drivet.)						
Drohan, Thomas E., assignor to Siemens & Halske Electric Company of America, Chicago, Ill. Electric-arc lamp	619,014	Feb. 7	418	87	86	891
Drohan, Thomas E., assignor to Siemens & Halske Electric Company of America, Chicago, Ill. Arc-lamp	623,279	Apr. 18	2006	460	87	420
Drohan, Thomas E., assignor to Siemens & Halske Electric Company of America, Chicago, Ill. Globe-holding device for electric-arc lamps	627,486	June 27	2372	522	87	2132
Drohan, Thomas E., assignor to Siemens & Halske Electric Company of America, Chicago, Ill. Globe	627,487	June 27	2373	522	87	2132
Droke, John M. (See Honnoll and Droke.)						
Drolet, François X., St. Roch, Canada. Valve-gear for engines	624,196	May 2	458	96	87	787
Druce, Samuel J. (See Johnson, James T., assignor.)						
Drum, George E., assignor of one-half to R. P. Smith, Philadelphia, Pa. Automatic-operating air-compressor	639,539	Dec. 19	2486	573, 574	89	2388
Drummond, Dugald, Surbiton, England. Locomotive-boiler	629,893	Aug. 1	269	60	88	772
Drummond, Hartwell A., Providence, R. I. Ironing device for smoothing edges of laundered-shirt neckbands	629,066	July 18	2086	486	88	444
Drummond, Isaac W., New York, N. Y. Paint-mixer	624,632	May 9	1258	281	87	966
Drury, John F., Johnstown, Pa. Hotel-register	617,645	Jan. 10	1489	339, 340	86	310
Dryer, George W., Easton, Pa. Car-seat	631,204	Aug. 15	2739	620, 621	88	1295
Drynan, David, Glasgow, and A. R. Fulton, Motherwell, Scotland. Roller-bearing	629,067	July 18	2087	486, 487	88	444
Drysdale, Bruce. (See Vocc and Drysdale.)						
Drzewiecki, Stephane, Paris, France. Torpedo-launching apparatus	621,640	Mar. 21	2027	452, 453, 454	86	1919
Du Bois, Charles F., Denver, Colo. Air-compressor	631,701	Aug. 22	3652	823	88	1495
Du Bois, Henry L., assignor, by mesne assignments, to J. G. Mariner, Philadelphia, Pa. Heating attachment for lamp-chimneys	634,809	Oct. 10	1530	360	89	320
Du Bois, Howard M., Ashbourne, Pa. Vehicle-tire	637,717	Nov. 21	3221	670	89	1641
Du Bois, Rhesa G., South Orange, N. J., assignor to Horton Basket Machine Company, New York, N. Y. Basket-making machine	635,374	Oct. 24	2578	599	89	558
Du Brul, Albert, New York, N. Y., assignor to Miller, Du Brul & Peters Manufacturing Company, Cincinnati, Ohio. Cigar-bunching-machine filler-feeding device	636,961	Nov. 14	1406	300, 301	89	1231
Du Pont, Francis G., Wilmington, Del. Apparatus for purifying water	620,234	Feb. 28	2630	599	86	1376
Du Pont, Francis G. and F. I., Wilmington, Del. Making explosives	633,611	Sept. 26	2681	624	88	2272
Du Pont, Francis I. (See Du Pont, Francis G. and F. I.)						
Du Pont, Thomas C., Johnstown, Pa., assignor to Johnson Company, of Pennsylvania. Rail-joint	633,731	Sept. 26	2890	672	88	2315
Du Vall, Wallace L., Pearson, Ga. Canning-machine	627,330	June 20	2060	454	87	2055
Dübendorfer, Heinrich, assignor to J. Enderli, Zurich, Switzerland. Safety oil-can	618,563	Jan. 31	3256	723	86	695
Ducasble, Alfred, Asnières, France, assignor, by mesne assignments, to C. E. Platt, trustee, Philadelphia, Pa. Elastic tire for autocars	639,156	Dec. 12	1762	407	89	2230
Ducat, Henry A., Milwaukee, Wis. Brush	626,529	June 6	569	132	87	1724
Ducharme, Fraucis, Shelburne Falls, Mass. Tool-handle	628,927	July 18	1841	428	88	396
Duck, Charles E., Baltimore, Md. Door-fastener	635,530	Oct. 24	2910	664	89	623
Ducommun, Armand, Bakersfield, Cal. Separable button	634,056	Oct. 3	123	32	89	29
Ducornot, Roger, Puteaux, France. Safety contact-interrupter for suspended electric wires or cables	637,096	Nov. 14	1664	360	89	1281
Ducruix, Marie M. (See Rosinski and Ducruix.)						
Duden, Emil, Indianapolis, Ind. Reversible envelop and letter-sheet and coin-carrier combined	627,255	June 20	1909	420	87	2024
Dudgeon, William M., executor. (See Wecks, John, assignor.)						
Dudley, George E., Oakland, Cal. Surgical appliance	622,333	Apr. 4	236	53	87	45
Dudley, John W., assignor to J. C. Williams, Chicago, Ill. Piston-rod packing	619,468	Feb. 14	1235	281	86	1070
Dudley, Plimmon H., New York, N. Y. Instrument for testing rails under moving trains	628,928	July 18	1842	428	88	396
Dudley, Uriah, Drake, New South Wales. Clip or binder	622,610	Apr. 4	761	177	87	145

Alphabetical list of patentees—Continued.

Name, residence, and invention.	No.	Date.	Monthly volume.		Official Gazette.	
			Spec.	Dr'g.	Vol.	Page.
Dudley, William L., Nashville, Tenn. Snuff tablet	639,365	Dec. 19	2187	------	89	2330
Dudley, William L., Nashville, Tenn. Manufacture of snuff tablets	639,366	Dec. 19	2188	------	89	2330
Duenkel, Charles L., Jersey City, N. J. Device for removing and replacing fuses	626,371	June 6	304	70	87	1673
Duerden, Lawrence L., assignor to Thompson & Norris Company, New York, N. Y. Making packing material	620,756	Mar. 7	414	85	86	1582
Duey, Albert F., Salida, Colo. Apparatus for leaching ores	623,772	Apr. 25	2909	665	87	615
Duffner, William, Mitchell, Ind. Chair	618,337	Jan. 24	2816	625	86	597
Duffy, Edward F., Hartford, Conn. Hydrant	618,169	Jan. 24	2532	560	86	543
Duffy, Joseph, Paterson, N. J. Organzine-spinner	631,563	Aug. 22	3421	773	88	1448
Duffy, Patrick F., Washington, D. C. Bicycle-frame	633,127	Sept. 19	1750	412	88	2077
Duffy, Thomas I., assignor, by mesne assignments, to "E Klips" Specialty Company, Chicago, Ill. Toe-clip for bicycles	625,156	May 16	2196	499	87	1164
Dufresne, L. Edmond. (See Bergeron, Onesime I., assignor.)						
Duisburger Maschinenbau-Actien-Gesellschaft, vormals Bechem & Keetman. (See Haferkamp, Aloys, assignor.)						
Dujardin, Paul J. R., Paris, France. Secondary battery	621,523	Mar. 21	1824	406	86	1879
Duke, John F., London, England. Apparatus for making fluid extracts	617,322	Jan. 10	875	205	86	190
Dukelow, Charles T., Boston, Mass. Advertising device	637,988	Nov. 28	3722	783	89	1761
Dukes & Co. (See Dukes, Edward T., assignor.)						
Dukes, Edward T., assignor to Dukes & Co., Quitman, Ga. Artificial bait	632,554	Sept. 5	645	150	88	1834
Duket, John J. (See Wheeler and Duket.)						
Dula, Robert B., St. Louis, Mo. Apparatus for treating tobacco	626,202	May 30	4196	953, 954	87	1589
Dulin, Charles E., Sandy Hill, N. Y., assignor to Union Bag and Paper Company, Chicago, Ill. Paper-bag machine	626,372	June 6	307	71	87	1673
Dull, Robert F., Bridgewater, Va. Acetylene-gas generator	620,757	Mar. 7	415	85	86	1582
Dull, Robert F., Bridgewater, Va. Acetylene-gas generator	627,989	July 4	56	11	88	13
Dulmage, Arthur E., Oberlin, Ohio. Cream-separator	633,437	Sept. 19	2342	552	88	2194
Dumas, Adolord J., Abbotsford, Wis. Rail-joint	631,459	Aug. 22	3213	730	88	1407
Dumas, Harry M., Detroit, Mich. Electric-call system	632,964	Sept. 12	1428	330	88	2003
Dumas, Louis C. (See Guillaume and Dumas.)						
Dumbeck, Gustav A. (See Butts and Dumbeck.)						
Dumée, Edward J. (See Buchwalter, Calvin H., assignor.)						
Dumesnil, Henry, *et al.* (See Trabue, William, assignor.)						
Dumke, Edward. (See Stock, George M., assignor.)						
Dumphy, John. (See Thompson, Rolland, assignor.)						
Dun Lany, William P., and T. Mills, assignors to International Facsimilegraph Company, Cleveland, Ohio. Facsimile telegraph	631,421	Aug. 22	3144	713, 714	88	1393
Dunbar, C. W. (See Trafton, Frank, assignor.)						
Dunbar, Clement A., Detroit, Mich. Skirt-clasp	632,342	Sept. 5	242	57	88	1755
Dunbar, Emmerson E., assignor of one-half to S. A. Luthy, Delta, Ohio. Portable building	618,851	Feb. 7	58	12	86	815
Dunbar, George W. (See Baer and Dunbar.)						
Dunbar, Leander L., Linn Grove, Ind. Post-hole auger	619,075	Feb. 7	529	111	86	913
Dunbar, Miles E., Stockbridge, Mass. Bicycle-brake	635,677	Oct. 24	3175	731	89	674
Dunbar, Wilmer, assignor to Whitman & Barnes Manufacturing Company, Akron, Ohio. Rubber-soled shoe	631,283	Aug. 22	2893	654	88	1343
Duncan, Charles N., assignor of one-half to O. W. Boardman, Kewanee, Ill. Tap	637,718	Nov. 21	3223	670	89	1642
Duncan, Elbridge E., *et al.* (See Reed, Sextus L., assignor.)						
Duncan, Francis A., Findlay, Ohio. Mold	627,666	June 27	2721	597	87	2201
Duncan, Frank K. (See Weishampel and Duncan.)						
Duncan, George S., Tarnagulla, Victoria. Apparatus for separating gold and silver bearing solutions from ores or slimes	623,465	Apr. 18	2332	535	87	487
Duncan, James E., Centralia, Wis. Computing-machine	617,323	Jan. 10	878	206	86	190
Duncan, John, Toronto, Canada. Gas-regulator	621,996	Mar. 28	2729	616	86	2070
Duncan, John R., assignor to S. V. Perrott, Indianapolis, Ind. Oil-burner	634,288	Oct. 3	601	148	89	120
Duncan, Joseph S., Chicago, Ill. Machine for making printing-plates	638,176	Nov. 28	4098	865, 866	89	1834
Duncan, Joseph S., assignor to Addressograph Company, Chicago, Ill. Machine for making printing-plates	624,764	May 9	1486	337, 338, 339	87	1012
Duncan, Joseph S., assignor to Addressograph Company, Chicago, Ill. Printing-plate	636,504	Nov. 7	470	105	89	1015
Duncan, Thomas, Fort Wayne, Ind. Electric meter	619,733	Feb. 21	1732	395	86	1191
Duncan, Thomas, Fort Wayne, Ind. Electric meter	619,734	Feb. 21	1733	395, 396	86	1191
Duncan, Thomas, Fort Wayne, Ind. Multiple-rate electric meter	619,735	Feb. 21	1736	396	86	1191
Duncan, Thomas, Fort Wayne, Ind. Electric meter	623,521	Apr. 25	2440	559, 560	87	527
Duncan, Thomas, Fort Wayne, Ind. Electric meter	623,522	Apr. 25	2442	560	87	527
Duncan, Thomas, Fort Wayne, Ind. Electric meter	623,523	Apr. 25	2444	560, 561	87	527
Duncan, Thomas, Fort Wayne, Ind. Electric meter	623,524	Apr. 25	2446	562	87	528
Duncan, Thomas, Fort Wayne, Ind. Electric meter	623,525	Apr. 25	2447	562	87	528
Duncan, Thomas, Fort Wayne, Ind. Phase adjustment	623,526	Apr. 25	2449	563, 564	87	528
Duncan, Thomas, Fort Wayne, Ind. Electric meter	623,527	Apr. 25	2451	564	87	528
Duncan, Thomas, Fort Wayne, Ind. Electric motor	623,528	Apr. 25	2453	564	87	529
Duncan, Thomas, Fort Wayne, Ind. Electric meter	623,529	Apr. 25	2454	565	87	529
Duncan, Thomas, Fort Wayne, Ind. Electric meter	623,530	Apr. 25	2456	565	87	529
Duncan, Thomas, Fort Wayne, Ind. Multiple-rate electric meter	623,531	Apr. 25	2458	566	87	530
Duncan, Thomas, Fort Wayne, Ind. Electric meter	623,532	Apr. 25	2460	566	87	530
Duncan, Thomas, Fort Wayne, Ind. Electric meter	628,240	July 4	520	126	88	103
Duncan, Thomas, Chicago, Ill. Electric motor. (Reissue)	11,783	Nov. 7	962	207	89	1127
Duncan, William, Day Dawn Ridge, Charters Towers, Queensland. Means for mixing and aerating sands or tailings while under treatment by solvents	639,540	Dec. 19	2486	574	89	2389
Duncan, William, Kearny, assignor, by mesne assignments, to American Metal Lath Fireproof Construction and Manufacturing Company, Newark, N. J. Machine for making expanded metal lathing	639,157	Dec. 12	1763	407, 408	89	2230
Duncan, Zach T. (See Cook, John W. B., assignor.)						
Duncklee, Granville W., Brockton, Mass. Hand-stamp handle	621,997	Mar. 28	2731	617	86	2071
Dundas, Henry. (See Kershaw, Percy B. W., assignor.)						
Dunderdale, Cleaveland F., Chicago, Ill. Telephone	627,577	June 27	2548	561	87	2166
Dundon, Patrick F., San Francisco, Cal. Superheating apparatus	620,290	Feb. 28	2730	626	86	1396
Duner, John C., assignor to W. H. Forsyth, Chicago, Ill. Sand-box for cars	639,891	Dec. 26	3144	723	89	2537
Dungan, James M., Indianapolis, Ind. Hose and nozzle holder	622,132	Mar. 28	2964	671	86	2118
Dungan, Michael M., Homer, Ill. Farm-gate	618,852	Feb. 7	61	13	86	816

Alphabetical list of patentees—Continued.

Name, residence, and invention.	No.	Date.	Monthly volume.		Official Gazette.	
			Spec.	Dr'g.	Vol.	Page.
Dungan, Michael M., Homer, Ill. Farm-gate	632,255	Sept. 5	86	19	88	1724
Dungan, Michael M., Homer, Ill. Farm-gate	632,256	Sept. 5	87	19	88	1724
Dunham, Benjamin F., Danbury, Conn. Machine for marking hat-bodies	626,889	June 13	1281	280, 281	87	1880
Dunham, Benjamin F., Brockton, assignor to Amazeen Machine Company, Boston, Mass. Skiving-machine	632,990	Sept. 12	1466	341, 342	88	2011
Dunham, Charles L., Centre View, Ohio, assignor of one-half to C. C. Chamberlain and F. Burt, Sistersville, W. Va. Wrench for well-drilling tools	632,555	Sept. 5	646	150	88	1834
Dunham, Frederick, Deering, Me. Lamp-chimney	617,394	Jan. 10	1037	236	86	221
Dunham, George, Unionville, Conn. Nut-tapping machine	619,548	Feb. 14	1365	314, 315	86	1096
Dunham, George, Unionville, Conn. Machine for finishing or facing nuts	622,334	Apr. 4	238	54	87	45
Dunham, George H. (See Wallace, Robert, assignor.)						
Dunham, Herbert F., New York, N. Y. Apparatus for extinguishing fires	632,702	Sept. 12	943	219	88	1907
Dunham, Morton L., Toledo, Canada. Evaporating-pan	631,958	Aug. 29	4121	928	88	1594
Dunham, William J., assignor of one-half to G. Hendrie, Gloversville, N. Y. Leather-working machinery	630,039	Aug. 1	593	129	88	840
Dunhill, Alfred, London, England. Means for excluding air from tins, bottles, jars, or other receptacles	619,878	Feb. 21	2011	457	86	1245
Dunklee, Delano D., *et al.* (See Gregg, James W., assignor.)						
Dunlap, Arthur O. (See Stem and Dunlap.)						
Dunlap, Edgar C., Bridgeport, Conn., assignor to A. Kimball Co., New York, N. Y. Tag-pin	622,453	Apr. 4	453	106	87	84
Dunlap, Harley M., Battle Creek, Mich. Vaporizer	620,895	Mar. 14	665	145	86	1645
Dunlap, Harley M., Battle Creek, Mich. Stop-cock or valve	629,894	Aug. 1	269	61	88	772
Dunlap, Harley M., Battle Creek, Mich. Pressure-regulator and connection	632,808	Sept. 12	1145	263	88	1949
Dunlap, Oliver W. (See Elder and Dunlap.)						
Dunlap, William A., Pittsburg, Pa. Spout and spouted vessel	628,652	July 11	1351	315	88	281
Dunlap, William A., Pittsburg, Pa. Miner's lamp	628,653	July 11	1352	315	88	281
Dunlea, Thomas J., Binghamton, N. Y. Computing-scale	619,286	Feb. 14	933	211	86	1011
Dunlop, John B. and John B., Jr., Dublin, Ireland. Adjustable bearing	623,999	May 2	84	18	87	718
Dunlop, Samuel, and G. H. Oatway, Dunedin, New Zealand. Mud-guard	626,018	May 30	3813	867	87	1520
Dunn, Beverly W., U. S. Army, assignor to Scovill Manufacturing Company, Waterbury, Conn. Ball for shrapnel	631,702	Aug. 22	3654	824	88	1496
Dunn, Beverly W., U. S. Army, assignor to Scovill Manufacturing Company, Waterbury, Conn. Shrapnel shell	631,703	Aug. 22	3655	824	88	1496
Dunn, Clarence. (See McCormick, William D., assignor.)						
Dunn, Emma J., Humeston, Iowa. Velocipede	632,809	Sept. 12	1146	264	88	1949
Dunn, Gano S., East Orange, N. J., assignor to Crocker-Wheeler Electric Company, of New Jersey. Brush-holder for dynamo-electric machines	618,853	Feb. 7	62	13	86	816
Dunn, Gano S., East Orange, N. J., assignor to Crocker-Wheeler Company, of New Jersey. Multiple-blade starting-switch	638,627	Dec. 5	830	179, 180	89	2025
Dunn, George A. and R. F., Dinuba, Cal. Car and portable turn-table	633,235	Sept. 19	1962	460	88	2120
Dunn, James F., Salt Lake City, Utah. Locomotive-cab platform	631,739	Aug. 22	3732	837, 838	88	1508
Dunn, James F., Salt Lake City, Utah. Pedestal brace-bolt	634,748	Oct. 10	1439	338	89	302
Dunn, James F., Salt Lake City, Utah. Railway-car	634,749	Oct. 10	1440	339	89	302
Dunn, John W. (See Woodward, Dunn, and Robertson.)						
Dunn, John W., Newark, N. J., assignor to John R. Williams Company, New York, N. Y. Cigar-making machine	633,579	Sept. 26	2604	609, 610, 611, 612	88	2260
Dunn, John W., Newark, N. J., assignor to John R. Williams Company, New York, N. Y. Machine for cutting out cigar wrappers and binders	633,580	Sept. 26	2618	612, 613	88	2261
Dunn, Joseph. (See Shook, Barton, Shannon, Dunn, and Ramsay.)						
Dunn, Leonard F., Oneida, N. Y. Artificial tooth	627,720	June 27	2814	617	87	2219
Dunn, Robert F. (See Dunn, George A. and R. F.)						
Dunn, Russell L., San Francisco, Cal., assignor of three-fourths to C. S. Preston and F. Hanford, Seattle, Wash. Air-compressor	630,495	Aug. 8	1478	331, 332	88	1024
Dunn, William. (See Nies and Dunn.)						
Dunn, William J., Chicago, Ill., assignor to F. Moore, Pittsburg, Pa. Window	631,564	Aug. 22	3424	773, 774	88	1449
Dunn, William R., assignor to himself and J. M. Jenkins, Alton, Ind. Computing-scale	623,533	Apr. 25	2462	567	87	531
Dunne, Thomas J. (See Koehler, Fred L. and A., assignors.)						
Dunning, Robert, Buffalo, N. Y. Trolley-wire cleaner	638,047	Nov. 28	3844	808	89	1785
Dunning, Samuel H., Paterson, N. J. Compound locomotive	617,238	Jan. 3	715	166	86	140
Dunphy, John. (See Thompson, Rolland, assignor.)						
Dunsford, G. E., *et al.* (See Kaiser, John B., assignor.)						
Dunsky, Alfred, Berlin, Germany. Manufacturing inlaid work	637,376	Nov. 21	2235	481	89	1408
Dunston, Jackson O., Newberry, S. C. Cultivator	619,151	Feb. 7	681	146	86	945
Dunsworth, George W., Chicago, Ill. Combined bicycle and carrier	623,144	Apr. 18	1760	405	87	371
Dunton, Wallace A., Los Angeles, Cal. Irrigator	627,846	June 27	3037	663	87	2263
Dupaw, Josiah, Washington, D. C. Machine for moistening, closing, and sealing envelops	632,991	Sept. 12	1469	342	88	2011
Dupaw, Josiah, assignor to E. D. Cross, Washington, D. C. Brush-handle	619,252	Feb. 7	859	188	86	980
Dupea, Fredrick A. (See House and Dupea.)						
Dupeyron, Auguste H., and E. A. Phalempin, Paris, France. Machine for rectifying balls	632,403	Sept. 5	351	80	88	1775
Duplex Printing Press Company. (See Bechman. Henry F., assignor.)						
Duppler, Anton, Jersey City, N. J., assignor to Electric Selector and Signal Company, of West Virginia. Selecting instrument	626,806	June 13	1081	243	87	1842
Dupre, Cellestian C., Vining, Iowa. Potato-digger	621,232	Mar. 14	1299	287	86	1766
Dupuis, Charles A. (See Chouteau and Dupuis.)						
Duquette, Louis N., Southbridge, Mass. Fire-escape	636,771	Nov. 14	1044	223, 224	89	1160
Durand, Henry S., Rochester, R. M. Beck and R. K. McLellan, assignors to Phillips Manufacturing Company, New York, N. Y. Mechanical motor	629,343	July 25	2585	599, 600	88	557
Durand, Huguenin & Cie., L. (See Barbier, Philippe, assignor.)						
Durand, Huguenin & Cie., L. (See De la Harpe and Vaucher, assignors.)						
Durand, Huguenin & Cie., L. (See Müller, Carl O., assignor.)						
Durand, John E., *et al.* (See McConnell, Louis Y., assignor.)						
Durand, John E., *et al.* (See Myers, Oscar M., assignor.)						
Durand, Roch, Apple River, Wis. Milk-can	632,556	Sept. 5	647	150	88	1834
Durant, Edward W., Stillwater, Minn. Brush-handle	630,600	Aug. 8	1675	376, 377	88	1063
Durey, Camille, Paris, France. Electrohydraulic brake for railway-vehicles	627,772	June 27	2903	634, 635	87	2237

Alphabetical list of patentees—Continued.

Name, residence, and invention.	No.	Date.	Monthly volume. Spec.	Monthly volume. Dr'g.	Official Gazette. Vol.	Official Gazette. Page.
Durfee, Charles G., *et al.* (See Spies, Peter H. F., assignor.)						
Durfee, John, *et al.* (See Spies, Peter H. F., assignor.)						
Durgin, Henry J., Rochester, N. Y. Slide for extension-tables. (Reissue)	11,781	Oct. 31	4283	983	89	905
Durham, John E., and J. E. Devine, assignors to E. E. Weed, D. M. and C. Gerber, Douglas, Mich. Basket-making machine	633,342	Sept. 19	2170	509	88	2160
Durham, Richard T., Richmond, Va. Coin-lock garment-holder	636,962	Nov. 14	1407	301	89	1231
Durham, Shiloh W., Bushnell, Ill. Hammer-head for pianos	620,430	Feb. 28	2959	678	86	1439
Durie, James, Elmira, N. Y. Reducing metallic sulfids	624,000	May 2	85	------	87	718
Durkee, Egbert S., assignor to Victoria Self Lacing Company, Boston, Mass. Fastener for use in lasting shoes	628,777	July 11	1566	361	88	326
Durkee, Jerry N., Providence, R. I., assignor of one-half to O. W. Norcross, Worcester, Mass. Stone-planer for planing curved surfaces	625,968	May 30	3674	834, 835	87	1493
Durkee, Lafayette, Denver, Colo. Drill	627,847	June 27	3088	663, 664	87	2263
Durlam, John, Buffalo, N. Y. Smoke-consuming globe	621,910	Mar. 28	2562	577	86	2039
Durman, Michael E., Woodmere, Mich. Engine	637,754	Nov. 21	3293	687	89	1656
Durnbaugh, Joseph A., Washington, D. C. Lock	625,249	May 16	2358	536	87	1195
Durnell, Cecil M., assignor to P. J., Jr., F., and W. C. Roberts, Independence, Mo. Hand-cultivator	625,386	May 23	2611	594	87	1269
Durnell, Cecil M., assignor to D. C. Halleran, T. W. Milner, and T. A. Brady, Independence, Mo. Combined skirt fastener and supporter	626,273	June 6	97	25	87	1633
Durnell, Cecil M., assignor to R. D. Wirt and C. E. Knox, Independence, Mo. Cultivator	637,747	Nov. 21	3272	682	89	1651
Durnerin, Gabriel, Los Angeles, Cal. Bearing	639,205	Dec. 12	1866	430	89	2249
Dürr, Friedrich, Berlin, Germany. Power-transmitting mechanism	618,401	Jan. 31	2966	657	86	642
Dürr, Fritz, Berlin, Germany. Friction-gearing	619,152	Feb. 7	683	146	86	945
Dürr, Fritz, Berlin, Germany. Valveless two-cycle hydrocarbon-motor	625,387	May 23	2613	594	87	1270
Dürr, Fritz, Berlin, Germany. Superheater	640,115	Dec. 26	3555	817	89	2623
Durrenberger, George, assignor to L. A. Mills, Middlefield, Conn., executor of W. Lyman, deceased. Sight for firearms	629,670	July 25	3189	743	88	676
Durrenberger, George, assignor to L. A. Mills, Middlefield, Conn., executor of W. Lyman, deceased. Sight for firearms	629,671	July 25	3192	744	88	676
Durst, John B., assignor to R. L. Fairchild, Buffalo, N. Y., and F. Wood, Boston, Mass. Machine for cutting grooves in articles	638,450	Dec. 5	505	102, 103	89	1963
Duruz, Henri, Lausanne, Switzerland. Paper-feeding mechanism for type-writers or the like	628,454	July 11	944	219, 220	88	201
Duryea, Charles E., Peoria, Ill. Hot-air furnace for domestic heating purposes	625,250	May 16	2362	537	87	1196
Dusedau, William, New York, N. Y. Ropeway	626,783	June 13	1045	234	87	1836
Dusenbury, Caleb C. (See Fuller, John E., assignor.)						
Dusheck, John, Freeland, assignor of one-third to H. W. Jacobs, Hazleton, Pa. Beer-fountain	626,151	May 30	4097	934	87	1570
Dussair, John C. (See Sheer, Henry M., assignor.)						
Dussair, John C., *et al.* (See Fogal, John E. W., assignor.)						
Dusseau, Lambert V. (See Waters, Alfred W., assignor.)						
Duthie, John, Portland, Oreg. Sail	640,116	Dec. 26	3556	817, 818	89	2623
Dutton, Chauncey N., New York, N. Y. Adjustable bearing	618,854	Feb. 7	63	13, 14	86	816
Dutton, Chauncey N., New York, N. Y. Truss or frame	621,469	Mar. 21	1723	383	86	1861
Dutton, Chauncey N., New York, N. Y. Aqueduct	621,470	Mar. 21	1724	383, 384, 385	86	1861
Dutton, Chauncey N., New York, N. Y. Aqueduct	626,321	Juue 6	192	47, 48	87	1650
Dutton, Chauncey N., New York, N. Y. Air-brake	634,723	Oct. 10	1393	328, 329	89	294
Dutton, Chauncey N., New York, N. Y. Air-brake	634,724	Oct. 10	1397	329, 330	89	295
Dutton, Chauncey N., New York, N. Y. Hydraulic accumulator	635,847	Oct. 31	3510	806, 807, 808	89	752
Dutton, Chauncey N., New York, N. Y. Automatic check for hydraulic cylinders	635,848	Oct. 31	3514	808	89	753
Dutton, Mary C., executrix. (See Dutton, Rufus.)						
Dutton, Roy A., Tipton, Iowa. Attachment for air-brake hose-couplings	629,987	Aug. 1	485	106	88	818
Dutton, Rufus, deceased; M. C. Dutton, Sing Sing, N. Y., executrix. Twist-drill grinder	622,212	Apr. 4	28	6, 7	87	8
Duty, Edwin Jr., Cleveland, Ohio. Trolley	624,914	May 16	1774	400	87	1086
Duty, John W., assignor of one-half to J. W. Grim, Bearsville, W. Va. Nut-lock	625,493	May 23	2801	638	87	1306
Duty, John W., assignor of one-half to J. W. Grim, Bearsville, W. Va. Car-coupling	629,344	July 25	2588	600	88	557
Duty, John W., assignor to M. T. Davis, Bearsville, W. Va. Nut-lock	636,772	Nov. 14	1046	224	89	1160
Duval, Edmond M. L., assignor to La Compagnie de Fives Lille, Paris, France. Continuous railway-brake	626,004	May 30	3787	862	87	1515
Duvall, Jephthah P., Waverly, Iowa. Attachment for harrows	638,383	Dec. 5	378	79	89	1938
Duvall, Samuel R., Ellicott City, Md. Tire setter and placer	631,157	Aug. 15	2663	602	88	1279
Duven, Matthew, Alto, Wis. Latch	626,530	June 6	570	132	87	1724
Dvoräk, Peter, Vienna, Austria-Hungary. Feeding device for platen-presses	628,158	July 4	377	89	88	76
Dwight, Herbert P. (See Perry, Charles E., assignor.)						
Dwight, Willis H., Lemars, Iowa. Tooth-crown	622,670	Apr. 11	896	205	87	190
Dwyer, Elmer F., Lynn, Mass. Incandescent lamp	624,463	May 9	954	212	87	907
Dwyer, Elmer F., Lynn, Mass. Vacuum-pump	635,375	Oct. 24	2579	599	89	558
Dwyer, James, and J. H. Lane, assignors to Peninsular Stove Company, Detroit, Mich. Stove	638,502	Dec. 5	604	125	89	1982
Dwyer, John A. (See Donehower, Downs, and Dwyer.)						
Dwyer, Patrick V., assignor to L. A. Frank, St. Paul, Minn. Extension stop-cock box	621,448	Mar. 21	1681	373	86	1851
Dyblie, Julius A., Anaconda, Mont. Apparatus for immersing castings	628,241	July 4	521	126, 127	88	104
Dyblie, Julius A., Joliet, Ill. Valve	639,673	Dec. 19	2743	630	89	2441
Dye, Charles, Paris, France. Apparatus for manufacturing tubes from gelatinous substances	634,685	Oct. 10	1317	311, 312	89	279
Dyer, Albert C., Newport, Me. Flashing for roofs	618,074	Jan. 24	2327	519	86	506
Dyer, Charles P., *et al.* (See Porter, Stephen, assignor.)						
Dyer, Czar J. (See Cobb and Dyer.)						
Dyer, Frank L., Montclair, N. J., assignor to A. B. Diek, Chicago, Ill. Copying-press	628,701	July 11	1436	333	88	298
Dyer, Frank L., Washington, D. C., assignor to American Cotton Company, New York, N. Y. Cottou-press	629,345	July 25	2590	600, 601	88	558
Dyer, Frank L. and L. H., Washington, D. C. Automobile vehicle	639,541	Dec. 19	2488	574, 575, 576	89	2389
Dyer, George H., San Francisco, Cal. Self-locking bolt for buildings	638,384	Dec. 5	379	80	89	1939
Dyer, Harold P., Cleveland, Ohio. Apparatus for treating saccharine solutions	634,233	Oct. 3	487	122	89	99

Alphabetical list of patentees—Continued.

Name, residence, and invention.	No.	Date.	Monthly volume.		Official Gazette.	
			Spec.	Drg.	Vol.	Page.
Dyer, Henry W., assignor of one-half to A. A. Brothers, Fincastle, Ind. Anvil attachment	637,241	Nov. 21	1973	422	89	1355
Dyer, Howard E., South Portland, Me. Envelop	619,015	Feb. 7	420	88	86	892
Dyer, James M., San Francisco, Cal. Crushing and grinding mill	635,011	Oct. 17	1891	450	89	409
Dyer, Leonard H. (See Dyer, Frank L and L. H.)						
Dyer, Lucius, Millbridge, Me. Mechanism for soldering can-bodies	635,091	Oct. 17	2062	486	89	444
Dyer, Robert M., assignor to Aermotor Company, Chicago, Ill. Fodder-cutting machine	634,939	Oct. 17	1755	417	89	381
Dyer, William H., Strong, Me. Machine for polishing and rounding toothpicks	635,756	Oct. 31	3336	770 771	89	719
Dyett, Frank J., Newark, N. J. Connecting-rod for type-writers	635,306	Oct. 24	2454	570	89	533
Dyett, Herbert T., Rome, N. Y. Folding metal bed	632,703	Sept. 12	949	220	88	1909
Dyke, Heury H., assignor of one-half to E. Evaus, Butler, Pa. Automatic feed-water regulator	618,265	Jan. 24	2694	596	86	574
Dysart, James H., Alexandria, and P. M. Dysart, Pittsburg, Pa. Acetylene-gas generator	622,943	Apr. 11	1367	314	87	279
Dysart, Paul M. (See Dysart, James H. and P. M.)						
E. Bemeut's Sons. (See Anderson, Anton, assignor.)						
E. Green & Son. (See Taylor, Joseph, assignor.)						
E. H. Stafford Company. (See Field and Prins, assignors.)						
E. & H. T. Anthony & Company. (See Barker, Erastus B., assignor.)						
E. & H. T. Anthony & Company. (See Edgecomb, Edward F., assignor.)						
E. & H. T. Anthony & Company. (See Esmond, William V., assignor.)						
E. & H. T. Anthony & Company. (See Lewis, William H., assignor.)						
E. I. Du Pont de Nemours & Company. (See McGahie, Frederick H., assignor.)						
E. J. Brooks & Company. (See Brooks, Edward J., assignor.)						
E. Keeler Company. (See Burrows, Amos E., assignor.)						
"E Klips" Specialty Company. (See Duffy, Thomas I., assignor.)						
E. P. Gleason Manufacturing Company. (See Gennert, Emil F., assignor.)						
E. & T. Fairbanks & Company. (See Fairbanks, Henry, assiguor.)						
E. & T. Fairbanks & Company. (See Paddock, Harvlin, assignor.)						
E. W. Andrews Incubator Company. (See Andrews, Edwin W., assignor.)						
E. W. Bliss Company. (See Leavitt, Frank M., assignor.)						
E. W. Ross Company. (See Brening, Charles E., assignor.)						
Eaches, Urban E., *et al.* (See Trabue, William, assignor.)						
Eades, Henry A., and W. C. Parsons, Binghamton, N. Y. Fire-escape truck	636,122	Oct. 31	4076	932	89	863
Eagle Manufacturing Company. (See Stokely and Livengood, assignors.)						
Eagle Pencil Company. (See Boman, Claes W., assignor.)						
Eagle Peucil Company. (See Demarest, Dewitt C., assignor.)						
Eagle Pencil Company. (See Fischer, Frederick J. W., assignor.)						
Eagle Pencil Company. (See McIntyre, Frank, assignor.)						
Eagle Pencil Company. (See Oberbeck, George, assignor.)						
Eakle, Henry F., New Hope, Va. Seed-separator	621,602	Mar. 21	1959	438	86	1905
Eales, Arch W. and T. J., Dunkinsville, Ohio. Kitchen-cabinet	622,335	Apr. 4	241	55	87	46
Eales, Thomas J. (See Eales, Arch W. and T. J.)						
Eames, John C., San Francisco, Cal. Tricycle for invalids	627,639	June 27	2679	587	87	2193
Eanes, Louis T., Whatley, Ala. Coffee-roaster	637,097	Nov. 14	1665	361	89	1281
Eareckson, Henry B., New York, N. Y. Nut-lock	625,026	May 16	1964	440	87	1122
Earhart, George F., Lafayette, Oreg. Road grader and ditcher	632,452	Sept. 5	444	100	88	1795
Earl, Barbara F., assignor of one-half to W. H. Rittenhouse, Norristown, Pa. Kitchen utensil	627,806	June 27	2966	649	87	2249
Earl, Edwin T. (See Goehrs, William H., assignor.)						
Earl, Edwin T. and G. C., Oakland, and J. H. Miller, San Francisco, Cal.; said G. C. Earl and said Miller assignors to said Edwin T. Earl. Refrigerator-car	633,820	Sept. 26	3029	704	88	2343
Earl, Guy C. (See Earl and Miller.)						
Earl, Hugh. Jr., assignor to A. E. Bobo, New York, N. Y. Automatically-locking stool or chair	617,324	Jan. 10	880	206	86	190
Earl, William M., assignor to W. H. Wilson, J. B. Beal, Gastonia, and E. L. Wilsou, Dallas, N. C. Sectional grate	621,046	Mar. 14	974	212	86	1702
Earle, Enoch, Worcester, Mass. Compound rest for engine-lathes, &c	637,769	Nov. 28	3315	694	89	1679
Earle, Henry. Canyon, Colo. Ore-concentrator	640,117	Dec. 26	3558	818	89	2623
Earle, Jcan D., Kansas City, Mo. Brace for bedsteads	637,770	Nov. 28	3317	694	89	1679
Earle, Oscar T., Baltimore, Md. Rotary engine	621,555	Mar. 21	1890	419 420 421	86	1891
Earle, Oscar T., Baltimore, Md. Rotary engine	621,556	Mar. 21	1892	421	86	1892
Earle, Oscar T., and C. W. Newton, Baltimore, Md. Sectional steam-generator	621,557	Mar. 21	1893	421 422 423	86	1892
Earle, Oscar T., and C. W. Newton, Baltimore, Md. Water-bottom for steam-boilers	621,558	Mar. 21	1895	423	86	1892
Early, Noah, Jr., Warrensburg, Mo. Gate	634,810	Oct. 10	1532	360	89	321
Earnest, George H., assignor of one-half to N. D. Funk, Springfield, Ohio. Combined match-safe and cigar-cutter	623,206	Apr. 18	1874	429 430	87	393
Easby, Francis H. (See Detrick and Easby.)						
Easley, John C., Van Buren, Ohio. Railway-crossing	618,790	Jan. 31	3646	814 815	86	773
Easom, Frederick. (See Belcher and Easom.)						
Easterly, Harry D. (See Wolke and Easterly.)						
Eastern Expanded Metal Company. (See Sylvester, Louis F., assignor.)						
Eastern Manufacturing Company. (See Ayer, Fred M., assignor.)						
Eastern Paper Bag Company. (See Bilgram, Hugo, assignor.)						
Eastern Paper Bag Company. (See Uhlmann, Richard M., assignor.)						
Eastman, Edgar D., Concord, N. H. Fifth-wheel	618,649	Jan. 31	3408	760	86	726
Eastman, Ernest A. (See Specht, Eugene T., assignor.)						
Eastman, Ernest A., assignor to Chicago Last and Die Company, Chicago, Ill. Machine for hinging lasts	639,542	Dec. 19	2499	576 577	89	2391
Eastman, Frank A., assignor of one-half to W. Harmon, Saco, Me. Saw-guard	617,239	Jan. 3	717	167	86	140
Eastman, Franklin P., New York, N. Y. Dumping-scow	629,554	July 25	2984	697	88	637
Eastman, Henry F., assignor of one-half to M. M. Hobart, Cleveland, Ohio. Frame for motor-vehicles	630,976	Aug. 15	2342	533 534	88	1217
Eastman, Henry M. W. (See Robbins, Victor E., assignor.)						
Eastman Kodak Company. (See Kelley, Frederick H., assignor.)						
Eastman Kodak Company. (See Munsey, Horace W., assignor.)						
Eastman, Neil P., assignor of one-half to J. J. Carlin, Bassett, Nebr. Pipe and rod wrench	618,075	Jan. 24	2328	519	86	507
Eastman, Sylvester, Providence, R. I. Eyeglass-guard	622,671	Apr. 11	897	205	87	190
Easton & Burnham Machine Company. (See Swift, John P., assignor.)						
Easton, Carrie, San Francisco, Cal. Hat-hanger	629,154	July 18	2255	522	88	476

Alphabetical list of patentees—Continued.

Name, residence, and invention.	No.	Date.	Monthly volume. Spec.	Monthly volume. Dr'g.	Official Gazette. Vol.	Official Gazette. Page.
Eastwick, Edward P., Jr., New Orleans, La. Apparatus for crystallizing sugar in motion	638,568	Dec. 5	712	151, 152	89	2002
Eastwood, Benjamin. (See Gartner, Alfred, assignor.)						
Eastwood, Evan H., Newark, N. J. Pocket match box	617,525	Jan. 10	1260	287	86	265
Eatman, Michael A., Itta Bena, Miss. Ventilated umbrella	617,415	Jan. 10	1076	246	86	229
Eatman, Michael A., Itta Bena, Miss. Riding-saddle	633,236	Sept. 19	1964	461	88	2121
Eatman, Michael A., Itta Bena, Miss. Attachment for cattle-cars	637,859	Nov. 28	3498	730	89	1717
Eaton, Arthur W., assignor to A. Seaver, Boston, Mass. Lasting-machine	635,129	Oct. 17	2140	501	89	458
Eaton, Clarence L., Lynn, Mass. Channeling-machine	637,926	Nov. 28	3613	757, 758	89	1741
Eaton, George M., San Francisco, Cal., and C. F. Bailey, Hampton, Va. Ship's ventilator	626,152	May 30	4098	934, 935	87	1570
Eaton, Howard F. (See Neal and Eaton.)						
Eaton, Howard F., Quincy, Mass. Automatic switch for railways, &c	622,133	Mar. 28	2967	671, 672	86	2118
Eaton, James W., trustee. (See Batdorf, Charles S., assignor.)						
Eaton, James W., trustee. (See Hirsch, Feodor C., assignor.)						
Eaton, John. (See Tonkin, John J., assignor.)						
Eaton, Joseph S., assignor to Mason Machine Works, Taunton, Mass. Doffer-driving mechanism for carding-engines	623,950	Apr. 25	3240	746	87	678
Eaton, Matthias B., Boston, Mass., assignor to J. C. Cameron, Montreal, Canada. Track-clearer	625,438	May 23	2706	616	87	1287
Eaton, Russell W., Brunswick, Me., assignor to Mason Machine Works, Taunton, Mass. Carding-engine	640,159	Dec. 26	3626	833	89	2637
Eaton-Shore, James. (See Jones and Eaton-Shore.)						
Eaton, Wilfred L. (See Crosby, Hartwell A., assignor.)						
Eaton, William L., New York, N. Y. Insecticide	626,890	June 13	1283	------	87	1880
Eaton, Willie G., Nashua, N. H., assignor to Draper Company, Portland, Me., and Hopedale, Mass. Device for removing waste yarn from filling-carriers	619,682	Feb. 14	1613	368	86	1143
Eaton, Willie G., Nashua, N. H., assignor to Draper Company, Portland, Me., and Hopedale, Mass. Loom	623,951	Apr. 25	3243	747	87	679
Eaton, Willie G., Nashua, N. H., assignor to Draper Company, Portland, Me., and Hopedale, Mass. Loom	624,197	May 2	459	67	87	788
Eaton, Willie G., Nashua, N. H., assignor to Draper Company, Portland, Me., and Hopedale, Mass. Weft-fork mechanism for looms	624,765	May 9	1492	339	87	1013
Eaton, Willie G., Nashua, N. H., assignor to Draper Company, Portland, Me., and Hopedale, Mass. Loom	639,158	Dec. 12	1766	408	89	2231
Eba, Bernhardt, North Warren, Pa. Bone-black kiln	638,177	Nov. 28	4107	866, 867	89	1837
Eberhard, Christian F., Cleveland, Ohio. Ball-bearing	633,990	Oct. 3	16	4	89	6
Eberhard, Gustav, New York, N. Y. Pressure-filter	626,991	June 13	1450	318, 319	87	1914
Eberhard, Joseph, New York, N. Y. Die-plate for embossing-machines	630,672	Aug. 8	1802	406	88	1086
Eberhardt, Fred L. (See Eberhardt, Ulrich, H. E., and F. L.)						
Eberhardt, Henry E. (See Eberhardt, Ulrich, H. E., and F. L.)						
Eberhardt, Ulrich, Newark, N. J. Grinding-wheel	622,886	Apr. 11	1275	294	87	260
Eberhardt, Ulrich, Newark, N. J. Power-riddle for foundries	626,019	May 30	3814	867	87	1520
Eberhardt, Ulrich, H. E., and F. L., Newark, N. J. Gear-cutter clamp for wheel-blanks	617,723	Jan. 17	1638	368, 369	86	358
Eberhardt, William C. (See Petersen and Eberhardt.)						
Eberhart, Frank, New York, N. Y. Baker's oven	626,992	June 13	1452	319	87	1914
Ebert, A. G., *et al.* (See Baumann, John D., assignor.)						
Ebert, Harry, Frederick, Md. Ash-sifter	621,559	Mar. 21	1896	423	86	1893
Ebert, Hugo E., and H. G. Seefeld, Milwaukee, Wis. Necktie attachment	631,499	Aug. 22	3295	749	88	1423
Ebert, M. J., *et al.* (See Baumann, John D., assignor.)						
Ebert, William T., Pittsburg, Pa. Trap	622,944	Apr. 11	1368	314	87	279
Eberwein, Paul, Jackson, Mich. Dust-collector	633,954	Sept. 26	3261	761, 762	88	2389
Ebken, John G., assignor of one-half to P. H. Lind and H. C. Hachmeister, Pittsburg, Pa. Carriage-brake	619,683	Feb. 14	1615	369	86	1143
Eby, John D. (See Kenfield, Stephen B., assignor.)						
Ecaubert, Frederic, New York, N. Y. Back-pedaling brake	618,650	Jan. 31	3409	760, 761	86	726
Ecaubert, Frederic, New York, N. Y. Hydraulic holder for rotating dies	618,651	Jan. 31	3413	761	86	727
Eccles Rubber and Cycle Company. (See Cox, William H., assignor.)						
Echols, Frank G., Hartford, Conn. Metal-cutting tool and making same	631,158	Aug. 15	2665	602, 603	88	1280
Echols, Frank G., Hartford, Conn. Machine for cold-rolling	631,159	Aug. 15	2667	603	88	1280
Echols, Frank G., assignor to Pratt & Whitney Company, Hartford, Conn. Metal-working machine	627,299	June 20	1991	438, 439	87	2040
Eclipse Package Handle Company. (See Gildemeyer, Charles A., assignor.)						
Eck, Charles A., Newark, N. J. Frame or yoke for dynamo-electric machines	627,488	June 27	2374	523	87	2132
Eck, Charles A., Newark, N. J. Dynamo-electric machine	633,641	Sept. 26	2728	635	88	2281
Eck, Frank O. (See Lungren, Alfred, assignor.)						
Eck, John J., New York, N. Y. Broom-head	624,310	May 2	678	149	87	830
Eck, John J., New York, N. Y. Combined sprinkler and dirt-wagon	640,118	Dec. 26.	3560	818	89	2624
Eckardt, Ernst M., Dresden, Germany. Vessel for transport and means for conservation of effervescing beverages therein	635,678	Oct. 24	3176	731	89	674
Eckenroth, Philip, Philadelphia, Pa. Stop mechanism for engines	624,311	May 2	679	149	87	830
Eckenroth, Philip, Philadelphia, Pa. Stop mechanism for engines	624,312	May 2	681	150	87	831
Ecker, Carl. (See Kuhlo and Ecker.)						
Ecker, Morris, assignor of one-half to L. Stern, New York, N. Y. Attachment for window-shades	624,766	May 9	1495	339	87	1014
Ecker, Morris, assignor of one-half to L. Stern, New York, N. Y. Measuring device	624,767	May 9	1496	340	87	1014
Eckman, John W. (See Hise and Eckman.)						
Economic Smokeless Powder Company. (See Halsey, Francis A., assignor.)						
Economy Gas Lamp Company. (See Williams, John F., assignor.)						
Economy Machine Company. (See Johnson, Albert E., assignor.)						
Economy Packing Machine Company. (See Bohls, Henry, assignor.)						
Edds, John F. (See Hewitt and Edds.)						
Eddy Electric Manufacturing Company. (See Corson, William R. C., assignor.)						
Eddy, Frank P., Eunice, Mo. Vehicle-brake	630,871	Aug. 15	2135	484	88	1177
Eddy, George W. (See Goss and Eddy.)						
Eddy, George W., assignor to Scovill Manufacturing Company, Waterbury, Conn. Clamp for bicycle-bells	617,240	Jan. 3	718	167	86	141
Eddy, George W., assignor to Scovill Manufacturing Company, Waterbury, Conn. Bicycle-bell	625,655	May 23	3073	700	87	1360

Alphabetical list of patentees—Continued.

Name, residence, and invention.	No.	Date.	Monthly volume. Spec.	Monthly volume. Dr'g.	Official Gazette. Vol.	Official Gazette. Page.
Eddy, George W., assignor to Scovill Manufacturing Company, Waterbury, Conn. Globe-holder for electric lamps	636,505	Nov. 7	472	105	89	1016
Eddy, John M. (See Wood and Eddy.)						
Eddy, Walton A., Randolph, N. Y. Sand-band	635,467	Oct. 24	2808	641	89	604
Edel, George, New Orleans, La. File for holding loose papers	623,466	Apr. 18	2335	535	87	488
Edel, George, New Orleans, La. File for holding loose papers	623,467	Apr. 18	2336	536	87	488
Edel, Lucas, St. Louis, Mo. Range	629,782	Aug. 1	40	10,11	88	728
Eder, James M., New York, N. Y. Combined smoking-tube and cigar-holder	624,768	May 9	1498	340	87	1014
Eder, James M., New York, N. Y. Smoking-tube	635,240	Oct. 17	2327	543	89	493
Eder, Reinhold, Berlin, Germany. Sewing-machine	623,534	Apr. 25	2465	567, 568	87	531
Edey, Charles E. C., assignor of one-half to A. Keusink, Tacoma, Wash. Automatic car-coupling	635,757	Oct. 31	3337	772	89	719
Edgar, Cornelia F., Scranton, Pa. Producing models for dressmakers, tailors, &c	631,205	Aug. 15	2741	621	88	1296
Edgar, Lucien B., assignor of two-thirds to D. H. Jenkins and W. H. Tuttle, Colorado Springs, Colo. Seal-lock	625,027	May 16	1965	440	87	1122
Edgar Manufacturing Co. (See Keefe, Manus D., assignor.)						
Edgar, Silas D., assignor of three-fourths to P. E. Wirt, Bloomsburg, Pa. Fish-hook	620,896	Mar. 14	668	145	86	1646
Edgar, William K, Colorado Springs, Colo. Seal-lock	637,860	Nov. 28	3500	731	89	1717
Edgarton, Charles F., assignor to C. A. Edgarton Manufacturing Company, Shirley, Mass. Suspender-end	617,085	Jan. 3	429	104	86	83
Edge, James, Gorton, England. Flat-stripping motion for carding-engines	618,402	Jan. 31	2968	658	86	642
Edgecomb, Edward F., New Haven, Conn., assignor, by mesne assignments, to E. & H. T. Anthony & Company, New York, N. Y. Photographic camera	638,102	Nov. 28	3960	833	89	1806
Edgecomb, Edward F, New Haven, Conn., assignor, by mesne assignments, to E. & H. T. Anthony & Company, New York, N. Y. Photographic shutter	638,103	Nov. 28	3964	834	89	1807
Edgerton, Herbert O., *et al.* (See Gregg, James W., assignor.)						
Edgington, William M., Rookside, Ill. Nut-lock	618,403	Jan. 31	2970	658	86	643
Edison, Thomas A., Llewellyn Park, N. J. Phonograph	622,843	Apr. 11	1195	278	87	246
Edison, Thomas A., Llewellyn Park, N. J. Filament for incandescent lamps and manufacturing same	626,460	June 6	449	------	87	1701
Edison, Thomas A., Llewellyn Park, N. J. Rolls	637,327	Nov. 21	2138	460, 461	89	1388
Edler, William C., and F. Windle, Philadelphia, Pa. Loom	636,773	Nov. 14	1047	224	89	1160
Edmands, Charles H., Saugus, Mass. Ice-cutting machine	622,797	Apr. 11	1101	255	87	228
Edmeades, Robert, London, England. Adjustable bracket	624,001	May 2	86	18	87	719
Edmiston, Samuel J, Greenwich, N. Y. Shade-roller	635,070	Oct. 17	2001	473	89	431
Edmonds, Edward A. (See Witham, George S., assignor.)						
Edmondson, Joseph, and J. W. Dawson, Bradford, England. Apparatus for starting internal-combustion engines	631,206	Aug. 15	2743	621	88	1296
Edmunds, Howard L. (See Farnell, George T., assignor.)						
Edmunds, John, assignor to A. M Goodale, Waltham, Mass. Cloth-doubling machine	618,379	Jan. 24	2895	641, 642	86	612
Edson, William, Boston, assignor to A. G. Smalley, Chelsea, Mass. Shaker attachment for tumblers, &c	628,904	July 11	1797	418	88	370
Edward Miller & Company. (See Homan, William C., assignor.)						
Edward Miller & Company. (See Maschmeyer, Charles, assignor.)						
Edward P. Allis Company. (See Farr, Freeman S., assignor.)						
Edward P. Allis Company. (See Fitzgerald, Edward E., assignor.						
Edward P. Allis Company (See Holthoff, Henry C., assignor.)						
Edward P. Allis Company. (See Mather, Allan G., assignor.)						
Edwardes, Frederick A., London, England. Apparatus for use in treating metallic ores	624,633	May 9	1261	281, 282	87	967
Edwards, Ansel D., Cleveland, Ohio. Baking and cooking vessel	618,499	Jan. 31	3143	694	86	674
Edwards, Charles, New York, N. Y. Game apparatus	617,928	Jan. 17	2049	459	86	440
Edwards, Charles G., and C. E. Phelps, Jr., Baltimore, Md. Vault for subterranean conduits	638,803	Dec. 12	1161	259	89	2113
Edwards, F. H. (See Cruttwell, Arthur C., assignor.)						
Edwards, Francis M., Greigsville, N. Y. Mail-crane	634,405	Oct. 3	822	199	89	164
Edwards, Frederick, London, England. Pump	635,531	Oct. 24	2911	665	89	623
Edwards, Guy, New York, N. Y. Fire-extinguishing compound	623,657	Apr. 25	2682	------	87	570
Edwards, Guy, New York, N. Y. Fire-extinguishing compound	639,674	Dec. 19	2745	------	89	2441
Edwards, Henry B, *et al.* (See Waterfield, John, assignor.)						
Edwards, Isaac L., Aurora, Ill. Spike	630,673	Aug. 8	1803	406	88	1087
Edwards, John, Homestead, Pa. Game	631,110	Aug. 15	2584	584	88	1264
Edwards, John C., Brookline, Mass., assignor to Draper Company, Portland, Me., and Hopedale, Mass. Warp stop-motion for looms	625,157	May 16	2198	499	87	1164
Edwards, John C., Brookline, Mass., assignor to Draper Company, Portland, Me., and Hopedale, Mass. Warp-stop-motion mechanism	630,200	Aug. 1	871	188	88	894
Edwards, Joseph, New York, N. Y. Centrifugal pump	619,736	Feb. 21	1738	396	86	1192
Edwards, Joseph, New York, N. Y. Dumping-door for dredging vessels	619,737	Feb. 21	1739	397	86	1192
Edwards, Joseph New York, N. Y. Swivel-drawbridge	625,097	May 16	2105	478	87	1147
Edwards, Joseph, New York, N. Y. Dumping-scow	625,327	May 23	2518	572	87	1251
Edwards, Joseph New York, N. Y. Dredging vessel	636,774	Nov. 14	1049	225	89	1161
Edwards, Joseph, New York, N. Y. Dredging apparatus	636,775	Nov. 14	1052	225	89	1161
Edwards, Mattie J., Los Angeles, Cal. Thread-box	624,313	May 2	684	150	87	831
Edwards, Milo N., Glenwood Springs, Colo. Turn-table	624,769	May 9	1498	340	87	1014
Edwards, Milo N., Glenwood Springs, Colo. Packing-box	628,778	July 11	1568	362	88	326
Edwards, Robert. (See Lungen, Adam, assignor)						
Edwards, Robert L., Itta Bena, Miss. Broom holder or rack	634,883	Oct. 17	1673	394	89	365
Edwards, Sherwood E., Danville, Va. Mechanical toy	631,626	Aug. 22	3525	794	88	1469
Edwards, Thomas, Holyoke, Mass. Ventilator	638,503	Dec. 5	606	125	89	1982
Edwards, Victor E., Worcester, Mass Furnace for heating ingots or billets	627,721	June 27	2816	617	87	2219
Edwards, Victor E., assignor to Morgan Construction Company, Worcester, Mass. Wire-reel	627,722	June 27	2817	617	87	2219
Edwards, Victor E, assignor to Morgan Construction Company, Worcester, Mass. Apparatus for handling wire rods	627,723	June 27	2818	617, 618	87	2220
Edwards, Victor E., and P B. Morgan, assignors to Morgan Construction Company, Worcester, Mass. Apparatus for handling metal bars	628,528	July 11	1093	255	88	230
Edwards, William H., Rockford, Ill. Adjustable nut-cracker	627,401	June 20	2221	490	87	2085
Edwards, William J., and T. J. Gray, assignors to F. C. Austin, Chicago, Ill Ditching machine	636,506	Nov. 7	474	106, 107, 108	89	1016
Edwards, William R. (See Trainer, James, assignor.)						
Edwards, William R, and S. F Beevor, London, England. Switch for altering speed and direction of revolution of electric motors, &c	621,471	Mar. 21	1729	386	86	1861

Alphabetical list of patentees—Continued.

Name, residence, and invention.	No.	Date.	Monthly volume. Spec.	Monthly volume. Drg.	Official Gazette. Vol.	Official Gazette. Page.
Edwardy, Frederick W., Atlanta, Ga. Toy and advertising apparatus	633,821	Sept. 26	3031	704	88	2343
Effront, Jean, Brussels, Belgium. Fermentation of materials which bave been rendered aseptic	620,022	Feb. 21	2252		86	1291
Efros, Charles, Fanwood, N. J., assignor to Charles Efros Company, of New Jersey. Refrigerator-tank car	625,439	May 23	2707	616 617	87	1287
Egan, Charles E., B. L. Lawton, and E. C. Wilcox, Meriden, Conn. Telepbone system	621,449	Mar. 21	1683	374	86	1852
Egan, James J., and A. E. Hook, Butte, Mont. Disappearing chair	619.153	Feb. 7	683	146 147	86	945
Egan, James J., and A. E. Hook, Butte, Mont. Disappearing chair	619.154	Feb. 7	687	147	86	946
Egan, Patrick W. (See King and Egan.)						
Egan, William J., Milwaukee, Wis. Carbureter	625,294	May 16	2443	536	87	1210
Egbert, Charles C., Dunkirk, N. Y. Slide-valve	635,092	Oct. 17	2064	486 487	89	444
Egbert, John, West New York, N. J., assignor of one-tbird to C. Mangels, New York, N. Y. Device for bolding towels	633,237	Sept. 19	1965	461	88	2121
Ege, Alexander H. (See Richardson, John T., assignor.)						
Ege, Ralph, Hopewell, N. J. Device for hoisting and unloading wagon-bodies	630,872	Aug. 15	3136	484 485	88	1177
Eggemann, Karl, Kleinlaufenburg, Germany. Macbine for examining umbrella stuffs	629,104	July 18	2165	503	88	460
Egger, Edward L. (See Weldon and Egger.)						
Eggers, Anton C., assignor to Goodyear's India Rubber Glove Manufacturing Company. New York, N. Y. Atomizer	639,024	Dec. 12	1546	355	89	2187
Eggert, Ernest, St. Louis, Mo. Eyeglass-guard	617,676	Jan. 10	1537	349	86	319
Eggleston, Pursell, Newark, N. J. Means for generating electricity from car wbeel axles	636,776	Nov. 14	1055	226	89	1162
Eggleston, Richard I., Philadelphia, Pa., and F. Oliver, Cbarlotte, N. C. Mattress-stuffing machine	630,201	Aug. 1	873	188	88	895
Eglin, William C. L. (See Macrae, Roderick, assignor.)						
Egner, Frederick, Norfolk, Va. Apparatus for manufacturing gas	617,646	Jan. 10	1491	340	86	310
Egry Autographic Register Company. (See Egry and Schirmer, assignors.)						
Egry, William L., and T. F. Schirmer, assignors to Egry Autographic Register Company, Dayton, Ohio. Autographic register	630,601	Aug. 8	1676	377	88	1063
Ehbets, Carl J., Hartford, Conn. Vehicle-brake	637,771	Nov. 28	3318	694	89	1679
Ehler, Edward. (See Crosby and Ehler.)						
Ehling, Carl, Bremen, Germany. Handle-bar for cycles	617,500	Jan. 10	1210	275	86	255
Ehmen, Johann J., Chattan, Ill. Hog-trap	629,243	July 18	2397	555	88	501
Ehmsen, William H. (See Coleman and Ehmsen.)						
Ehrenberg, Alexander, assignor to Firm of E. Merck, Darmstadt, Germany. Making alkyl ethers of morphin	629,433	July 25	2751		88	593
Ehrenberg, Gottlieb, Brunswick, Germany. Shed for housing bicycles	636,324	Nov. 7	164	36	89	954
Ehrhardt, Georg A. W., Neumünster, Germany. Machine for threading piles of paper	628,885	July 11	1753	410	88	361
Ehrhardt, Heinrich, Dusseldorf, Germany. Manufacture of wrought-iron or steel spoke-wheels, &c	628,080	July 4	222	51	88	45
Ehrhardt, Robert, Augsburg, Germany. Antiseptic soap	618,248	Jan. 24	2662		86	568
Ehrlich, Leo, St. Louis, Mo., assignor to Carter-Crume Company, of West Virginia. Autographic register	622,454	Apr. 4	454	106	87	85
Ehrman, Edwin H., assignor to Walker & Ehrman Manufacturing Company, Chicago, Ill. Seat-post clamp	619,469	Feb. 14	1235	282	86	1070
Ehrman, George W., Maltby, Wash. Watering-trough	637,242	Nov. 21	1975	422	89	1355
Ehrsam & Sons, J. B. (See Ehrsam, William J., assignor.)						
Ehrsam, William J., assignor to J. B. Ehrsam & Sons, Enterprise, Kans. Water-tube boiler	620,897	Mar. 14	669	146	86	1646
Eibee, Carl, New York, N. Y. Leak-stopper for pipes	624,770	May 9	1500	340	87	1015
Eibig, Paul, assignor to E. Bergmann, Berlin, Germany. Electric meter	634,811	Oct. 10	1534	361	89	321
Eichberg, William N. (See Faust and Eichberg.)						
Eicbengrün, Arthur, Elberfeld, Germany, assignor to Farbenfabriken of Elberfeld Company, of New York. Pharmaceutical compound and making same	622,455	Apr. 4	457		87	85
Eichengrün, Arthur, Elberfeld, Germany, assignor to Farbenfabriken of Elberfeld Company, of New York. Pharmaceutical compound and making same	626,413	June 6	370		87	1685
Eichert, John, Pittsburg, Pa. Stamp-cutter and canceling machine	627,331	June 20	2061	454	87	2055
Eichholtz, Elius F., Conway, assignor of one-third to O. Ball, McMurray, Wash. Insecticide	626.153	May 30	4101		87	1570
Eichholz, Max, Chicago, Ill. Change-tray	622,999	Apr 11	1465	338	87	298
Eichler, Herman, New York, N. Y. Pencil-sharpener	631,930	Aug. 29	4070	913	88	1584
Eicbler, Moritz, Carthage, Ohio. Step-ladder	636,507	Nov. 7	484	108	89	1019
Eicholtz, Jacob G., Ida Grove, Iowa. Harness-machine	630,335	Aug. 8	1137	249 250	88	962
Eichwede, Heinrich. (See Krausse, Bruno, assignor.)						
Eicke, Carl A., Bremerhaven, Germany. Coffer-dam for screw-propellers	624,198	May 2	462	97	87	788
Eickemeyer, Carl, Yonkers, N. Y. Electric pump	618,404	Jan. 31	2971	658 659 660	86	643
Eickershoff, John H., Cincinnati, Ohio. Game-board	636,508	Nov. 7	486	108	89	1020
Eickhoff, Gottfried, and P. E. T. Juhl, Copenhagen, Denmark. Machine for printing cylindrical objects	624.771	May 9	1501	341	87	1015
Eickmann, Christian, Indianapolis, Ind. Spring appliance for shafts	620,898	Mar. 14	671	146	86	1647
Eickmann, Christian, and H. H. Fay, Indianapolis, Ind. Tubular tire for wheels	634,725	Oct. 10	1401	330	89	296
Eifler, William J., Paterson, N. J. Luggage-carrier	627,235	June 20	1858	407	87	2013
Eigen, Benno vom, assignor to A. Goertz & Co., Newark, N. J. Purse or bag frame	625,028	May 16	1967	440	87	1122
Eighmy, Clarence A., assignor to Erie Safety Window Company, Erie, Pa. Window frame and sash	620,023	Feb. 21	2254	511	86	1291
Eilers, Hio P., Cleveland, Ohio. Bolt-threading machine	637,772	Nov. 28	3321	695	89	1679
Einbigler, Rudolf, New York, N. Y. Stock-quotation indicator	627,402	June 20	2223	490	87	2085
Einbigle Rudolf, New York, N. Y. Visual-signal apparatus	632,106	Aug 29	4407	989 990	88	1651
Einfeldt, Emil, Davenport, Iowa, assignor to Bettendorf Metal Wheel Company, of Iowa. Riveting-machine	628,081	July 4	223	52	88	45
Einfeldt, Emil, Davenport, Iowa, assignor to Bettendorf Metal Wheel Company, of Iowa. Bending-machine	635,433	Oct. 24	2743	628	89	589
Einhorn, Alfred, Munich, assignor to Farbwerke, vormals Meister, Lucius & Brüning, Höchst-on-the-Main, Germany Glycocol ester and making same	619.549	Feb. 14	1369		86	1097
Einhorn, Alfred, Munich, assignor to Farbwerke, vormals Meister, Lucius & Brüning, Höchst-on-the-Main, Germany. Glycocol-phenol ester and making same	624,772	May 9	1505		87	1016
Einhorn, Alfred, Munich, assignor to Farbwerke, vormals Meister, Lucius & Brüning, Höchst-on-the-Main, Germany. Esters of para-oxy-meta-amidobenzoic acid and making same	625,158	May 16	2200		87	1165

Alphabetical list of patentees—Continued.

Name, residence, and invention.	No.	Date.	Monthly volume. Spec.	Monthly volume. Dr'g.	Official Gazette. Vol.	Official Gazette. Page.
Einhorn, Alfred, Munich, assignor to Farbwerke, vormals Meister, Lucius & Brüning, Höchst-on-the-Main, Germany. Glycocolamidocinnamic-acid ester and making same	625,159	May 16	2201	------	87	1165
Eisele, Othmar, Vienna, Austria-Hungary. Mold and mold apparatus	628,578	July 11	1187	277	88	249
Eiselstein, Jacob, Egg Harbor City, N. J. Manufacturing and finishing parchment-paper	621,603	Mar. 21	1961	------	86	1906
Eiseman, Max, *et al.* (See Krause, Hugo C., assignor.)						
Eiseman, Nathan, *et al.* (See Krause, Hugo C., assignor.)						
Eisengart, Edmund C. (See Kuhlewind and Eisengart.)						
Eisenhuth, Ella V. (See Eisenhuth, John W., assignor.)						
Eisenhuth, Ella V., *et al.* (See Read, Mamie G., assignor.)						
Eisenhuth, John W., *et al.* (See Read, Mamie G., assignor.)						
Eisenhuth, John W., New York, N. Y. Vehicle-lamp	620,110	Feb. 28	2415	546	86	1335
Eisenhuth, John W., New York, N. Y. Bicycle and gearing therefor	627,990	July 4	59	11	88	13
Eisenhuth, John W., New York, N. Y. Cross-head for engines and guide therefor	636,647	Nov. 7	752	164	89	1074
Eisenhuth, John W., New York, N. Y. Wheel	636,900	Nov. 14	1278	275	89	1207
Eisenhuth, John W., New York, N. Y. Wheel	639,543	Dec. 19	2502	577	89	2392
Eisenhuth, John W., assignor to E. V. Eisenhuth, New York, N. Y. Changeable-speed gearing	617,647	Jan. 10	1493	341	86	310
Eisenhuth, John W., assignor to E. V. Eisenhuth, New York, N. Y. Explosive-engine for vehicles	620,431	Feb. 28	2961	678, 679, 730	86	1439
Eisenhuth, John W., assignor to E. V. Eisenhuth, New York, N. Y. Air and gas engine	620,554	Feb. 28	3190	731, 732	86	1484
Eisenhuth, John W., assignor to E. V. Eisenhuth, New York, N. Y. Running-gear for motor-vehicles	631,627	Aug. 22	3528	795	88	1470
Eke, Robert J., London, England. Machinery for decorticating vegetable fibers	633,507	Sept. 19	2451	577, 578	88	2215
Ekenberg, Martin, Stockholm, Sweden. Solidified petroleum and producing same	620,899	Mar. 14	672	------	86	1647
Ekerdt, Eduard, Biberach, Germany. Jaw for face-plates or chucks for turning-lathes	630,202	Aug. 1	875	189	88	895
Ekstrand, Karl H. Galesburg, Ill. Holder for preserving-jars	627,489	June 27	2375	523	87	2132
Ekstromer, Edouard C. (See Aspinall and Ekstromer.)						
Elb, Max, Dresden, Germany. Smoothing or pressing box-iron	618,933	Feb. 7	229	51	86	848
Elb, Max, Dresden, Germany. Disinfecting appliance	636,027	Oct. 31	3862	887	89	821
Elbel, Karl, and J. Oppermann, assignors to Kalle & Co., Biebrich, Germany. Black tris-azo dye	620,574	Mar. 7	37	------	86	1509
Elbers, Alexander D., Hoboken, N. J. Treating blast-furnace slag for cement	617,241	Jan. 3	719	------	86	141
Elbers, Alexander D., Hoboken, N. J. Manufacturing mineral wool	623,398	Apr. 18	2219	------	87	463
Elbers, Alexander D., Hoboken, N. J. Product from blast-furnace slag	625,656	May 23	3075	------	87	1360
Elder, John, assignor of one-half to A. V. Bryan, New York, N. Y. Sewer-trap	624,773	May 9	1506	342	87	1016
Elder, Joseph M., and O. W. Dunlap, Bloomington, Ill. Screening-machine	625,295	May 16	2448	556	87	1211
Elder, William C. (See Moore and Elder.)						
Eldora Spring Manufacturing Company. (See Watkins, Orla H., assignor.)						
Eldredge, Thomas C. (See Atwater and Eldredge.)						
Eldredge, William H., Leon, N. Y. Acetylene-gas generator	631,207	Aug. 15	2745	621, 622	88	1297
Eldridge, Francies E. (See Bruns and Eldridge.)						
Eldridge, Hilliary, Galveston, Tex. Acetylene-gas-generating lamp	638,221	Dec. 5	22	7	89	1871
Eldridge, Hilliary, and S. Blum, Galveston, Tex. Acetylene-gas generator	628,929	July 18	1845	429	88	396
Eldridge, Hilliary, D. J. Clark, and S. Blum, Galveston, Tex. Method of and apparatus for manufacturing gas	625,251	May 16	2364	537	87	1196
Eldridge, Hilliary, D. J. Clark, and S. Blum, Galveston, Tex. Electrical furnace	625,252	May 16	2369	538	87	1197
Electric Car Company of America. (See Hunter, Rudolph M., assignor.)						
Electric Controller and Supply Co. (See Adams and McGeorge, assignors.)						
Electric Gas Light Company (See Pearre, Frank C., assignor.)						
Electric Gas Lighting Company. (See Thomson, Henry C., assignor.)						
Electric Power Development Company. (See Ashley, Ralph, assignor.)						
Electric Power Development Company. (See Kennedy, Charles W., assignor.)						
Electric Power Development Company. (See Lloyd, Herbert S., assignor.)						
Electric Power Development Company. (See Pocock, Francis A., assignor.)						
Electric Scale Company. (See Watson, George W., assignor.)						
Electric Selector and Signal Company. (See Duppler, Anton, assignor.)						
Electric Stone Cleaning and Renovating Company. (See Freeman, Warren P., assignor.)						
Electric Stone Cleaning and Renovating Company. (See Thomas, Eddy T., assignor.)						
Electric Storage Battery Company. (See Entz, Justus B., assignor.)						
Electric Storage Battery Company. (See Hewitt, Charles, assignor.)						
Electric Third Rail and Signal Company. (See Seaton, Benjamin C., assignor.)						
Electric Vehicle Company. (See Condict, George H., assignor.)						
Electric Wheel Company. (See Yost, Solomon C., assignor.)						
Electrical Copper Company. (See Perreur-Lloyd, Marcel, assignor.)						
Electrical Safety Company. (See Cartwright, David J., assignor.)						
Electrical Undertakings. (See Leitner, Henry, assignor.)						
Electricitäts-Gesellschaft Triberg. (See Schneider, Friedrich W., assignor.)						
Electricitäts-Gesellschaft Triberg, Gesellschaft mit Beschränkter Haftung. (See Schneider, Friedrich W., assignor.)						
Electro Gas Company. (See Böhm, Ludwig K., assignor.)						
Electro Lamp Company. (See Iden, Charles W., assignor.)						
Electro Lamp Company. (See Moreau, Eugène, assignor.)						
Electro-Magnetic Traction Company. (See Aspinwall, Louis M., assignor.)						
Electus Glove Button Shoe Company. (See Bachman, Charles, assignor.)						
Elevator Supply and Repair Company. (See Andrews, Fred, assignor.)						
Elevator Supply and Repair Company. (See Collett, Samuel D., assignor.)						
Elevator Supply and Repair Company. (See Smalley and Reiners, assignors.)						
Eley, Philip, Bayonne, N. J. Fire and street service hydrant	617,086	Jan. 3	430	104	86	83
Elgen, Magnus P., St. Paul, Minn., assignor of part to J. J. Moe, C. Rehnstrand, C. Berg, West Superior, Wis., M. Smith, and A. Johnson. Rotary engine	617,724	Jan. 17	1643	369	86	359
Elgin, James C. (See Schoknecht and Elgin.)						
Elguera, Manuel, Washington, D. C. Apparatus for cleaning ships' bottoms	621,047	Mar. 14	976	212	86	1702
Elieson, Chaimsonovitz P., London, England. Electric storage-cell	621,048	Mar. 14	978	213	86	1702
Elkhart Iron Works Company. (See Doty, Charles H., assignor.)						
Elkhart Iron Works Company. (See Frankford, David, assignor.)						
Elkins, George T., Raus, Tenn. Tail-holder for horses	626,600	June 6	683	158	87	1747
Ellam, Frederick, London, England. Apparatus for stencil-printing on cards	625,876	May 30	3514	798	87	1462
Ellershausen, Francis, London, England. Treating refractory sulfid ores	635,093	Oct. 17	2067	------	89	445
Elleser, John C., assignor to W. H. Elleser, Park Ridge, M. J. Ellison and L. Roberts, New York, N. Y. Stem material for artificial flowers	637,719	Nov. 21	3224	671	89	1642
Elleser, Walter H., *et al.* (See Elleser, John C., assignor.)						
Ellicott, Edward, assignor to Western Electric Company, Chicago, Ill. Cut-out	620,111	Feb. 28	2416	546	86	1336

Alphabetical list of patentees—Continued.

Name, residence, and invention.	No.	Date.	Monthly volume.		Official Gazette.	
			Spec.	Dr'g.	Vol.	Page.
Ellicott, Edward B., and L. E. Oehring, assignors to Western Electric Company, Chicago, Ill. Telegraph-register	632,046	Aug. 29	4290	964	88	1627
Ellin, Robert, Yonkers, N. Y. Crushing or grinding mill	624,774	May 9	1507	342, 343	87	1016
Ellingson, Andrew I., Austin, Minn., assignor of one-half to J. H. Brown, Cedar Rapids, Iowa. Car-coupling	631,067	Aug. 15	2507	567	88	1250
Ellington, George W., *et al.* (See Turner, Joseph P., assignor.)						
Ellington, John E. (See Rausheck, John E., assignor.)						
Ellingwood, Charles H., Tidioute, Pa. Machine for cutting and tenoning stock	633,185	Sept. 19	1853	436, 437	88	2098
Ellingwood, Francis L., New York, N. Y., assignor of three-fifths to C. W. Schumann, Jr., Orange, N. J. Safety appliance	623,078	Apr. 11	1599	368, 369	87	326
Ellingwood, Francis L., New York, N. Y., assignor of three-fifths to C. W. Schumann, Jr., Orange, N. J. Resistance device	623,079	Apr. 11	1602	369	87	326
Ellingwood, Francis L., New York, N. Y., assignor of three-fifths to C. W. Schumann, Jr., Orange, N. J. Safety appliance and device for operating same	623,080	Apr. 11	1605	369, 370	87	327
Elliot, Henry, St. Louis, Mo. Railway-crossing	632,992	Sept. 12	1471	342	88	2012
Elliot, John P., Martinez, Cal. Cartridge	625,440	May 23	2708	617	87	1287
Elliot, Mary F. (See Ward, David R., assignor.)						
Elliott, Arthur E., Modesto, Cal. Vehicle-wheel	623,240	Apr. 18	1930	442	87	404
Elliott, Charles E. (See Briggs and Elliott.)						
Elliott, Chester, Fair Haven, Ohio. Gate	631,780	Aug. 29	3825	852	88	1536
Elliott, Doras E. (See Suprunowski, Joseph N., assignor.)						
Elliott, Gilbert R., Boston, Mass. Steam thawing apparatus	620,112	Feb. 28	2417	546	86	1336
Elliott, Hanson B., Charlevoix, and F. Alberts, Muskegon, Mich. Syringe for spraying plants, &c	631,704	Aug. 22	3656	824	88	1496
Elliott & Hatch Book Typewriter Company. (See Anderson, George S., assignor.)						
Elliott & Hatch Book Typewriter Company. (See Hatch and Hillard, assignors.)						
Elliott, James A., assignor to W. S. Brock, Anderson, and J. W. Brock, Honea Path, S. C. Combined harrow and cultivator	631,521	Aug. 22	3332	757	88	1431
Elliott, John A., Butte, Mont. Electrical hot-air heater	628,702	July 11	1437	334	88	299
Elliott, Lorenzo D., Pierport, assignor of two-thirds to G. E. Coleman and G. E. Simmons, South Frankfort, Mich. Tree-smoking apparatus	620,842	Mar. 7	572	124	86	1614
Elliott, Lu.ius J., *et al.* (See Shedd, Hugh E., assignor.)						
Elliott, Philip S., Lawrence, Kans. Fastener	635,758	Oct. 31	3339	772	89	719
Elliott, Richard C., Manchester, England, assignor to Mergenthaler Linotype Company, New York, N. Y. Magazine for linotype or analogous machines	635,998	Oct. 31	3811	877	89	812
Elliott, Richard C., Broadheath, England, assignor to Mergenthaler Linotype Company, New York, N. Y. Composing-machine	640,119	Dec. 26	3562	819	89	2624
Elliott, Robert H., Birmingham, Ala. Railway-crossing	620,758	Mar. 7	416	85, 86	86	1582
Elliott, Sterling, assignor to G. H. Williams, Newton, F. W. Whitcher, Boston, Mass., and H. C. Noble, New Britain, Conn. Bicycle-holder	625,657	May 23	3077	700	87	1360
Elliott, William J., and I. M. Miller, Valatie, N. Y. Latch-opener attachment for knitting-machines	629,155	July 18	2256	522	88	476
Elliott, William S., Pittsburg, Pa. Water-column	626,226	June 6	19	5	87	1618
Elliott, William S., Pittsburg, Pa. Turbine motor	635,163	Oct. 17	2200	513	89	469
Elliott, William S., Pittsburg, Pa. Tube-cleaner	635,164	Oct. 17	2202	514	89	469
Elliptic Cycle Company. (See Harrison, John, assignor.)						
Ellis, Arthur W., London, England. Stoppering device for bottles or similar vessels	621,233	Mar. 14	1300	287, 288	86	1767
Ellis, Charles S., assignor to H. T. Willson and H. S. Merritt, Chicago, Ill. Machine for binding and stamping currency	624,915	May 16	1775	400, 401	87	1086
Ellis, Charles S., assignor to Doan & Gates Company, Chicago, Ill. Upholsterer's button	637,720	Nov. 21	3225	671	89	1642
Ellis, George H., assignor to Deering Harvester Company, Chicago, Ill. Tension-producing device for twine-spinners	621,234	Mar. 14	1302	288	86	1767
Ellis, George R., assignor to Sun Manufacturing Company, Greenfield, Ohio. Cash-register	628,262	July 4	580	138	88	113
Ellis, Herman, New York, N. Y. Means for identifying brands of liquor contained in bottles	627,773	June 27	2908	636	87	2238
Ellis, John, Lynn, Mass. Water-filter	619,944	Feb. 21	2115	479	86	1264
Ellis, John, Lynn, Mass. Filter	638,663	Dec. 5	886	194	89	2038
Ellis May Vacuum Steel Syndicate. (See May, William E., assignor.)						
Ellis, Robert M., Nanaimo, Canada. Bag	626,680	June 13	845	192	87	1798
Ellis, Sidney R., New York, N. Y. Tilting bridge for theatrical purposes	618,076	Jan. 24	2329	519	86	507
Ellis, Sidney R., New York, N. Y. Theater apparatus	618,077	Jan. 24	2330	520	86	507
Ellis, William E. C., Petersfield, England. Seat-back	621,049	Mar. 14	979	213	86	1703
Ellis, Wilson R., Woodland, Cal. Egg-beater	617,416	Jan. 10	1078	246	86	229
Ellis, Wynn E., assignor to Paine-Ellis Grain Drier Company, Milwaukee, Wis. Grain-drier	620,432	Feb. 28	2966	680	86	1441
Ellison, Albert, Benton Centre, N. Y. Fence-lock	631,284	Aug. 22	2895	655	88	1344
Ellison, Jeff S., assignor of one-half to O. E. Hough, San Antonio, Tex. Prickly-pear or cactus burner	634,130	Oct. 3	280	68	89	59
Ellison, John D., Rives, Tenn. Nut-wrench	626,891	June 13	1284	281	87	1880
Ellison, Manierre. (See Freckleton, Charles F., assignor.)						
Ellison, Myron J., *et al.* (See Elleser, John C., assignor.)						
Elliston, John O., Southampton, N. Y. Barrel-pump	621,450	Mar. 21	1687	374	86	1858
Ellon & Co., Ludwig. (See Hanneke, Paul, assignor.)						
Ellrich, Robert C., assignor to Peck, Stow & Wilcox Company, Southington, Conn. Meat or vegetable cutter	622,844	Apr. 11	1197	278	87	246
Ellstrom, Gustaf, assignor to M. E. Johnson, Fitchburg, Mass. Bicycle	625,749	May 30	3254	738	87	1413
Ellsworth, David M., Camas, Wash. Fruit-evaporator	638,325	Dec. 5	258	54	89	1915
Ellwood City Gas Engine Company. (See Daellenbach, Charles R., assignor.)						
Elmore's German and Austro-Hungarian Metal Company. (See Preschlin, Paul E., assignor.)						
Elniff, John, Denver, Colo. Wind-motor	625,296	May 16	2450	556, 557	87	1212
Elrod, Harvey, Ladoga, Ind. Combined letter-box and bell	630,203	Aug. 1	876	189	88	896
Elrod, Robert H., Athens, B. Prickett and A. B. Smith, Maysville, Ga. Wire-stretcher	628,400	July 4	842	197	88	161
Elsas, Herman. (See Claussen and Elsas.)						
Elten, Alfred P., administrator. (See Weyhe, Hermann C. W.)						
Elwell, Fred S., Malden, assignor to J. H. Lesh, trustee, Newton, Mass. Antirefilling bottle	619,945	Feb. 21	2116	479	86	1265
Elwood, Edwin F., West Superior, Wis. Eyeglasses	628,930	July 18	1851	429	88	397
Elworthy, Herbert S., London, England. Apparatus for collecting carbonic-acid gas	619,398	Feb. 14	1112	251	86	1047
Ely, Alfred G., New York, N. Y. Non-refillable bottle	632,453	Sept. 5	447	100	88	1795
Ely, Charles E., Peebles, Ohio. Fire-escape and scaffold-holder	635,038	Oct. 17	1939	460	89	418

Alphabetical list of patentees—Continued.

Name, residence, and invention.	No.	Date.	Monthly volume.		Official Gazette.	
			Spec.	Dr'g.	Vol.	Page.
Ely, Edward O. (See Childs and Sangster, assignors.)						
Ely, Frederick, Newark, N. J. Means for preventing tampering with fire-alarm boxes	637,377	Nov. 21	2236	481	89	1408
Ely, William. (See Bernardini and Ely.)						
Ely, William, Providence, R. I. Electric switch	634,057	Oct. 3	125	32	89	29
Ely, William, Providence, R. I. Electric switch	639,195	Dec. 12	1850	426	89	2246
Emanuel, Philip, H. Wächter, and H. Zugt, Hamburg, Germany. Blacking composition	625,253	May 16	2373		87	1198
Emden, Julius, Hamburg, Germany. Safety-van for railway-trains	639,367	Dec. 19	2189	506	89	2330
Emerick, George S., Philadelphia, Pa. Rotary mill	628,141	July 4	347	82, 83	88	70
Emerick, George S., Philadelphia, Pa. Ground and fluid fuel burner	635,376	Oct. 24	2383	600	89	559
Emerick, George W. and W. J., Montandon, Pa. Closure for oil-cups	635,717	Oct. 24	3239	747	89	687
Emerick, William J. (See Emerick, George W. and W. J.)						
Emerson, Charles Y. (See Correll, Banerd A., assignor.)						
Emerson Electric Manufacturing Company. (See Meston, Charles R., assignor.)						
Emerson Electric Manufacturing Company. (See Meston, Charles R., assignor.) (Reissue.)						
Emerson Electric Manufacturing Company. (See Parker, Herbert L., assignor.)						
Emerson, Elisha, Buffalo, N. Y. Apparatus for electrodeposition of metals	617,526	Jan. 10	1262	287	86	266
Emerson, Elisha, Providence, R. I. Producing wire bars	638,917	Dec. 12	1354	309	89	2151
Emerson, George. (See Grow, William H., assignor.)						
Emerson, George A., *et al.* (See Brissette, Samuel J., assignor.)						
Emerson, George D., New Brunswick, N. J., assignor to National Musical String Company, of New Jersey. Wire-winding machine	635,039	Oct. 17	1940	460	89	418
Emerson, George E., assignor to Emerson Time Stamp Company, Newark, N. J. Time-stamping machine	637,721	Nov. 21	3226	671	89	1642
Emerson, Harry T. (See Robinson, Emerson, and Carlson.)						
Emerson Manufacturing Company. (See Jernberg, Gustaf, assignor.)						
Emerson Manufacturing Company. (See Traphagen, William H., assignor.)						
Emerson Manufacturing Company. (See Waterman, Lewis E., assignor.)						
Emerson, Thomas, Newport, R. I. Device for holding boats in upright position	622,336	Apr. 4	242	55	87	46
Emerson Time Stamp Company. (See Emerson, George E., assignor.)						
Emerson, William R., Baltimore, Md., assignor to Columbia Hydraulic and Engineering Company, of West Virginia. Steam vacuum-pump	628,432	July 4	895	210	88	172
Emerton, Edwin C., and W. L. Godfrey, Post Mills, Vt. Fence	619,684	Feb. 14	1616	369	86	1143
Emery, Abram D., Taunton, Mass. Spinning and twisting machinery	617,677	Jan. 10	1538	349, 350	86	319
Emery, Abram D., Taunton, Mass. Progressive spinning apparatus	617,680	Jan. 10	1550	352	86	321
Emery, Abram D., Taunton, Mass. Spinning mechanism	617,682	Jan. 10	1557	353, 354	86	322
Emery, Abram D., Taunton, Mass. Filling-supplying mechanism for looms	635,759	Oct. 31	3340	772, 773	89	719
Emery, Abram D., Taunton, Mass., assignor to Universal Loom Company, New York, N. Y. Spinning-head	617,678	Jan. 10	1542	350, 351	86	320
Emery, Abram D., Taunton, Mass., assignor to Universal Loom Company, New York, N. Y. Spinning machinery	617,679	Jan. 10	1545	351, 352	86	320
Emery, Abram D., Taunton, Mass., assignor to Universal Loom Company, New York, N. Y. Spinning-head	617,681	Jan. 10	1554	353	86	321
Emery, Abram D., Taunton, Mass., assignor to Universal Loom Company, New York, N. Y. Stopping, correcting, and restarting mechanism for looms	626,860	June 13	1210	267, 268	87	1866
Emery, Benjamin F, Des Moines, Iowa. Churn	619,739	Feb. 21	1742	397	86	1193
Emery, Charles G., trustee. (See Shortt, Edward G., assignor.)						
Emery, Charles H. (See Sears, William A., Jr., assignor.)						
Emery, George D. (See Skanks, George W., assignor.)						
Emery, Glen A., and W. J., Cunningham, Toledo, Ohio. Ripping attachment for sewing-machines	622,672	Apr. 11	898	206	87	190
Emery, John R., Oakley, Kans. Wind-motor	634,082	Oct. 3	170	43	89	38
Emery, Olondo B. (See Zickerman, Wilhelm A., assignor.)						
Emery, Plato G. (See Bartholomew and Emery.)						
Emery, Plato G., Chicago, Ill., assignor to Adams & Westlake Company, of Illinois. Window or curtain fixture	624,775	May 9	1508	343	87	1017
Emery, Plato G., assignor, by mesne assignments, to Curtain Supply Company, Chicago, Ill. Curtain-fixture	636,123	Oct. 31	4077	932, 933	89	864
Emery, William O. (See Carlton and Conners, assignors.)						
Emgarth, Victor E., Philadelphia, Pa. Rotary reciprocating pumping apparatus	630,977	Aug. 15	2343	534	88	1217
Emmerich, Rudolph F. (See Funk, Nelson E, assignor.)						
Emmerich, Rudolph F., New York, N. Y. Embossing-machine	626,490	June 6	500	115, 116	87	1710
Emmerich, Rudolph F., New York, N. Y. Dusting-machine	633,359	Sept. 19	2201	516, 517	88	2167
Emminga, Harm H., Golden, Ill. Bolting cloth cleaning brush	620,433	Feb. 28	2970	680	86	1441
Emory, Richard, Baltimore, Md. Means for operating foot-boards or steps of open or side-entering street-cars	626,892	June 13	1285	281	87	1881
Empfield, Thomas J., Davenport, Iowa. Wall-paper trimmer or cutter	621,299	Mar. 14	1420	314	86	1789
Empire Cash Register. (See Fauvel and Collins, assignors.)						
Empire Electrical Machinery Company. (See Freeman, Warren P., assignor.)						
Empire Engine and Motor Company. (See Barrett, William F., assignor.)						
Empire Engine and Motor Company. (See Cathcart, Frank H., assignor.)						
Empire Implement Manufacturing Company. (See Robinson, Albert S., assignor.)						
Empire Plow Company. (See Haiman and Bishop, assignors.)						
Empire Self Lighting Oil Lamp Company. (See Brigham and Meyer, assignors.)						
Empire Type Setting Machine Company. (See Dickinson, Charles W., assignor.)						
Empire Type Setting Machine Company. (See McClintock, Frank, assignor.)						
Emrick, Asa W. (See Schwerd and Emrick.)						
Emry, Robert H., Washington, Iowa. Cream-separator	639,675	Dec. 19	2746	630	89	2441
En Earl, William J, assignor of one-third to E. D. Hawley, Denver, Colo. Grain-dampener	631,625	Aug. 22	3523	794	88	1469
Enamel Eyelet Company. (See Kempshall, Eleazer, assignor.)						
Enatzky, Wolf, Philadelphia, Pa. Lid for stoves or ranges	638,104	Nov. 28	3968	834	89	1808
Enclosed Prism Company (See Winger, Oswald E., assignor.)						
Enderli, Johann. (See Dübendorfer, Heinrich, assignor.)						
Endruweit, Carl, Berlin, Germany. Stuffing-box packing	637,098	Nov. 14	1666	361	89	1281
Engel, August, assignor to Milwaukee Brass Manufacturing Company, Milwaukee, Wis. Faucet	636,777	Nov. 14	1059	226	89	1163
Engel, Christopher, *et al* (See Engel, John, assignor.)						
Engel, Franklin J., and C. F. Hirth, Mayville, Wis. Game apparatus	637,549	Nov. 21	2547	551	89	1468
Engel, George, assignor of one-half to O. F. Hager, Buffalo, N. Y. Beer-cooler	625,658	May 23	3080	701	87	1361

Alphabetical list of patentees—Continued.

Name, residence, and invention.	No.	Date.	Monthly volume.		Official Gazette.	
			Spec.	Dr'g.	Vol.	Page.
Engel, Hinrich, *et al.* (See Engel, John, assignor.)						
Engel, Heinrich, Leobschütz, Germany. Device for securing veils to hats	637,503	Nov. 21	2457	533	89	1451
Engel, John, assignor of two-thirds to H. and C. Engel, Chicago, Ill. Bicycle	618,652	Jan. 31	3418	762	86	728
Engelhardt, Frederick, *et al.* (See Goolman, Fred R., assignor.)						
Engels, Fritz W., assignor of one-half to H. R. Hirschbaum, London, England. Ball-bearing	638,222	Dec. 5	26	7	89	1872
Engelsmann, August, Stuttgart, Germany, assignor of one-half to A. Lieber, Indianapolis, Ind. Means for lighting fountains, &c	620,900	Mar. 14	674	146 147	86	1647
England, Alexander W. and F. D., and C. L. Randolph, Columbia, Tenn. Harrow	632,178	Aug. 29	4543	1025	88	1677
England, Frank D. (See England and Randolph.)						
England, Henry C. (See Riddett, John and J., assignors.)						
England, John D. (See Bengtson, Berndt E., assignor.)						
England, Nannie S., administratrix. (See England, Thomas A.)						
England, Thomas A., deceased, Draper, Utah; N. S. England, administratrix. Cattle-guard for railways	620,901	Mar. 14	675	147	86	1647
Englen, Frederick J., assignor of one-half to D. Cameron and R. J. Russell, Omaha, Nebr. Computing-scale	617,725	Jan. 17	1644	370	86	360
English, Andrew J., assignor to Perfection Light Company, Cincinnati, Ohio. Hydro-carbon-vapor lamp	618,078	Jan. 24	2331	520	86	507
English, John C., New York, N. Y. Workman's time-recorder	636,246	Nov. 7	26	6,7	89	930
English, Robert G., Des Moines, Iowa. Copy-holder attachment for type-writers	636,963	Nov. 14	1410	302	89	1232
English, William, Manchester, England. Outdoor seat	636,778	Nov. 14	1061	226	89	1163
Englund, John, Minneapolis, Minn. Combined guitar and mandolin	616,908	Jan. 3	82	16	86	18
Engqvst, John R., New York, N. Y. Window-sash	617,482	Jan. 10	1187	270	86	250
Engstfeld, Ernst, assignor to Hensel Silk Manufacturing Company, Philadelphia, Pa. Chenille	621,641	Mar. 21	2035	454	86	1921
Engstrand, Charles, Hartford, Conn. Wrench	636,247	Nov. 7	31	7	89	931
Engstrom, Axel H., Philadelphia, Pa. Electric system for automatically governing poly-phase-circuit breakers	636,028	Oct. 31	3863	887	89	821
Engstrom, Axel H., Philadelphia, Pa. Automatic circuit-breaking device for polyphase currents	636,029	Oct. 31	3864	887 888	89	821
Engstrom, Axel H., Philadelphia, Pa. Circuit-breaker	636,030	Oct. 31	3866	888 889	89	822
Engwall, Oscar F., assignor of two-thirds to C. D. Peacock, Jr., and A. Bonde, Chicago, Ill. Watch-regulator	635,760	Oct. 31	3345	774	89	720
Enlows, Paul. (See Eulass, Thomas H., assignor.)						
Ennis, Charles W. (See Robertson, Cullen A., assignor.)						
Ennis, George A., and H. H. Ross, Livingston, Mont. Bicycle	618,855	Feb. 7	65	14	86	816
Ennis, George A., and H. H. Ross, Livingston, Mont. Bicycle	628,082	July 4	225	52	88	46
Ennis, George H., assignor to J. D. Ennis and H. R. Gardner, Troy, N. Y. Metal ceiling and side-wall plate	628,579	July 11	1188	278	88	249
Ennis, Jessie D., *et al.* (See Ennis, George H., assignor.)						
Enochs, A. E. (See Crofford, Charles B., assignor.)						
Ensign, Charles A., New York, N. Y. Door-hanger	627,991	July 4	63	12	88	14
Ensign, Fred W., assignor to A. J. Cohen, Chicago, Ill. Air forcing or compressing device	624,002	May 2	87	19	87	719
Ensign, George A., assignor to Defiance Machine Works, Defiance, Ohio. Strip-cutting machine	635,241	Oct. 17	2328	544	89	493
Ensley, Peter B., assignor of one-half to M. T. Reeves, Columbus, Ind. Lawn-rake	623,708	Apr. 25	2770	634	87	587
Enslow, F. B., *et al.* (See Wright, Joseph F., assignor.)						
Enterprise Manufacturing Company of Pennsylvania. (See Asbury and Peoples, assignors.)						
Entz, Justus B., Philadelphia, Pa. Electric railway	619,287	Feb. 14	935	212	86	1011
Entz, Justus B., Philadelphia, Pa., assignor to Electric Storage Battery Company, of New Jersey. Electrical distribution by storage batteries	625,098	May 16	2106	479	87	1147
Entz, Justus B., Philadelphia, Pa., assignor to Electric Storage Battery Company, of New Jersey. Electrical distribution by storage batteries	625,099	May 16	2108	479	87	1147
Entz, Justus B., Philadelphia, Pa., assignor to Electric Storage Battery Company, of New Jersey. System of electrical distribution	625,100	May 16	2109	479	87	1148
Entz, Theodore B., Philadelphia, Pa. Electric vehicle	636,964	Nov. 14	1411	302	89	1232
Entz, Theodore B., Philadelphia, Pa. Electric vehicle	636,965	Nov. 14	1412	302	89	1232
Enz, Francis A., and W. H. Fetter, Pittsburg, Pa. Electrical bell-ringer for street-cars	636,779	Nov. 14	1062	227	89	1163
Eoff, Homer A. (See Borne and Frey, assignors.)						
Epp, Georg, Vienna, Austria-Hungary. Production of patterned metal foils	634,523	Oct. 10	1033	------	89	223
Eppes, George W., Lawrenceville, Va. Back-band and trace-connector	624,916	May 16	1779	401	87	1086
Eppler, Andrew, Jr., assignor to Eppler Welt Machine Company, Boston, Mass. Sewing-machine	622,337	Apr. 4	243	55,56	87	46
Eppler, John. (See Polican, Henry, assignor.)						
Eppler Welt Machine Company. (See Eppler, Andrew, Jr., assignor.)						
Era Incandescent Oil Lamp Company. (See Cranston, Thomas J., assignor.)						
Era Incandescent Oil Lamp Company. (See Graetz, Adolf, assignor.)						
Erb, William B., Chicago, Ill. Fluid-pressure motor	637,243	Nov. 21	1976	422 423	89	1355
Erbach, Valentine, Scranton, Pa. Car-coupling	637,099	Nov. 14	1667	361	89	1281
Erban, Franz, Höchst-on-the-Main, Germany, and L. Specht, Marienthal, Austria-Hungary. Dyeing	633,438	Sept. 19	2343	------	88	2194
Erdin, Charles A. (Seo Nichols and Erdin.)						
Erickson, Charles J. (See Keith and Erickson.)						
Erickson, Edward, Hoopeston, Ill. Railway-gate	636,509	Nov. 7	488	109	89	1020
Erickson, Edward, Boston, Mass. Bicycle-tire repairer	637,722	Nov. 21	3228	671	89	1642
Erickson, John. (See Keith and Erickson.)						
Erickson, John A., and F. W. Young, Malden, Mass. Self-closing gas-cock	638,178	Nov. 28	4110	867	89	1838
Erickson, John G., Lake Park, Iowa. Game-board	623,597	Apr. 25	2585	591	87	553
Erickson, Peter E., Port Chester, N. Y. Brush	624,464	May 9	955	213	87	907
Erickson, Peter E., assignor of one-half to J. W. Czermak, Port Chester, N. Y. Toe-clip	620,291	Feb. 28	2731	626	86	1397
Erickson, Peter E., assignor of one-half to J. W. Czermak, Port Chester, N. Y. Toe-clip	626,861	June 13	1216	268	87	1867
Ericksson, Erick A. (See Anderson and Ericksson.)						
Ericson, Carl H., Boston, Mass. Mangle	622,338	Apr. 4	246	56,57	87	47
Ericson, Charles J., Salt Lake City, Utah, assignor of one-half to G. G. Linen, New York, N. Y. Knob attachment	637,100	Nov. 14	1669	361	89	1281
Ericson, Edward, Boston, Mass. Bicycle-bell	636,966	Nov. 14	1413	302	89	1232
Ericson, Eric H., Oscarshamn, Sweden. Cane-gun	628,142	July 4	349	83	88	71
Ericson, Sten E., Stockholm, Sweden. Valve-cock	621,300	Mar. 14	1422	314	86	1789
Erie, James P., Los Angeles, Cal. Bottle-stopper	631,068	Aug. 15	2508	567 568	88	1250

Alphabetical list of patentees—Continued.

Name, residence, and invention.	No.	Date.	Monthly volume.		Official Gazette.	
			Spec.	Dr'g.	Vol.	Page.
Erie Safety Window Company. (See Eighmy, Clarence A., assignor.)						
Erikson, John, assignor of three-fifths to B. T. Potter and H. E. Barlow, Providence, R. I. Electric cut-out	636,379	Nov. 7	258	57	89	973
Erkenbreck, Frank, assignor to H. F. Crumb, Auburn, N. Y. Tool for trimming paper	623,000	Apr. 11	1466	338	87	299
Erlanger, Mitchell L. (See Koenig and Erlanger.)						
Ermold, Edward, New York, N. Y. Bottle-labeling machine	632,519	Sept. 5	566	130, 131, 132	88	1819
Ermold, Edward, New York, N. Y. Bottle-labeling machine	636,967	Nov. 14	1413	303	89	1232
Ermold, George, New York, N. Y. Case for hypodermic syringes	620,434	Feb. 28	2971	680	86	1441
Ern, Carl F., Wald, Germany. Machine for grinding or polishing blades of knives, razors, &c	616,909	Jan. 3	83	17	86	18
Ernest, John C., assignor of one-half to J. B. Foltz, Harrisburg, Pa. Car-brake	637,748	Nov. 21	3273	683	89	1651
Ernest, Juan W., Los Angeles, Cal. Portable booth	626,753	June 13	974	221	87	1821
Ernsberger, Harvey K., Norwalk, Ohio. Grate for heating systems, &c	625,659	May 23	3082	701	87	1361
Ernst, Clare, Bay City, Mich., assignor to F. E. Heath, New York, N. Y. Vise	630,530	Aug. 8	1552	346	88	1038
Ernst, Clare, Bay City, Mich., assignor to F. E. Heath, New York, N. Y. Vise	630,531	Aug. 8	1554	346	88	1038
Ernst, Friedrich, Hamburg, Germany. Artificial tooth	633,128	Sept. 19	1751	413	88	2077
Ernst, Otto, and A. Philips, Höchst-on-the-Main, Germany. Acetylene-gas generator	618,455	Jan. 31	3056	676	86	657
Errington, Franklin A., New York, N. Y. Tool-holder	632,810	Sept. 12	1148	264	88	1950
Errington, Franklin A., New York, N. Y. Stud-setting machine	632,811	Sept. 12	1149	264	88	1950
Errington, Franklin A., New York, N. Y. Stud-setting machine	632,812	Sept. 12	1154	265	88	1951
Erskine, Thomas S., Cleveland, Ky. Tool for sharpening dull plowshares	629,125	July 18	2201	510	88	466
Erstad, Severin, assignor of one-fourth to C. E. Cummings, Bisbee, Ariz. Ter. Non-refillable bottle	618,405	Jan. 31	2978	660	86	644
Ertel, George, assignor to George Ertel Company, Quincy, Ill. Incubator	633,439	Sept. 19	2344	553	88	2194
Erts, Joseph M., and J. Miller, Poughkeepsie, N. Y. Gas-holder	637,101	Nov. 14	1670	362	89	1282
Ervin, James M., assignor to Ervin Special Machine and Tool Co., Cleveland, Ohio. Means for operating brick-presses	631,422	Aug. 22	3150	714	88	1394
Ervin Special Machine and Tool Co. (See Ervin, James M., assignor.)						
Esch, George A., Sandusky, Ohio. Plastering composition and making same	627,910	June 27	3155	------	87	2289
Eschwei, Charles, New York, N. Y. Electric-arc lamp	620,759	Mar. 7	419	86	86	1583
Esmond Electric Traction and Signal Company. (See Esmond, Frederick C., assignor.)						
Esmond, Frederick C., New York, N. Y., assignor to Esmond Electric Traction and Signal Company, of West Virginia. Railway signal system	617,325	Jan. 10	882	206, 207	86	191
Esmond, William V., assignor to M. Kahn, New York, N. Y. Photographic shutter	621,332	Mar. 21	1485	329	86	1815
Esmond, William V., assignor to M. Kahn, New York, N. Y. Photographic shutter	622,611	Apr. 4	763	177	87	145
Esmond, William V., New York, N. Y., assignor to E. & H. T. Anthony & Company, of New York. Roll-holding camera	625,660	May 23	3082	701	87	1361
Esper, Frank H., Dearborn, Mich. Ground-marker	638,451	Dec. 5	508	103	89	1964
Esperson, William E., New York, N. Y. Pedal attachment	636,968	Nov. 14	1416	303	89	1233
Espy, John, administrator. (See Schoenleber, John J.)						
Esser, Theodor A., Chicago, Ill. Curtain-fixture	632,343	Sept. 5	242	58	88	1755
Essex, George B., Detroit, Mich. Lubricator	629,895	Aug. 1	270	61	88	773
Essex, James, London, Canada. Ball check-valve	628,779	July 11	1569	362	88	327
Essig, Ozia A., Canton, Ohio. Weather-strip	625,840	May 30	3436	780	87	1448
Essington, Henry C., Philadelphia, Pa. Wave-motor	625,101	May 16	2111	479, 480	87	1148
Essmueller-Hyde Mill Furnishing Company. (See Schmidt, Ludwig, assignor.)						
Estell, Samuel F., Chicago, Ill. Bottle seal and band	631,781	Aug. 29	3826	852	88	1536
Estill, Harry V., Moberly, Mo. Meter-box and meter connection therewith	627,911	June 27	3156	691	87	2289
Estwik, Olof. (See Lockrem and Estwik.)						
Esveldt, John P., Dartford, Wash. Tube-cutter	627,490	June 27	2376	523	87	2133
Etchells, John C., Heaton Chapel, England. Locking apparatus for doors of hoists or lifts	619,879	Feb. 21	2012	457	86	1245
Etheridge, Augustus H., Virginia Beach, Va. Car-fender	619,738	Feb. 21	1740	397	86	1192
Etheridge, Carrol L., Joplin, Mo. Wire fence	625,661	May 23	3085	701	87	1362
Etheridge, Carrol L., Joplin, Mo. Post-winder for wire fences	625,662	May 23	3086	702	87	1362
Etherington, Charles A., Sr., Hartford, Conn. Eyeglass attachment	617,242	Jan. 3	721	167	86	141
Etnyre, Edward D., Oregon, Ill. Sprinkler	618,538	Jan. 31	3210	711	86	687
Etnier, Oliver L., Chicago, Ill. Package for powder-papers	626,681	June 13	845	193	87	1798
Ette, Charles G., St. Louis, Mo. Odorizer	636,031	Oct. 31	3867	889	89	822
Etter, Samuel P., East Lake, Ala. Producing phosphoric iron or steel	639,368	Dec. 19	2190	------	89	2330
Euchenhofer, Edward E., Dayton, Ohio. Hacksaw	626,531	June 6	572	132, 133	87	1725
Eugene Dietzgen Company. (See Chamberlain, Paul M., assignor.)						
Eugene Dietzgen Company. (See Palmer, Jerome E., assignor.)						
Eugster, Johann J., New Reigel, Ohio. Case for sacerdotal articles	628,780	July 11	1570	362	88	327
Eulass, Thomas H., assignor of one-third to P. Enlows, Mason City, Ill. Stove or furnace	618,338	Jan. 24	2817	625	86	597
Eureka Instantaneous Opening Corset Steel Company. (See Herr, Austin, assignor.)						
Eureka Iron Company. (See St. Mary, Joseph, assignor.)						
Eustice, Edward A., and V. O. Bair, Newton, Iowa. Cabinet for storing and handling groceries, sugar, &c	638,569	Dec. 5	714	152	89	2003
Eustis, Clarence G., Chicago, Ill. Key for brake-shoes	639,676	Dec. 19	2748	630	89	2441
Euston, Alexander, St. Louis, Mo. Hydraulic press	631,285	Aug. 22	2898	655, 656	88	1344
Euston, Alexander, St. Louis, Mo. Hydraulic press	631,286	Aug. 22	2901	656	88	1345
Euston, Alexander, St. Louis, Mo. Apparatus for extracting oils	631,287	Aug. 22	2904	657	88	1345
Evan, Henrietta P., Winneconne, Wis. Garment-cutting scale	628,083	July 4	228	52	88	46
Evans, Alfred, assignor to Murphy, Wasey & Company, Detroit, Mich. Seat	621,642	Mar. 21	2086	454	86	1921
Evans, Charles G., Union, Canada. Bicycle-gear	618,856	Feb. 7	67	14, 15	86	817
Evans, Edwin. (See Parry and Evans.)						
Evans, Edwin L., St. Louis, Mo. Lid-retainer for ice-boxes	624,465	May 9	956	213	87	908
Evans, Enoch B., Washington, D. C. Soft-tread horseshoe	630,204	Aug. 1	877	190	88	896
Evans, Evan. (See Dyke, Henry H., assignor.)						
Evans, Evan. (See Franklin, Joseph E., assignor.)						
Evans, Evan, Llanrwst, assignor to Imperial S. C. Acetylene Gas Company, Limited, Manchester, England. Apparatus for washing and purifying gas	631,460	Aug. 22	3214	730	88	1407
Evans, Evan, Llanrwst, assignor, by mesne assignments, to Imperial S. C. Acetylene Gas Company, Limited, Manchester, England. Acetylene-gas-generating lamp	639,848	Dec. 26	3075	706	89	2524
Evans, George E., Monmouth, Ill. Wheeled plow	620,575	Mar. 7	39	8, 9	86	1510
Evans, George F., Boston, Mass. Belt-shifting device	627,491	June 27	2378	523, 524	87	2133
Evans, George H., Providence, R. I. Machine for forming annular grooves or beads on small metallic articles	638,867	Dec. 12	1267	287, 288	89	2132

Alphabetical list of patentees—Continued.

Name, residence, and invention.	No.	Date.	Monthly volume. Spec.	Monthly volume. Dr'g.	Official Gazette. Vol.	Official Gazette. Page.
Evans, George W. (See Hamill, Robert J. W., assignor.)						
Evans, George W., *et al.* (See Mahan, John H., assignor.)						
Evans, Harry M. (See Hile, John W., assignor.)						
Evans, Harry M. (See Scott, William, assignor.)						
Evans, Henry S., *et al.* (See Abbott, William O., assignor.)						
Evans, James E., and W. Curtis, Duluth, Minn. Tubular hot-water heater	630,674	Aug. 8	1804	406, 407	88	1087
Evans, Jervice G., and W. Goldsworthy, Abingdon, Ill. Centrifugal machine	636,780	Nov. 14	1064	227	89	1164
Evans, John, assignor of one-half to D. Campbell, Bridgeport, Conn. Fish-trap	621,643	Mar. 21	2037	455	86	1921
Evans, John, Grange Town, and R. W. Healey, South Bank, England. Wheel-center	624,003	May 2	89	19, 20	87	719
Evans, John W., Cleveland, Ohio. Apparatus for extracting oil	618,791	Jan. 31	3647	815, 816	86	773
Evans, Joseph W., Newburyport, Mass. Street-railway car	634,234	Oct. 3	488	122, 123	89	99
Evans, Matison J., Soldier, Ky. Churn lid and dasher	618,339	Jan. 24	2818	625	86	598
Evans, Peter D., Dayton, Ohio. Rain-water cut-off and separator	629,988	Aug. 1	486	106	88	819
Evans, Richard A. J., Chicago, Ill. Electric motor for brakes	630,205	Aug. 1	879	190	88	896
Evans, Roland, assignor of two-thirds to A. M. Rofinot and G. H. Hoxie, Chicago, Ill. Apparatus for ripping seams	633,642	Sept. 26	2731	636	88	2282
Evans, Scott F., Minneapolis, Minn. Tile-arch construction	629,896	Aug. 1	273	62	88	773
Evans, Thomas A., Portland, Oreg. Water-pressure regulator	623,773	Apr. 25	2910	666	87	615
Evans, Wallace J. (See Hadley and Evans.)						
Evans, Warren C., Exeter, N. H., H. D. Allard, Bradford, and J. B. Kenison, Lynn, Mass. Sole-edge-blacking machine	629,126	July 18	2202	510, 511	88	466
Evans, Warren C., Exeter, N. H., and H. D. Allard, Bradford, assignors to J. B. Kenison, trustee, Lynn, Mass. Sole-edge-blacking machine	629,316	July 18	2531	589	88	527
Evans, Warren R., Portland, Me. Street-car illuminated sign	624,776	May 9	1511	344	87	1017
Evans, William, Manchester, England. Pneumatic apparatus for raising liquids	623,357	Apr. 18	2151	495	87	448
Evans, William, assignor to J. W. Mackenzie, London, England. Machine for preparing seed for planting	623,081	Apr. 11	1610	370	87	328
Evans, William C. D., Norwalk, Cal. Nut and washer for vehicle-axles	621,301	Mar. 14	1423	314	86	1790
Evans, William D., Shelton, Conn. Holder for endless razor-strops	639,545	Dec. 19	2505	577	89	2393
Evans, William J., Butte, Mont. Drill forging and sharpening machine	637,102	Nov. 14	1670	362	89	1282
Evans, William V., Dixie, Ind. Ter. Feed-box	623,001	Apr. 11	1468	338, 339	87	299
Even, Michael, Port Washington, Wis. Revolving chair	638,223	Dec. 5	27	7	89	1872
Even, Michael, Port Washington, Wis. Tilting-chair	638,224	Dec. 5	28	7	89	1872
Evens, Edward L., Adelaide, South Australia. Window-sash for purposes of ventilation and fastening	633,129	Sept. 19	1752	413	88	2078
Evered, Herbert C., Chicago, Ill. Clothes-drier	636,510	Nov. 7	490	109	89	1020
Everett, Frank W., New York, N. Y. Pocket pencil-holder	627,056	June 13	1565	342	87	1935
Everett, James F., and A. Kirkman, Wallington, England. Self-inflating tire for bicycles	638,628	Dec. 5	832	180	89	2025
Everett, Otis W., assignor to Samuel Winslow Skate Manufacturing Company, Worcester, Mass. Roller-skate wheel	623,358	Apr. 18	2152	495	87	449
Everett, Robert L., Harrisburg, Nebr. Gathering attachment for mowing-machines	639,220	Dec. 19	1897	437	89	2268
Everhard, Joseph, Round Rock, Tex. Convertible churn and ice-cream freezer	627,492	June 27	2381	524	87	2134
Everhart, Solon W. (See Barton, Edward H., assignor.)						
Everit, Edward H. (See Doolittle and Everit.)						
Everitt, James A. (See Pottenger, James H., assignor.)						
Everitt, James A., Indianapolis, Ind. Atomizer	620,576	Mar. 7	43	9	86	1510
Everitt, Robert J., assignor of one-half to R. Gasau, New York, N. Y. Spring bed-bottom	624,634	May 9	1262	282	87	967
Evershed, John, Kenley, England. Adhesive compound	629,006	July 18	1979	------	88	422
Evershed, Sydney, London, England. Counting mechanism of electric-supply motor-meters	617,726	Jan. 17	1646	370	86	360
Evershed, Sydney, assignor to himself and Evershed & Vignoles, London, England. Portable hand-dynamo	639,849	Dec. 26	3076	707	89	2524
Evershed & Vignoles. (See Evershed, Sydney, assignor.)						
Everson, George H., Pittsburg, Pa. Compound metal tube	627,992	July 4	65	12	88	14
Everson, George R., Cincinnati, Ohio. Catamenial garment	623,658	Apr. 25	2682	615	87	570
Everton, Roland W., and W. Frost, Troy, N. Y. Musical instrument	625,663	May 23	3087	702	87	1362
Everts, Adelbert. (See Richardson, Albert C., assignor.)						
Eves, Joshua V., W. D. and L. F. O'Brien, Belfast, Ireland. Sad-iron	621,235	Mar. 14	1304	288, 289	86	1767
Evette, Paul, Paris, France. Saxophone	638,385	Dec. 5	380	80	89	1939
Evinof, Julius, London, England. Non-refillable bottle	622,887	Apr. 11	1277	295	87	261
Evolution Cycle Company. (See Nichols, Marion L., assignor.)						
Evrioge, Charles B., assignor of one-half to J. P. Yeiser, Paducah, Ky. Dust-conveyer for cars	629,346	July 25	2595	601, 602	88	558
Ewald, Julius, Fairchild, Wis. Combined pencil and pen holder	637,103	Nov. 14	1672	362	89	1282
Ewald, Julius, Fairchild, Wis. Sliding door	637,104	Nov. 14	1673	363	89	1282
Ewart Manufacturing Company. (See Howe, Glenn G., assignor.)						
Ewart, Philo C., Cincinnati, assignor of one-half to C. A. Barnard, Cleveland, Ohio. Car-coupling	629,497	July 25	2883	671	88	616
Ewbank, Ernest L., Hendersonville, N. C., assignor of two-thirds to W. B. Hallet, Spartanburg, and J. L. Tribble, Anderson, S. C. Non-refillable bottle	622,612	Apr. 4	764	177	87	145
Ewer, Roland G., *et al.* (See Angell, Albert, assignor.)						
Ewers, Frank H. (See Pyle, George C., assignor.)						
Ewing, Edwin C., assignor to National Car Roofing Company, Wheeling, W. Va. Car-roof	636,781	Nov. 14	1067	227	89	1164
Ewing, Joseph G., McDonald, Pa. Vest	625,254	May 16	2374	538	87	1198
Ewing, Joseph G., assignor of one-half to R. F. Wallace, McDonald, Pa. Valve	635,761	Oct. 31	3346	774	89	720
Ewing, Robert, Troy, N. Y. Motion-reversing mechanism	636,969	Nov. 14	1417	304	89	1233
Ewing, Thomas H., Elreno, Okla. Ter. Tool	635,307	Oct. 24	2455	571	89	534
Ewing, Thomas H., Elreno, Okla. Ter. Plow	635,762	Oct. 31	3348	774	89	720
Excellograph Co. (See Miller and Rice, assignors.)						
Excelsior Electric Company. (See Rosenqvist, Conrad L., assignor.)						
Excelsior Needle Company. (See Dayton, William H., assignor.)						
Expansive Tree Protector Company. (See Coon, Willis H., assignor.)						
Export Implement Manufacturing Company. (See Reiner, Andrew L., assignor.)						
Ey, Gustav, New York, N. Y. Incandescent tube-igniter for gas-engines	639,025	Dec. 12	1547	255	89	2188
Eyer, George, Jr., Lyons, N. Y. Tilting seat for vehicles	628,979	July 18	1927	449	88	412
Eynon, Thomas M., Philadelphia, Pa. Blow-off valve	617,150	Jan. 3	563	133	86	110
Eyster, Charles, Holcomb, Ill. Safe or vault	623,145	Apr. 18	1763	405	87	371
Eyster, Charles, Holcomb, Ill. Safe-lock	636,325	Nov. 7	165	36, 37	89	954

Alphabetical list of patentees—Continued.

Name, residence, and invention.	No.	Date.	Monthly volume.		Official Gazette.	
			Spec.	Dr'g.	Vol.	Page.
F. A. Requarth Company. (See Requarth, Henry W., assignor.)						
F. A. Whitney Carriage Company. (See Perley, George F., assignor.)						
F. B. Fargo & Company. (See Penn, William E., assignor.)						
F. B. Tait Manufacturing Company. (See Gatewood, William F., assignor.)						
F. B. Tait Manufacturing Company. (See Wright, Lindley A., assignor.)						
F. D. Cummer & Son Company. (See Cummer, Franklin D., assignor.)						
F. H. Chase Company. (See Chase, Frank H., assignor.)						
F. N. Livingston & Company. (See Bliss, Charles A., assignor.)						
F. Reddaway & Company. (See Muskett, Jabez, assignor.)						
Faatz, William G., Lestershire, N. Y. Felt mat	628,980	July 18	1928	449	88	412
Fabe, George, St. Louis, Mo. Fire-escape	620,902	Mar. 14	676	147 148	86	1647
Faber, Frank M., assignor to Stirling Company, Chicago, Ill. Steam-boiler	626,754	June 13	977	221	87	1822
Faber, William M., Jr., Pittsburg, Pa. Tube-cleaner	620,113	Feb. 28	2419	547	86	1336
Faber, William M., Jr., Pittsburg, Pa. Boiler-tube-cleaning apparatus	638,225	Dec. 5	30	8	89	1872
Fabrik für Spezialnahmaschinen Actien-Gesellschaft, (Patente Julius Gutmann.) (See Gutmann, Julius, assignor.)						
Fabrik Mechanischer Apparate Gesellschaft mit Beschränkter Haftung. (See Pallweber, Joseph, assignor.)						
Fack, August, *et al.* (See O'Brien, Arthur, assignor.)						
Fadden, James D., Auburn, Me. Child's toy	628,654	July 11	1353	315	88	281
Fadum, Ernest, assignor of one-half to Reinle Bros. & Salmon, Baltimore, Md. Show-case	629,672	July 25	3194	744	88	677
Fagerström, Ernst E. F., Stockholm, Sweden. Regulating device for petroleum-motors	622,798	Apr. 11	1103	256	87	229
Fahrmeier, Ernst C., Berger, Mo. Barbed-wire reel	637,451	Nov. 21	2365	511	89	1433
Fain, Joseph. (See Fain, Simon, assignor.)						
Fain, Simon, assignor of one-half to J. Fain, New York, N. Y. Combined sweater and hood	621,050	Mar. 14	980	213	86	1703
Fairbairn, John, assignor to W. Fairbairn, Detroit, Mich. Rein-holder	618,170	Jan. 24	2532	560	86	544
Fairbairn, Walter. (See Fairbairn, John, assignor.)						
Fairbanks, Ephraim W., Los Angeles, Cal. Carrier, server, and dish-unshipper	630,453	Aug. 8	1405	314	88	1011
Fairbanks, Harry H. (See Muslar, Nelson, assignor.)						
Fairbanks, Henry, St. Johnsbury, Vt., assignor to E. & T. Fairbanks & Company, of Vermont. Weight-register	617,285	Jan. 3	805	187 188	86	158
Fairbanks, Henry W. (See Sweeney, Henry G., assignor.)						
Fairbanks, Morse & Company. (See Charter and Hobart, assignors.)						
Fairbanks, Morse & Company. (See Hobart, Frank G., assignor.)						
Fairbanks, Morse & Company. (See Morse and Hobart, assignors.)						
Fairchild, John A., and G. R. Wilton, Los Angeles, Cal. Concrete-breaking machine	617,310	Jan. 3	846	197	86	167
Fairchild, Julius M., *et al.* (See Gallagher, George S., assignor.)						
Fairchild, Louis H. (See Kells, Charles E., Jr., assignor.)						
Fairchild, Rebecca L., *et al.* (See Durst, John B., assignor.)						
Fairfield, Adelmond C., Normal, Ill. Nut-lock	632,557	Sept. 5	648	150	88	1835
Fairfield, John M., and E. H. Dodge, assignors to Hartford Typewriter Company, Hartford, Conn. Escapement mechanism	635,957	Oct. 31	3718	859	89	792
Fairley, Thomas, Leeds, England. Extractor	623,892	Apr. 25	3137	722	87	658
Fairley, Thomas, Leeds, England. Making ammonium nitrate	623,893	Apr. 25	3138	723	87	659
Fairley, Thomas, Leeds, England. Apparatus for condensing and cooling vapors or liquids	627,774	June 27	2908	636	87	2238
Fairman, John F., Hastings, Nebr. End-gate for wagons	622,213	Apr. 4	31	7	87	9
Fairmount Machine Company. (See Fowler, Simon A., assignor.)						
Fake, Edward D., assignor to Remington Arms Company, Ilion, N. Y. Chain	630,978	Aug. 15	2345	534	88	1217
Falcon, Joseph G., Evanston, Ill. Device for transmitting power	626,993	June 13	1454	319	87	1915
Fales, Edward, Winthrop, Mass. Stove	617,727	Jan. 17	1647	371	86	360
Fales, Edward, Winthrop, Mass. Steam-jet for boilers	627,724	June 27	2821	618	87	2220
Fales, Edward, Winthrop, Mass. Steam and air blower	627,725	June 27	2823	618 619	87	2221
Fales, Edward, Winthrop, Mass. Smoke-consuming device	627,726	June 27	2824	619	87	2221
Fales & Jenks Machine Company. (See Jenks, Daniel B., assignor.)						
Fales, Lewis F., Walpole, Mass. Chafe-iron	617,483	Jan. 10	1188	270	86	251
Falk, Moses, New York, N. Y. Storage-package	628,159	July 4	379	89	88	77
Falkenbach, Hermann, New York, N. Y. Coachman's hat	622,040	Mar. 28	2800	631	86	2084
Falkenstein, A. M. (See Wilhelm, Jacob and J. F., assignors.)						
Falkenstein, Charles H., assignor of one-half to G. W. Youngblood, West Superior, Wis. Whiffletree	631,565	Aug. 22	3426	774	88	1449
Faller, Emil. (See Gutmann, Faller, and Mischke.)						
Fallin, George W., Sherman Heights, Tenn. Fire-alarm	617,326	Jan. 10	895	208	86	193
Fallon, Thomas F., Lawrence, Mass. Stove-damper lock	629,347	July 25	2598	602	88	559
Fancher, Salathiel C., Kansas City, Mo. Truss	623,207	Apr. 18	1876	430	87	393
Fanckboner, William, Schoolcraft, Mich. Broom	637,328	Nov. 21	2142	461	89	1388
Fangel, John P., New York, N. Y. Device for controlling combination-locks for desks	632,454	Sept. 5	449	101	88	1796
Fangel, John P., New York, N. Y. Locking device for desks	638,226	Dec. 5	31	8	89	1873
Fanning, Eugene, assignor to himself, F. Fanning, Newton, and T. H. Keenan, Boston, Mass. Box-machine	629,783	Aug. 1	41	11	88	729
Fanning, Frank, *et al.* (See Fanning, Eugene, assignor.)						
Fanning, John T., Minneapolis, Minn. Steam-boiler	635,923	Oct. 31	3665	846	89	782
Fannon, William A., Appleton, Wis. Step-screen for pulp-chips	621,402	Mar. 21	1594	353	86	1836
Fansher, Andrew J., Olivet, Iowa. Hog-trough	633,508	Sept. 19	2453	578	88	2215
Fanta, Bernard, Los Angeles, Cal. Cigar	634,104	Oct. 3	225	57	89	49
Fanta, Ferdinand, assignor to Improved Electric Glow Lamp Company, Limited, London, England. Tool for manufacturing glass bulbs	629,555	July 25	2985	698	88	637
Fantroy, Robert, Lilley, Ark. Log-binder	632,704	Sept. 12	950	220	88	1909
Farbenfabriken of Elberfeld Company. (See Bredt, Julius, assignor.)						
Farbenfabriken of Elberfeld Company. (See Demuth, Robert, assignor.)						
Farbenfabriken of Elberfeld Company. (See Eichengrün, Arthur, assignor.)						
Farbenfabriken of Elberfeld Company. (See Heymann, Bernhard, assignor.)						
Farbenfabriken of Elberfeld Company. (See Hofmann, Fritz, assignor.)						
Farbenfabriken of Elberfeld Company. (See Janssen, Hermann, assignor.)						
Farbenfabriken of Elberfeld Company. (See Neumann, Albert, assignor.)						
Farbenfabriken of Elberfeld Company. (See Schmidt, Robert E., assignor.)						
Farbenfabriken of Elberfeld Company. (See Thun, Karl, assignor.)						
Farbenfabriken of Elberfeld Company. (See Ulrich, Moritz, assignor.)						
Farbenfabriken, vormals Fr. Bayer & Co. (See Baumann, Eugen, assignor.)						
Farber, Lewis, Boston, Mass. Device for tinting ceilings	625,969	May 30	3676	835	87	1493

Alphabetical list of patentees—Continued.

Name, residence, and invention.	No.	Date.	Monthly volume. Spec.	Monthly volume. Dr'g.	Official Gazette. Vol.	Official Gazette. Page.
Farbwerke, vormals Meister, Lucius & Brüning. (See Becke and Beil, assignors.)						
Farbwerke, vormals Meister, Lucius & Brüning. (See Einhorn, Alfred, assignor.)						
Farbwerke, vormals Meister, Lucius & Brüning. (See Fuchs and Gussmann, assignors.)						
Farbwerke, vormals Meister, Lucius & Brüning. (See Herrmann, Albert, assignor.)						
Farbwerke, vormals Meister, Lucius & Brüning. (See Homolka and Stock, assignors.)						
Farbwerke, vormals Meister, Lucius & Brüning. (See König, Ernst, assignor.)						
Farbwerke, vormals Meister, Lucius & Brüning. (See König, Ernst, assignor.) (Reissue.)						
Farbwerke, vormals Meister, Lucius & Brüning. (See König and Scholl, assignors.)						
Farbwerke, vormals Meister, Lucius & Brüning. (See Le Blanc and Reisenegger, assignors.)						
Farbwerke, vormals Meister, Lucius & Brüning. (See Philips, Alfred, assignor.)						
Farbwerke, vormals Meister, Lucius & Brüning. (See Philips and Gallois, assignors.)						
Farbwerke, vormals Meister, Lucius & Brüning. (See Schirmacher, Karl, assignor.)						
Farbwerke, vormals Meister, Lucius & Brüning. (See Scholl, Franz, assignor.)						
Farbwerke, vormals Meister, Lucius & Brüning. (See Scholl and Hess, assiguors.)						
Farfan, Joseph F. A., Port-of-Spain, Trinidad. Bicycle-brake	627,912	June 27	3157	691	87	2289
Fargo, Edwin A. (See Moore and Fargo.)						
Fariss, George E., Noblesville, Ind. Whiffletree-coupling	639,555	Dec. 19	2531	581	89	2398
Fark, Henry W., Cleveland, Ohio. Wire-drawing composition	618,079	Jan. 24	2333	------	86	508
Farley, Frank E., San Francisco, and J. H. Jackson, Watsonville, Cal. Device for drawing steam-beer	621,998	Mar. 28	2732	617	86	2071
Farley, James W., Crawfordville, assignor of one-half to L. L. Yent, Carrabelle, Fla. Apparatus for destroying teredos and other marine growths	632,919	Sept. 12	1356	313	88	1989
Farmer, Chester, Rockford, Ill. Water-tank	625,494	May 23	2803	638	87	1306
Farmer, Frank H., assignor of two-thirds to P. G. Forsyth and T. O. Harvey, Los Angeles, Cal. Boot-blacking machine	621,236	Mar. 14	1306	289	86	1768
Farmer, James D., St. Louis, Mo. Commode	629,434	July 25	2752	639	88	592
Farmer, James D., assignor to R. L. Hill, St. Louis, Mo., and W. W. Stall, Boston, Mass. Protecting-casing for bicycle drive-chains	617,683	Jan. 10	1561	354	86	322
Farmer, John R., assignor, by direct and mesne assignments, to Mississippi Valley Electrical and Manufacturing Company, St. Louis, Mo. Third-rail electric-railway system	629,435	July 25	2752	639	88	592
Farmer, John R., assignor of three-fourths to A. Boettler, H. F. W. Ruhe, and D. H. Lohse, St. Louis, Mo. Suspending device	632,558	Sept. 5	649	151	88	1835
Farmer, Nathan M., Burr, Nebr. Wrench	636,648	Nov. 7	753	165	89	1074
Farmer, Theodore P. (See Parks and Farmer.)						
Farnell, George T., Bayborough, N. C., assignor of one-fourth to H. L. Edmunds, Newport News, Va. Money holder and changer	628,401	July 4	843	197, 198	88	161
Farnes, John L., Rexburg, Idaho. Rotary engine	632,404	Sept. 5	352	80	88	1775
Farney, Samuel S., Castorland, N. Y. Setting-gage for cutters	620,760	Mar. 7	421	86	86	1583
Farnham, Charles T., Manchester, N. H. Electric lighter for incandescent burners	631,628	Aug. 22	3531	795	88	1471
Farnsworth, George N., Grimes, Cal. Draft appliance	633,440	Sept. 19	2345	553	88	2194
Farnum, William C., Arlington, Vt. Game apparatus	639,719	Dec. 26	2833	653	89	2476
Farquharson Electric Gas Lighting Company. (See Farquharson and Root, assignors.)						
Farquharson, Henry C., New York, N. Y. Apparatus for lighting car-lamps	627,105	June 20	1656	361	87	1973
Farquharson, Henry C., New York, N. Y. Apparatus for electrically lighting lamps	627,106	June 20	1658	362	87	1973
Farquharson, Henry C., and D. F. Root, assignors to Farquharson Electric Gas Lighting Company, New York, N. Y. Gas-lighting apparatus	627,226	June 20	1859	408	87	2013
Farr, Edward L., Wenonah, N. J. Apparatus for applying bushings to printing-blocks	632,783	Sept. 12	1096	254	88	1939
Farr, Edward L., Wenonah, N. J. Printing-machine for oil-cloth, linoleum, &c	638,326	Dec. 5	260	54	89	1916
Farr, Freeman S., Minneapolis, Minn., assignor to Edward P. Allis Company, Milwaukee, Wis. Sawmill	618,653	Jan. 31	3420	762	86	728
Farr, Freemon S., and C. F. Nyberg, Minneapolis, Minn. Ice-motor	626,322	June 6	196	48, 49	87	1650
Farr, Lewis W. (See Drake, Charles E., assignor.)						
Farrand, Harry B., Philadelphia, Pa. Coin-controlled pump for inflating bicycle-tires, &c	636,782	Nov. 14	1068	228	89	1164
Farrar, Charles U., New Orleans, La. Coffee or grain mill	636,124	Oct. 31	4079	933	89	864
Farrar, Frederick H. (See Gray and Farrar.)						
Farrar, John C., *et al.* (See Stauber, Joseph, assignor.)						
Farrar, John J., assignor of one-half to J. B. Henry, Rapid City, S. D. Tire for wheels	624,314	May 2	685	150	87	831
Farrel Foundry and Machine Company. (See Brown, Horatio M., assignor.)						
Farrel Foundry and Machine Company. (See Hale, Bernard O., assignor.)						
Farrel Foundry and Machine Company. (See Johnson, Edgar H., assignor.)						
Farrel Foundry and Machine Company. (See Whitlock, Myron J., assignor.)						
Farrell, James H., Harrisburg, Pa. Triple valve	626,601	June 6	684	158	87	1747
Farrell, John E., assignor of one-half to R. Leroy, Hartford, Conn. Stopper for bottles or similar vessels	623,359	Apr. 18	2153	495	87	449
Farrell, John R., Boston, Mass. Detachable button	627,578	June 27	2550	561	87	2166
Farrell, Peter T., *et al.* (See Porter, Henry W., assignor.)						
Farrer, Charles S., Dunmore, Pa. Tipple	617,087	Jan. 3	432	105	86	84
Farrer, Charles S., Dunmore, Pa. Steam-blower	631,007	Aug. 15	2387	543	88	1226
Farrey, Philip H., Troy, N. Y. Pipe-coupling	617,728	Jan. 17	1650	371	86	361
Farrington, Charles E., Caldwell, N. J. Chair	628,306	July 4	673	157, 158	88	130
Farrington, Ida F. (See Ham, Edward E., assignor.)						
Farrington, John A., New York, N. Y., assignor to Babcock Printing Press Manufacturing Company, New London, Conn. Carrier for slip-sheets	629,556	July 25	2987	698	88	637
Farrington, Rufus E., and L. D. Copeland, Phœnix, Ariz. Ter.; said Copeland assignor to said Farrington. Drill	628,781	July 11	1572	363	88	327
Farrow, Charles S., Eugene, Oreg. Nail	638,386	Dec. 5	382	80	89	1939
Farson, Daniel D. L., Philadelphia, Pa. Faucet	628,931	July 18	1853	429	88	397
Farwell, Fay O , assignor of one-half to Adams Company, Dubuque, Iowa. Molding-machine	618,080	Jan. 24	2334	520, 521, 522	86	508
Farwell, George E., Chicago, Ill. Hat-tray	621,911	Mar. 28	2564	578	86	2039
Farwell, George L., St. Paul, Minn., assignor to S. E. Farwell, Boston, Mass. Advertising apparatus	636,783	Nov. 14	1070	228	89	1165
Farwell, Sidney E. (See Farwell, George L., assignor.)						
Fassett, Charles M. (See Blair, John, assignor.)						
Fassett, Harris H., San Francisco, Cal. Automatic door-check	620,761	Mar. 7	422	87	86	1583
Fassett, Harris H., San Francisco, Cal. Safety gas-cock	635,012	Oct. 17	1892	450	89	409
Fassett, Miles E., Ione City, Cal. Gate-opening device	637,927	Nov. 28	3618	758	89	1742
Fauber, William H., Chicago, Ill Integral crank-hanger and rear fork for bicycles	619,550	Feb. 14	1370	315, 316	86	1097
Fauber, William H., Chicago, Ill. Velocipede	624,635	May 9	1264	282	87	967

Alphabetical list of patentees—Continued.

Name, residence, and invention.	No.	Date.	Monthly volume.		Official Gazette.	
			Spec.	Drg.	Vol.	Page.
Fauber, William H., Chicago, Ill. Bicycle crank-hanger	624,636	May 9	1265	282, 283	87	967
Fauber, William H., Chicago, Ill. Seat-post clamp	634,058	Oct. 3	126	32	89	29
Fauber, William H., Chicago, Ill. Lathe	636,248	Nov. 7	32	8, 9	89	931
Faucett, Eugene V., Wilmington, Del. Friction-clutch	630,532	Aug. 8	1555	347	88	1039
Fauck, Albert, Marcinkowice, Austria-Hungary. Rig for boring wells	631,423	Aug. 22	3152	715	88	1305
Faulkner, Clay, McMinnville, Tenn. Axle-bearing	619,946	Feb. 21	2118	479	86	1265
Faulkner, James J., Memphis, Tenn. Electric furnace	628,782	July 11	1574	363	88	328
Faulkner, James J., Memphis, Tenn., assignor of two-thirds to J. W. Runner, Ithaca, N. Y. Gas-pump for ice-machines	618,004	Jan. 17	2171	484, 485	86	462
Faulkner, James J., assignor to Standard Gas Machine Company, Memphis, Tenn. Acetylene-gas generator	624,466	May 9	956	213	87	908
Faulkner, James J., assignor to Standard Gas Machine Company, Memphis, Tenn. Acetylene-gas generator	624,467	May 9	959	213	87	908
Faulkner, James J., assignor to Standard Gas Machine Company, Memphis, Tenn. Acetylene-gas apparatus	624,468	May 9	961	214	87	909
Faulkner, James J., assignor to Standard Gas Machine Company, Memphis, Tenn. Acetylene-gas apparatus	624,469	May 9	964	214	87	909
Faulkner, James J., assignor of two-thirds to W. S. Brian and R. W. Spencer, Memphis, Tenn. Roller baling-machine	636,380	Nov. 7	259	57, 58	89	973
Faulstich, Bernard, *et al.* (See Faulstich, Wendelin, assignor.)						
Faulstich, Wendelin, assignor to B. Faulstich and F. Daab, Belleville, Ill. Chimney-top	627,775	June 27	2909	636	87	2238
Faunce, George W., assignor of one-half to F. Seitter, Philadelphia, Pa. Bicycle support and lock	618,654	Jan. 31	3422	763	86	728
Faure, Charles, Geneva, Switzerland. Mechanism for periodically displacing flexible ribbon	626,532	June 6	575	133	87	1726
Faus, Lundy B. (See Faus, Thomas W. and L. B.)						
Faus, Thomas W., Cherokee, and L. B. Faus, Emmetsburg, Iowa. Cistern or arch pattern	622,134	Mar. 28	2973	672	86	2119
Fausek, Alexander V., St. Louis, Mo., assignor to American Tripoli Company, of Missouri. Supply-regulator for water-filters	624,777	May 9	1512	344	87	1017
Fauser, Fredrick, Jr., Philadelphia, Pa. Fruit-jar closure	619,288	Feb. 14	938	212	86	1012
Faust, Charles A., Chicago, Ill. Penholder attachment	629,436	July 25	2753	640	88	593
Faust, Jacob, assignor of one-third to C. Robinson, Scranton, Pa. Barrel-washer	629,743	July 25	3322	775, 776	88	702
Faust, Jacob N., and W. N. Eichberg, Chicago, Ill. Suspenders	624,470	May 9	966	214	87	909
Faust, Peter, New York, N. Y. Mustard-mill	631,931	Aug. 29	4070	914	88	1584
Fauvel, Charles J., and N. Collins, assignors to Empire Cash Register, Limited, London, England Cash-register	627,403	June 20	2224	490, 491	87	2085
Faux, Joseph A., assignor of one-half to J. Jarrett, Pittsburg, Pa. Manufacture of gas	630,602	Aug. 8	1678	377, 378	88	1064
Favor, Milton M. (See Russell, Frederic T., assignor.)						
Favre, Louis E., Cormoret, Switzerland. Alarm-clock	639,966	Dec. 26	3289	752	89	2568
Fawell, Joseph, Pittsburg, Pa. Bearing for crank-shafts	625,546	May 23	2890	657	87	1324
Faxon, Frank C., San Francisco, Cal. Acetylene-gas burner	635,532	Oct. 24	2913	665	89	624
Fay, August M., *et al.* (See Hadfield, Joseph, assignor.)						
Fay, Charles N., Chicago, Ill. Type-writing machine	629,437	July 25	2755	640, 641	88	593
Fay, Charles N., Chicago, Ill. Ribbon mechanism for type-writing machines	629,438	July 25	2762	642	88	594
Fay, Charles P., assignor to J. Stevens Tool and Arms Company, Chicopee, Mass. Center-indicator	617,501	Jan. 10	1211	276	86	256
Fay, Henry H. (See Eickmann and Fay.)						
Fay, Logan R., *et al.* (See Hadfield, Joseph, assignor.)						
Fay, Norman H., Dexter, Me. Turret-lathe	639,892	Dec. 26	3148	724	89	2537
Fay, William J., assignor of one-fourth to V. A. Pernot, Colegrove, Cal. Wheel-wrench	636,649	Nov. 7	755	165	89	1074
Faye, Ennemond, and G. S. J. B. Bochet, Lyons, France. Indicating and recording apparatus for vehicles	620,903	Mar. 14	677	148, 149, 150	86	1648
Fearey, Frederick T., Newark, N. J. Railway-rail joint	637,723	Nov. 21	3229	672	89	1642
Fearing, Edna L., Oak Park, Ill. Rack-bar for type-writers	629,717	July 25	3280	765	88	693
Fearon, Charles, and W. E. Bradley, Philadelphia, Pa. Switch-signaling device	635,130	Oct. 17	2142	501	89	458
Fearon, Robert N. (See Stitts, Sylvester, assignor.)						
Feather, Charles, and A. T. Saxton, Jamestown, N. Y. Detachable ice-creeper	628,263	July 4	583	138	88	113
Featherstone, Matthias S., Goshen, Cal. Automatic fly-trap	620,292	Feb. 28	2732	626	86	1397
Feaver, Frederick W., London, England. Manufacture of sheet-metal cans or boxes	619,289	Feb. 14	938	213	86	1012
Fechtner, Josef, Philadelphia, Pa. Rotary engine	638,227	Dec. 5	32	8, 9, 10	89	1873
Feckenscher, Frank C. (See Kirkland and Feckenscher.)						
Feder, Charles J., assignor to R. Feder, Paterson, N. J. Railway advertising apparatus	622,185	Mar. 28	3064	694	86	2138
Feder, Charles J., assignor to R. Feder, Paterson, N. J. Railway advertising apparatus	622,186	Mar. 28	3066	695	86	2138
Feder, Rosa. (See Feder, Charles J., assignor.)						
Fee, Thomas, and T. Mason, New York, N. Y. Pipe-hanger	632,705	Sept. 12	951	220	88	1909
Feed Water Purifier Company. (See Miller, Charles H., assignor.)						
Feed Water Purifier Company. (See Willebrand, Theodor, assignor.)						
Feeney, William H. (See Morgan, William T., assignor.)						
Feeny, Claire B., administratrix. (See Feeny, Thomas F.)						
Feeny, Edmund J., assignor of eleven-twentieths to M. T. Moloney, Ottawa, Ill. Pump-cylinder	624,917	May 16	1780	401	87	1087
Feeny, Thomas F., Boulder, Colo. Fence-wire fastening	621,491	Mar. 21	1763	393	86	1867
Feeny, Thomas F., deceased, Boulder, Colo.; C. B. Feeny, administratrix. Friction-gear for bicycles	633,130	Sept. 19	1753	613	88	2078
Feerer, Lee T., Lafayette, Ind. Lawn-mower	633,643	Sept. 26	2731	636	88	2282
Feeser, Charles A., Munson, W. Va. Fastening device	621,913	Mar. 28	2568	579	86	2039
Fefel, Henry H., New York, N. Y., assignor to Multiple Power Company, of West Virginia. Means for propelling boats	637,959	Nov. 28	3674	771, 772	89	1752
Feher, Odilon, assignor of two-thirds to J. N. Lariviere and J. La France, Montreal, Canada. Ice-creeper	637,221	Nov. 14	1927	412	89	1330
Fehling, Paul, Berlin, Germany. Bicycle-lock	639,196	Dec. 12	1852	426	89	2246
Fehr, Albert H., and J. W. Lovatt, Bethlehem, Pa. Toe-weight for horses	619,947	Feb. 21	2120	480	86	1266
Fehrenbach, John M., Philadelphia, Pa. Construction of vessels	619,155	Feb. 7	691	147, 148	86	947
Fehrlin, Henry C., St. Louis, Mo., assignor to Fink & Fehrlin Chemical Company, Milwaukee, Wis. Manufacturing salol	622,456	Apr. 4	458	------	87	85
Feiker, Eward P., Northampton, Mass. Fire-escape	632,993	Sept. 12	1472	343	88	2012
Feister, Henry P., Philadelphia, Pa. Feeding-machine	617,151	Jan. 3	565	133	86	110

Alphabetical list of patentees—Continued.

Name, residence, and invention.	No.	Date.	Monthly volume.		Official Gazette.	
			Spec.	Dr'g.	Vol.	Page.
Feit, George I., Phillipsburg, N. J. Berry-crate	620,024	Feb. 21	2255	511	86	1291
Feix, Alois, Le Puy, France. Ball-bearing	637,329	Nov. 21	2143	461, 462	89	1388
Feix, Otto F., assignor of one-half to G. Gottschalk, Gloversville, N. Y. Leather-dressing machine	636,970	Nov. 14	1420	304, 305	89	1234
Fekete, Caroline. (See Krekes, Daniel, assignor.)						
Felbel, Jacob. (See Stickney, Burnham C., assignor.)						
Felbel, Jacob, New York, assignor to Wyckoff, Seamans & Benedict, Ilion, N. Y. Typewriting machine	619,290	Feb. 14	940	213	86	1012
Felbel, Jacob New York, assignor to Wyckoff, Seamans & Benedict, Ilion, N. Y. Typewriting machine	619,880	Feb. 21	2013	458	86	1246
Felber, Emil, Haledon, N. J. Shuttle	621,644	Mar. 21	2038	455	86	1921
Felder, John B. (See Sawyer, Walter H., assignor.)						
Feldhaus, Fred, Mount Vernon, Ohio. Valve-gear	618,340	Jan. 24	2819	626	86	598
Feldkamp, Fritz A., Newark, N. J. Acetylene-gas generator	632,679	Sept. 5	884	205, 206, 207	88	1884
Feldmann, Friederich, George, Iowa. Hasp-lock	622,613	Apr. 4	765	178	87	146
Feldmann, Wilhelm, Nuremberg, Germany. Articulated suspension appliance for cars for elevated railways	631,988	Aug. 29	4178	939	88	1604
Feldmeier, Harvey, assignor to D. H. Burrell & Co., Little Falls, N. Y. Combined churn and butter-worker	622,918	Apr. 11	1325	305	87	270
Felgemaker, Augustus B., Erie, Pa. Register-stop for pipe-organs	626,414	June 6	370	87	87	1685
Felgemaker, Augustus B., Erie, Pa. Pipe-organ	626,415	June 6	372	87	87	1686
Felix, John. (See Bagley and Felix.)						
Felker, Andrew and L. H., Kendall, Wis. Sleigh-knee	619,470	Feb. 14	1237	282	86	1070
Felker, Lewis H. (See Felker, Andrew and L. H.)						
Fell, Jasper P., Linneus, Mo. Shipping-tag	619,156	Feb. 7	692	148	86	947
Fellenbaum, Harry, Philadelphia, Pa. Feed-water heater	634,884	Oct. 17	1674	395	89	365
Fellman, Edward J. (See Romuender, William, assignor.)						
Fellner, Christian, and J. Steimle, assignors to Fellner & Ziegler, Frankfort-on-the-Main, Germany. Apparatus for making ammonia	635,308	Oct. 24	2457	571, 572	89	534
Fellner & Ziegler. (See Fellner and Steimle, assignors.)						
Fellowes, Birney, and H. Van Hoevenbergh, assignors to H. L. Fellowes, New York, N. Y. Electric branding device	619,471	Feb. 14	1238	282, 283	86	1070
Fellowes, Henrietta L. (See Fellowes and Van Hoevenbergh, assignors.)						
Fellowes, Henrietta L. (See Van Hoevenbergh, Henry, assignor.)						
Fellows, John H., assignor of one-half to J. W. Morrison, El Dorado, Kans. Gold-washing apparatus	637,861	Nov. 28	3505	731	89	1718
Fellows, Olin S., Middletown, N. Y. Can-controlling device	636,125	Oct. 31	4081	933, 934	89	864
Felt, Dorr E., Chicago, Ill. Tabulating-machine	628,176	July 4	410	96, 97	88	83
Felt, Hannibal, Hagerstown, Ind. Churn	639,159	Dec. 12	1767	408	89	2231
Felten & Guilleaume. (See Ficker, Max A., assignor.)						
Felts, Oscar N., assignor of two-thirds to T. E Johnson, Fulton, Mo. Apparatus for filtering cider or spirits	621,803	Mar. 28	2356	528	86	1998
Fenby, Edgar B., assignor to G. C. Marks, London, England. Coin-actuated weighing-machine	637,928	Nov. 28	3619	758, 759	89	1742
Fender, George W., Sparks, Ga. Seed-planter and fertilizer-distributer	635,094	Oct. 17	2068	487	89	445
Fender, James C. (See Selby, Frederick, assignor.)						
Fenimore, James C., Newton, Kans. Washing-machine	631,932	Aug. 29	4072	914	88	1585
Fenlason, Orin C., Hoquiam, Wash. Collapsible fruit-basket	632,344	Sept. 5	244	58	88	1755
Fenlason, Orin C., Hoquiam, Wash. Shipping-box	632,345	Sept. 5	245	58	88	1756
Fenlason, Orin C., Hoquiam, Wash. Scoring-tool for veneer-lathes	633,548	Sept. 19	2524	593	88	2228
Fenn, William A., West Winfield, N. Y. Type-holder	630,873	Aug. 15	2139	485	88	1178
Fenn, William B., New York, N. Y. Raisin-seeder	631,069	Aug. 15	2510	568, 569	88	1251
Fenn, William B., Dorranceton, assignor to Monarch Seeder Company, Limited, Kingston, Pa. Raisin-seeder	620,866	Mar. 7	614	134, 135	86	1623
Fennell, Harry, assignor of one-half to A. A. Gleason, Everett, Mass. Eyeglasses	637,199	Nov. 14	1889	406	89	1323
Fenner, Jess B., Buffalo, N. Y. Mechanical movement for gas-engine valves, &c	634,207	Oct. 3	419	106, 107	89	87
Fenno Cloth Cutting Machine Company. (See Howe, Patrick, assignor.)						
Fensom, James, Hillman, Mich. Excelsior-machine	633,822	Sept. 26	3032	705	88	2344
Fentem, Richard B., Newman, Cal. Land-gage for plows	629,156	July 18	2257	523	88	476
Fenton, Joseph T., Philadelphia, Pa. Bicycle saddle-post	623,774	Apr. 25	2912	666	87	616
Fenton, Joseph T., Philadelphia, Pa. Bicycle handle-bar	626,602	June 6	686	158, 159	87	1747
Fenton, Joseph T., Philadelphia, Pa. Bicycle handle-bar	627,227	June 20	1863	408	87	2014
Fenton Metallic Manufacturing Company. (See McKenzie, Angus, assignor.)						
Fenton, Theodore C., U. S. Navy. Rammer for ordnance	627,404	June 20	2228	491	87	2086
Fenton, Theodore C., U. S. Navy. Hydraulic buffer	636,126	Oct. 31	4082	934, 935	89	865
Fenwick, Edward T., administrator. (See Claughton, Henry.)						
Ferguson, Alfred D., Odessa, Mo. Grain or seed recleaner and grader	621,912	Mar. 28	2565	578	86	2039
Ferguson, Cara S., assignor of one-half to H. C. Werner, Columbus, Ohio. Rubber heel attachment for boots or shoes	638,228	Dec. 5	39	10	89	1875
Ferguson, Edward G., and J. P. Holmen, Kensett, Iowa. Tire-heater	617,152	Jan. 3	568	133	86	111
Ferguson, Henry, *et al.* (See Walker, Joseph, assignor.)						
Ferguson, James. (See Halligan, James C., assignor.)						
Ferguson, James H., assignor to Lovejoy Company, New York, N.Y. Leading-machine	619,016	Feb. 7	421	88	86	892
Ferguson, James H., assignor to Lovejoy Company, New York, N. Y. Belt-shifter	619,017	Feb. 7	423	88, 89	86	892
Ferguson, James S., Minneapolis, Minn. Acetylene-gas generator	625,388	May 23	2614	595	87	1270
Ferguson, Louis B, Meridian, Miss. Brake head, shoe, and hanger	638,229	Dec. 5	39	11	89	1875
Ferguson, Samuel, Hazle Green, Iowa. Hay-loader	637,550	Nov. 21	2548	552	89	1469
Ferguson, Thomas, Hawksburn, Victoria. Apparatus for drawing off aerated liquids from bottles	624,199	May 2	464	97, 98	87	788
Ferguson, Thomas, and G. B. Brace, Parkersburg, Iowa. Gate	639,547	Dec. 19	2508	578	89	2393
Ferguson, Walton. (See Blumenberg, Henry, Jr., assignor.)						
Ferguson, William J., assignor of one-half to W. G. H. Stump, Baltimore, Md. Electric switch	618,380	Jan. 24	2898	642	86	613
Ferguson, William J., assignor of one-half to W. G. H. Stump, Baltimore, Md. Device for preventing incrustation of boilers	635,468	Oct. 24	2810	642	89	604
Ferguson, William N., *et al.* (See Houston, George W., assignor.)						
Fergusson, Alan R., assignor to W. D. Mackey and W. R. Robbins, New York, N. Y. Sash-lock	639,546	Dec. 19	2506	578	89	2393

Alphabetical list of patentees—Continued.

Name, residence, and invention.	No.	Date.	Monthly volume.		Official Gazette.	
			Spec.	Dr'g.	Vol.	Page.
Fergusson, Alan R., and S. Chase, Denver, Colo.; said Chase assignor to said Fergusson. Lock and latch combined	617,648	Jan. 10	1495	341	86	311
Ferland, Joseph E., Lawrence, Mass. Hair-cutter	625,102	May 16	2114	480	87	1149
Ferland, Joseph E., Lawrence, Mass. Toy savings-bank	627,727	June 27	2827	619	87	2221
Ferm, Charles, Lindsborg, Kans. Draft-equalizer	624,918	May 16	1781	401	87	1087
Fernald, Charles F., and F. J. Karten, Santa Paula, Cal. Holder for fly-paper	617,243	Jan. 3	722	167	86	141
Fernald, George H., North East, Pa. Antirattling thill-coupling	626,862	June 13	1217	269	87	1867
Fernald, George W., Needham, Mass. Door check and closer	625,495	May 23	2804	638, 639	87	1307
Fernald, George W., Needham, assignor to Austin & Eddy, Boston, Mass. Blind-hinge	623,952	Apr. 25	3246	747	87	679
Fernald, James C., Philadelphia, Pa. Weather-repelling device for doors	630,026	Dec. 12	1548	355	89	2188
Fernandez, William T., New York, assignor of two-thirds to J. C. Keator, Bensonhurst, N. Y., and J. A. Ubsdell, Port Eads, La. Street-car	629,498	July 25	2886	672	88	617
Fernstrom, Herman. (See Ide and Fernstrom.)						
Ferracciu, Filiberto, Savona, Italy. Apparatus for generating acetylene gas	631,566	Aug. 22	3428	774	88	1450
Ferrall, Thomas L., assignor of one-half to Rome Manufacturing Company, Rome, N. Y. Handle for metal ware	630,675	Aug. 8	1806	407	88	1087
Ferrari, Carl, *et al.* (See Stahl, Karl M., assignor.)						
Ferrari, Guido, *et al.* (See Brehm, Jean F., assignor.)						
Ferraris, Galileo, and R. Arno, Turin, Italy. Arrangement for starting alternating-current motors	329,897	Aug. 1	275	62	88	774
Ferraris, Galileo, and R. Arno, Turin, Italy. System of electrical distribution	629,898	Aug. 1	279	63, 64	88	775
Ferrata, Giuseppe, Greenville, S. C. Ventilated shoe-heel	622,673	Apr. 11	899	206	87	190
Ferreira, Charles E., Chicago, Ill. Feed-water heater	631,363	Aug. 22	3038	688, 689	88	1372
Ferrell, Joseph L., Philadelphia, Pa. Method of and apparatus for fireproofing wood, &c	620,114	Feb. 28	2421	547, 548	86	1337
Ferrell, Lena F., La Monte, Mo. Folding box	635,377	Oct. 24	2584	600	89	559
Ferres, Jeffrey T., Anderson, Ind., assignor to J. W. Sefton Manufacturing Company, Anderson, Ind., and Chicago, Ill. Photograph-protector	633,360	Sept. 19	2205	518	88	2167
Ferriott, Charles L., assignor of one-half to E. Ford, Bartlett, Tex. Tire-tightener	632,706	Sept. 12	952	221	88	1910
Ferris, Anna S., Jenkintown, Pa. Diaper	631,629	Aug. 22	3532	796	88	1471
Ferris, Frank E. (See Leland and Ferris.)						
Ferris, Fred L. (See Hobby, Delzon G., assignor.)						
Ferris, Henry L., assignor to Hunt, Helm & Ferris, Harvard, Ill. Combined churn and butter-worker	619,291	Feb. 14	942	213, 214	86	1013
Ferris, Lester D., Hood River, Oreg. Changeable-speed gearing	619,551	Feb. 14	1372	316	86	1097
Ferris, William I., Stamford, Conn. Fountain-pen	625,722	May 23	3183	723	87	1381
Ferris, William J., Woonsocket, R. I. Stop-motion for circular-knitting machines	637,929	Nov. 28	3621	759	89	1742
Ferro, Joaquin. (See Castro, Angel de, assignor.)						
Fessard, Eugène, Poissy, France. Explosion-motor	639,160	Dec. 12	1768	408, 409	89	2231
Fessenden, John C., St. Francis, Minn. Collar	636,032	Oct. 31	3868	889	89	822
Fessenden, Reginald A., Allegheny, assignor of one-half to G. McCargo, Pittsburg, Pa. Pencil for incandescent lamps	638,837	Dec. 12	1213	273	89	2123
Fessenden, Reginald A., Allegheny, assignor of one-half to G. McCargo, Pittsburg, Pa. Pencil for incandescent lamps	638,838	Dec. 12	1215	273	89	2123
Fessenden, Reginald A., Allegheny, assignor of one-half to G. McCargo, Pittsburg, Pa. Incandescent lamp	638,839	Dec. 12	1215	273	89	2123
Fessenden, Reginald A., Allegheny, assignor of one-half to G. McCargo, Pittsburg, Pa. Incandescent lamp	638,840	Dec. 12	1217	274	89	2123
Fessenden, Reginald A., Allegheny, assignor of one-half to G. McCargo, Pittsburg, Pa. Incandescent lamp	639,161	Dec. 12	1769	409	89	2231
Fessler, Alfred A., Allegheny, Pa. Internal-combustion steam-generator	635,095	Oct. 17	2072	487	89	445
Fest, William P., Rochester, N. Y. Casket-handler for hearses	621,051	Mar. 14	981	213, 214	86	1703
Fette, Frank J., Indianapolis, Ind. Engine	626,005	May 30	3789	862	87	1516
Fetter, William H. (See Enz and Fetter.)						
Fetzer, Elias B., Montandon, Pa. Pump-operating attachment	619,824	Feb. 21	1898	433	86	1223
Fetzer, James J., Columbiana, assignor to Herbrand Company, Fremont, Ohio. Body-hanger for vehicles	635,718	Oct. 24	3240	747	89	688
Fetzer, William, Omaha, Nebr. Body-loop for vehicles	635,763	Oct. 31	3349	774	89	720
Feust, Sigmund, New York, N. Y. Machine for manufacturing metal wool	619,076	Feb. 7	530	111	86	913
Fey, Julius, Weldon Spring, Mo. Grain-measure	623,775	Apr. 25	2913	666	87	616
Fey, Julius, Weldon Spring, Mo. Bag-holder	631,288	Aug. 22	2906	657	88	1346
Ffolkes, Edward G. E. (See Bray, Oscar E., assignor.)						
Fibrig, Johann, Unter-Thörl, Austria-Hungary. Apparatus for attaining correct position of pens when writing	621,472	Mar. 21	1733	386	86	1862
Fick, Walter L., Quincy, Ill. Truss	630,206	Aug. 1	880	190	88	896
Fickelscheer, Carl, Cassel, Germany. Tension-wheel	618,456	Jan. 31	3058	676	86	658
Fickelscheer, Carl, Cassel, Germany. Mixing-machine	619,018	Feb. 7	424	89	86	892
Ficken, John M. (See Kennelly, John J., assignor.)						
Ficker, Max A., Chemnitz, assignor to Felten & Guilleaume, Mülheim-on-the-Rhine, Germany. Machine for making middle eyes of heddles	630,874	Aug. 15	2141	485, 486	88	1178
Fiddes, William, Bristol, assignor of one-half to W. & B. Cowan, Limited, London, England. Gas-meter	626,893	June 13	1286	282	87	1881
Fiedler & Sons, A. B. (See Algeo, Bradley C., assignor.)						
Field, Adelbert, Portland, Oreg. Gate	626,682	June 13	847	193	87	1798
Field, James P., Atlanta, Ga. Harness-hitching device	619,292	Feb. 14	943	214	86	1013
Field, John F. and C. Prins, assignors to E. H. Stafford Company, Muskegon, Mich. School-desk	620,762	Mar. 7	423	87	86	1584
Field, Samuel F., and J. Palmer, Findlay, Ohio. Wrist-pin	618,655	Jan. 31	3424	763	86	729
Field, Stephen D., Stockbridge, assignor to American Bell Telephone Company, Boston, Mass. Composite signaling and transmission system	619,157	Feb. 7	693	148, 149	86	947
Field, Telford C., Southampton, England. Variable-speed driving-gear	639,548	Dec. 19	2509	578	89	2393
Field, Wallace L., Escanaba, Mich., assignor of one-half to C. A. Lawton, De Pere, Wis. Cutter-head	630,040	Aug. 1	594	130	88	841
Field, Wallace L., Escanaba, Mich., and C. A. Lawton, De Pere, Wis. Heading-cutting machine	629,989	Aug. 1	488	107	88	819
Field, Walter D., Newark, N. J., assignor to Lakoid Manufacturing Company, of New Jersey. Patent-leather and making same	627,493	June 27	2383		87	2134
Fielden, William, Port Oram, N. J. Spike-puller	631,160	Aug. 15	2671	604	88	1281
Fielder, Alfred F. (See Holden and Fielder.)						
Fielder, Fletcher H., Greenwood, Miss. Basket-grate	628,402	July 4	846	198	88	162
Fielder, George B., *et al.* (See Johnston Abner, assignor.)						
Fielder, Nathan A., Redden, Tenn. Fence-machine	630,875	Aug. 15	2142	486	88	1178

Alphabetical list of patentees—Continued.

Name, residence, and invention.	No.	Date.	Monthly volume. Spec.	Monthly volume. Dr'g.	Official Gazette. Vol.	Official Gazette. Page.
Fielding, John, Belmont, Upton St. Leonard's, England. Riveting-engine	624,435	May 2	893	202	87	873
Fielding, John, Upton St. Leonards, assignor to Gas and Sulphate Producer, Limited, London, England. Apparatus for producing carbureted hydrogen	629,317	July 18	2533	589, 590	88	528
Fields, John M., San Francisco, Cal. Compass and course corrector	628,600	July 11	1214	284, 285	88	254
Fielitz, Fredrich G. A., Armourdale, Kans. Valve for air-brake systems	621,052	Mar. 14	982	214	86	1703
Fifield, James J., Boston, Mass. Repeating clock	618,406	Jan. 31	2980	660	86	644
Fildes, Thomas, Chicago, Ill. Car-coupling	619,881	Feb. 21	2015	458	86	1246
Filer & Stowell Company. (See Neacy, Thomas J., assignor.)						
Filley, William S., Montpelier, Ohio. Blowpipe	617,729	Jan. 17	1652	371	86	361
Filley, William S., Montpelier, Ohio. Carbureter	620,646	Mar. 7	195	40	86	1540
Filliez, Peter F., Canton, Ohio. Hot-air furnace	621,806	Mar. 28	2360	528	86	1999
Fillmore, Harry A. (See Byle, Fillmore, and Nicholson.)						
Filor, Charles F., Trenton, N. J. Ice-skate	617,649	Jan. 10	1498	341	86	312
Filstrup, Hans C., and F. A. Sennet, assignors to Lyon & Healy, Chicago, Ill. Bending-machine	639,221	Dec. 19	1899	438	89	2269
Filstrup, L. L. (See Schofield, Henry P., assignor.)						
Filstrup, Lars L., assignor of one-half to H. P. Schofield, Chicago, Ill. Saw-sharpening machine. (Reissue)	11,733	Apr. 11	1716	397	87	347
Filstrup, Lars L., assignor of one-half to H. P. Schofield, Chicago, Ill. Saw-sharpening machine	628,655	July 11	1354	316	88	282
Filteau, Joseph, *et al.* (See Filteau, Peter, assignor.)						
Filteau, Peter, assignor of three-fourths to J. Filteau, N. Paquin, and A. Gauvreau, Montreal, Canada. Locking device for bottle-stoppers	624,004	May 2	96	20	87	721
Filter and Brautechnische Maschinen-Fabrik Actien-Gesellschaft, vormals L. A. Enzinger. (See Ackermann, Gustav, assignor.)						
Finch, Frederick A., assignor of one-third to F. W. Kleine, St. Louis, Mo. Toe-stiffener for footwear	638,048	Nov. 28	3846	808	89	1785
Finch, George R., *et al.* (See Dean, James H., assignor.)						
Finch, Howell M., *et al.* (See Hotz, Henry H., assignor.)						
Finch, Howell M., *et al.* (See Petmecky, Joseph C., assignor.)						
Finch, James T., Mimico, Canada. Kiln for burning sewer-pipe	630,207	Aug. 1	882	190, 191	88	897
Finch, Stanley W., Washington, D. C. Skate	628,433	July 4	898	210	88	173
Findlay, George, San Antonio, Tex. Car-coupling	622,674	Apr. 11	900	206	87	190
Finin, John F., assignor to R. P. McChesney, Pittsburg, Pa. Cushion-tire	624,315	May 2	686	151	87	832
Finin, John F., assignor to R. P. McChesney, Pittsburg, Pa. Cushion-tire	637,200	Nov. 14	1890	406	89	1323
Finished Steel Company. (See Haas, Philip M., assignor.)						
Fink, Albert, Buffalo, and F. Paplow, Sloan, N. Y. Door for grain-cars	624,316	May 2	688	151, 152	87	832
Fink, Bodenheimer & Co. (See Mann, Lonis, assignor.)						
Fink & Fehrlin Chemical Company. (See Fehrlin, Henry C., assignor.)						
Fink, Jacob, Paderborn, Germany. Rail	624,471	May 9	967	215	87	910
Fink, Lewis, *et al.* (See Midgley, Thomas, assignor.)						
Fink, Mathis, Chaska, Minn. Coupling and draft-cushioning device	626,154	May 30	4102	935	87	1571
Fink, William P., Beury, W. Va. Nut-lock	635,040	Oct. 17	1942	460	89	419
Finlayson, Christopher T., Denver, Colo. Submerged torpedo-tramway	624,472	May 9	968	215	87	910
Finley, J. P. (See Bagley, Frank A., assignor.)						
Finley, John M. (See Hawle and Finley.)						
Finley, John T., Mountain Home, Ark. Razor	624,778	May 9	1514	344	87	1018
Finn, John F., *et al.* (See Curley, Patrick H., assignor.)						
Finn, Wade M., *et al.* (See Jones, Samuel H., assignor.)						
Finney, James J., assignor, by mesne assignments, to J. H. Chandler, Chicago, Ill. Automatic fluid-pressure brake	622,135	Mar. 28	2974	672	86	2119
Finney, James J., assignor, by mesne assignments, to J. H. Chandler, Chicago, Ill. Automatic fluid-pressure brake	622,136	Mar. 28	2978	673	86	2120
Finot, Raphaël, Murphysborough, Ill, Corn-planter	625,664	May 23	3089	702	87	1362
Finsrud, Hans A., and C. E. Ramberg, Skien, Norway. Shoe or glove and fastener for same	622,675	Apr. 11	902	206	87	191
Finzel, Herman, Lawrence, Mass. Vapor-bath apparatus	626,373	June 6	309	71	87	1673
Fire Extinguisher Manufacturing Company. (See Steck, Ernst F., assignor.)						
Firestone, Harvey S. (See Kenna, Benjamin F., assignor.)						
Firm, Joseph L., Jersey City, N. J., assignor to Goss Printing Press Company, Chicago, Ill. Printing-press	631,424	Aug. 22	3154	715, 716, 717	88	1395
Firm, Joseph L., Jersey City, N. J., assignor to Goss Printing Press Company, Chicago, Ill. Folding and delivery mechanism for printing-presses	635,719	Oct. 24	3241	247	89	688
Firm, Joseph L., Jersey City, N. J., assignor to Goss Printing Press Company, Chicago, Ill. Printing-machine	637,330	Nov. 21	2143	462, 463	89	1389
Firma Fabrik für Spezialnahmaschinen Actien-Gesellschaft, (Patente Julius Gutmann.) (See Gutmann, Julius, assignor.)						
Firma Fabrik für Spezialnahmaschinen Actien-Gesellschaft, (Patente Julius Gutmann.) (See Gutmann, Faller, and Mischke, assignors.)						
Firsching, Joseph, Utica, N. Y. Machine for cutting and turning wristbands	632,308	Sept. 5	188	42, 43	88	1744
Firth, Ernest. (See Ramsden, Taylor, and Firth.)						
Firth, James N. and J. T., Newburg, N. Y. Draining-rack	632,899	Sept. 12	1322	303	88	1982
Firth, Joseph T. (See Firth, James N. and J. T.)						
Firth-Sterling Steel Company. (See McKenna, Alexander G., assignor.)						
Firth, William. (See Ulbrich, Richard C., assignor.)						
Fischbach, Johannes, and L. Henss, Wiesbaden, Germany. Penholder	627,776	June 27	2910	636	87	2238
Fischer, Albert, Pittsburg, Pa. Engine	623,776	Apr. 25	2915	666	87	616
Fischer, Alexander. (See Osterberg and Fischer.)						
Fischer, Alexander, assignor to A. R. Shattuck, New York, N. Y. Binding-post and connection for electrical apparatus	638,230	Dec. 5	41	11	89	1875
Fischer, Bernhard, R. H. Borowski, and T. P. Goebel, Detroit, Mich. Bottle-cleaning apparatus	627,612	June 27	2028	577, 578	87	2182
Fischer, Bernhard L., Buffalo, N. Y. Attachment for bedsteads	625,496	May 23	2806	639	87	1307
Fischer, Charles. (See Fischer, Kuett, and Fischer.)						
Fischer, Christian A., Grand Forks, N. D. Ejector for breakdown firearms	636,650	Nov. 7	757	165	89	1074
Fischer, Emil, Berlin, assignor to C. F. Boehringer & Soehne, Waldhof, Germany. Alkylpurin and making same	617,985	Jan. 17	2134	------	86	456
Fischer, Emil, Berlin, assignor to C. F. Boehringer & Soehne, Waldhof, Germany. Making heteroxanthin	617,986	Jan. 17	2140	------	86	456
Fischer, Emil, Berlin, assignor to C. F. Boehringer & Soehne, Waldhof, Germany. Alkylhypoxanthin and making same	618,045	Jan. 17	2258	------	86	477
Fischer, Emil, Berlin, assignor to C. F. Boehringer & Soehne, Waldhof, Germany. Alkyl derivative of uric acid and obtaining same	621,804	Mar. 28	2357	------	86	1998

Alphabetical list of patentees—Continued.

Name, residence, and invention.	No.	Date.	Monthly volume. Spec.	Monthly volume. Dr'g.	Official Gazette. Vol.	Official Gazette. Page.
Fischer, Emil, Berlin, assignor to C. F. Boehringer & Soehne, Waldhof, Germany. Making alkyl derivatives of uric acid	621,805	Mar. 28	2358	------	86	1999
Fischer, Emil, Berlin, assignor to C. F. Boehringer & Soehne, Waldhof, Germany. Thio derivative of purin and making same	625,441	May 23	2710	------	87	1288
Fischer, Emil, Berlin, assignor to C. F. Boehringer & Soehne, Waldhof, Germany. Making theobromin	631,705	Aug. 22	3657	------	88	1496
Fischer, Emil, Berlin, assignor to C. F. Boehringer & Soehne, Waldhof, Germany. Oxypurin and making same	631,706	Aug. 22	3661	------	88	1497
Fischer, Emil, Berlin, assignor to C. F. Boehringer & Soehne, Waldhof, Germany. Xanthin derivatives and making same	631,707	Aug. 22	3668	------	88	1497
Fischer, Emil, Berlin, assignor to C. F. Boehringer & Soehne, Waldhof, Germany. Oxypurin and making same	631,708	Aug. 22	3671	------	88	1498
Fischer, Emil, Berlin, assignor to C. F. Boehringer & Soehne, Waldhof, Germany. Oxypurin and making same	631,709	Aug. 22	3675	------	88	1498
Fischer Equipment Company. (See Woods, Clinton E., assignor.)						
Fischer, Ernst, Barmen, Germany. Plate-printing machine	639,893	Dec. 26	3150	724	89	2538
Fischer, Frederick F., Pittsburg, Pa. Glass grinding and polishing machine	619,399	Feb. 14	1114	252	86	1047
Fischer, Frederick J. W., assignor to Eagle Pencil Company, New York, N. Y. Metallic pen	629,007	July 18	1980	462	88	422
Fischer, Georg, Boston, Mass. Child's carriage	623,308	Apr. 18	2059	472	87	431
Fischer, Otto, Harriman, Tenn. Rein	631,486	Aug. 22	3262	742	88	1417
Fischer, Robert, New York, N. Y. Metal-bending device	627,228	June 20	1864	409	87	2014
Fischer, Robert E., Barmen, Germany. Envelop-mucilating machine	629,348	July 25	2600	602, 603	88	559
Fischer, William E., *et al.* (See Wildermuth, Adolf, assignor.)						
Fischer, William E., Boston, Mass. Mechanism for channeling, feather-edging, and rounding machines	618,564	Jan. 31	3257	723	86	696
Fischer, William E., G. F. Kuett, and C. Fischer, Paterson, N. J. Tension for warp-threads	635,533	Oct. 24	2915	665	89	624
Fischhaber, Manfred, New York, N. Y. Automatic weighing and pricing machine	627,107	June 20	1659	362	87	1973
Fischhaber, Manfred, New York, N. Y. Hair-crimper	629,157	July 18	2259	523	88	477
Fish, George A., *et al.* (See Rubira, Luciano S., assignor.)						
Fish, Livingstone W., Eastport, Me. Refrigerator	621,645	Mar. 21	2039	455	86	1922
Fish, Walter C., Lynn, Mass., assignor to General Electric Company, of New York. Maximum-demand meter	631,289	Aug. 22	2907	657	88	1346
Fish, Walter C., Lynn, Mass., assignor to General Electric Company, of New York. Electric meter	631,290	Aug. 22	2909	658	88	1346
Fish, Walter C., and F. P. Cox, Lynn, Mass., assignors to General Electric Company, of New York. Prepayment electric fan-motor	619,293	Feb. 14	945	214	86	1013
Fishback, George W., Mount Carmel, Ohio. Hay rake and loader	635,958	Oct. 31	3719	860	89	792
Fishback, Georgia, Chicago, Ill. Skein-holder	634,235	Oct. 3	489	123	89	99
Fishel, Mark, New York, N. Y. Caster	627,108	June 20	1661	362	87	1974
Fisher, Albert, Bay City, Mich. Automatic tire-inflater	636,249	Nov. 7	38	9	89	932
Fisher, Alva J., Kansas City, Mo. Ladle for casting car-wheels	633,991	Oct. 3	17	4	89	6
Fisher, Basil J., Ashborough, N. C. Ornamental knob or end piece for cords, lines, and laces	626,374	June 6	310	72	87	1674
Fisher, Bevly A., Hamilton, Mont. Gate	633,549	Sept. 19	2528	593	88	2228
Fisher, Daniel, assignor to H. Merz, Jr., Baltimore, Md. Multiple-way spigot	628,783	July 11	1575	363	88	328
Fisher, Ernest M. (See D'Humy, Fernand E., assignor.)						
Fisher, Frank. (See Hubbell, Thomas J., assignor.)						
Fisher, Frederick A., assignor of three-fourths to W. B. Bangs, J. D. Adams, and H. A. Wippich, Provincetown, Mass. Bicycle attachment	620,115	Feb. 28	2426	548	86	1338
Fisher, George P., Jr., Chicago, Ill., and J. Reif, Jr., Hebron, Ind., assignors to Hercules Woodenware Company, Chicago, Ill. Woodenware package	622,339	Apr. 4	248	57	87	47
Fisher, George W., St. Louis, Mo. Cane-mill	638,629	Dec. 5	833	180, 181	89	2026
Fisher, Gideon, Lapps, Pa. Straw-stacker	621,237	Mar. 14	1307	289	86	1768
Fisher, Henry. (See Phillips, Eben B., assignor.)						
Fisher, Henry. (See Vacher, Ernest W., assignor.)						
Fisher, Henry B. (See Fisher, John W., assignor.)						
Fisher, Henry N. (See Ballou, George F., assignor.)						
Fisher, Isaac H., Washington, D. C. Combined concrete mixing, transporting, and dumping apparatus	624,200	May 2	466	98	87	789
Fisher, Isaac H., Washington, D. C. Apparatus for mixing concrete, mortar, &c.	631,782	Aug. 29	3828	853	88	1536
Fisher, James W., assignor of two-thirds to W. Johnson and R. M. Callison, Palouse, Wash. Harness-ring	620,543	Feb. 28	3171	726	86	1480
Fisher, John A., and F. Wesco, Elkhart, Ind. Roll for paper-making machines	622,340	Apr. 4	249	57	87	47
Fisher, John E., Frankfort, Ohio. Corn-harvester	637,378	Nov. 21	2239	482	89	1409
Fisher, John F., Atchison, Kans. Wind-wheel	622,420	Apr. 4	395	91	87	73
Fisher, John S., London, England. Trousers	620,435	Feb. 28	2972	681	86	1442
Fisher, John W., assignor of one-half to H. B. Fisher, New Philadelphia, Ohio. Washing-machine	634,812	Oct. 10	1537	361	89	321
Fisher, Nathan, Marshall, assignor of one-half to E. Stephenson, Dolson, Ill. Attachment for privy-seats	625,389	May 23	2616	595	87	1270
Fisher, Oliver W., Tomb's Run, Pa. Cigar-vending apparatus	628,656	July 11	1356	316, 317	88	282
Fisher, Robert J., Athens, Tenn. Skirt-hook	634,105	Oct. 3	226	57	89	49
Fisher, Robert J., Athens, Tenn., assignor to Fisher Typewriter Company, of Tennessee. Type-writing machine. (Reissue)	11,707	Jan. 3	854	200, 201	86	169
Fisher, Robert J., Athens, Tenn., assignor to Fisher Typewriter Company, of Tennessee. Type-writing-machine support	632,680	Sept. 5	891	207	88	1886
Fisher, Robert J., Athens, Tenn., assignor to Fisher Typewriter Company, of Tennessee. Type-writing machine	632,682	Sept. 5	897	208, 209	88	1887
Fisher, Robert J., Athens, Tenn., assignor to Fisher Typewriter Company, of Tennessee. Type-writing machine	637,749	Nov. 21	3274	683, 684	89	1652
Fisher, Robert J., and C. F. Laganke, Athens, Tenn., assignors to Fisher Typewriter Company, of Tennessee. Type-writing machine	632,681	Sept. 5	893	207, 208	88	1886
Fisher, Stephen, assignor to G. F. Spieth, Des Moines, Iowa. Duplex latch for doors of elevators	631,397	Aug. 22	3104	703	88	1385
Fisher Typewriter Company. (See Fisher, Robert J., assignor.)						
Fisher Typewriter Company. (See Fisher, Robert J., assignor.) (Reissue.)						
Fisher Typewriter Company. (See Fisher and Laganke, assignors.)						
Fisher, Walter S., Fredericton, Canada. Shoe-polishing bracket	636,326	Nov. 7	167	37	89	954
Fisher, William C., assignor to Russell Manufacturing Company, Middletown, Conn. Suspenders	633,973	Sept. 26	3301	769	88	2397
Fisk, Charles H., *et al.* (See Worthington, Henry S., assignor.)						
Fiske, John M., East Orange, N. J. Stall-drain	630,533	Aug. 8	1558	347	88	1039

Alphabetical list of patentees—Continued.

Name, residence, and invention.	No.	Date.	Monthly volume.		Official Gazette.	
			Spec.	Dr'g.	Vol.	Page.
Fiske, Jonathan P. B., Newton, Mass. Apparatus for handling bricks in manufacturing same	633,955	Sept. 26	3265	762 763	88	2390
Fiske, Joseph W. (See Hanna, William C., Jr., assignor.)						
Fissel, Edward L., Davisville, Cal. Extension-reel for harvesters	622,421	Apr. 4	396	91	87	73
Fitz, Amos G., Auburn, Me. Last-joint	632,994	Sept. 12	1473	343	88	2012
Fitch, Arden S., New York, N. Y. Grip for straight-pull guns	624,317	May 2	690	152	87	832
Fitch, Gilbert M., Beverly, N. J. Egg-beater	618,029	Jan. 17	2221	495	86	471
Fitch, Watson J., Boston, Mass. Rotary fan or paddle wheel	637,105	Nov. 14	1674	363	89	1282
Fitchie, Hugh, Elgin, Ill. Milk-strainer	622,919	Apr. 11	1329	306	87	271
Fite, Cephas V., assignor of one-half to R. H. Stowe, Mount Holly, N. C. Rotary engine	635,849	Oct. 31	3516	809	89	753
Fithian, Edwin J., Grove City, Pa. Gas-engine and means for governing same	626,155	May 30	4104	935 936	87	1571
Fitz, Amos G., Auburn, Me. Relasting-machine	622,845	Apr. 11	1198	279	87	247
Fitz, Amos G., Auburn, Me. Treeing-machine	626,828	June 13	1123	251	87	1849
Fitzgerald, Charles E., and G. Prescott, Dublin, Ireland. Preserving food	632,405	Sept. 5	353	80	88	1776
Fitzgerald, Edward E., assignor of one-half to Edward P. Allis Company, Milwaukee, Wis. Log-canter	623,002	Apr. 11	1469	339 340	87	299
Fitzgerald, Edward E., assignor of one-half to Edward P. Allis Company, Milwaukee, Wis. Band-saw mill	629,849	Aug. 1	172	40,41	88	755
Fitzgerald, John E., Boston, Mass. Hat-hanger	626,416	June 6	374	87	87	1686
Fitzgerald, John J., assignor to Fitzgerald Meat Tree Company, Chicago, Ill. Meat-tree	628,784	July 11	1577	364	88	328
Fitzgerald, John J., assignor to Fitzgerald Meat Tree Company, Chicago, Ill. Meat-tree or hanger for meat	629,105	July 18	2166	503	88	460
Fitzgerald, John J., assignor to Fitzgerald Meat Tree Company, Chicago, Ill. Meat-hanger	639,549	Dec. 19	2511	579	89	2393
Fitzgerald Meat Tree Company. (See Fitzgerald, John J., assignor.)						
Fitzgerald, Peter J., Boston, Mass. Incandescent vapor-lamp	629,068	July 18	2088	487	88	444
Fitzgerald, Peter J., Boston, Mass., assignor to W. F. Brown, Philadelphia, Pa. Incandescent gas-burner for hydrocarbon liquids	621,333	Mar. 21	1487	329	86	1816
Fitzgerald, Peter J., Boston, Mass., assignor to W. F. Brown, Philadelphia, Pa. Lighting attachment for lamps	621,334	Mar. 21	1488	330	86	1816
Fitzgerald, Richard. (See Hibbard, Maury W., assignor.)						
Fitzgerald, William, Indian Orchard, Mass. Composition of matter used in cleaning and polishing metals	621,053	Mar. 14	984		86	1703
Fitzjarrell, Leon, Baltimore, Md. Shoe-inflator	622,137	Mar. 28	2980	673	86	2121
Fitzpatrick, Isaac N., *et al.* (See Carr, George H., assignor.)						
Fitzpatrick, Thomas B., Newton, Mass. Waist	629,439	July 25	2765	642	88	595
Fitzpatrick, Thomas B., Newton, Mass. Waist	629,440	July 25	2766	642	88	595
Fitzroy, Alfred, New York, N. Y. Mechanical trimmer	626,829	June 13	1125	251	87	1849
Fitzsimons, Oscar S., assignor to Novelty Manufacturing Company, Waterbury, Conn. Towel-holder	619,948	Feb. 21	2121	480	86	1266
Fixen, Brigt B., Eola, Ill. Spring-bottom for beds, sofas, or the like	632,520	Sept. 5	572	132	88	1820
Fjellman, Robert, Wilmot, S. D., assignor of one-half to A. Parker, Brown Valley, Minn. Pipe-wrench	639,162	Dec. 12	1771	410	89	2232
Flack, Junius B., Pittsburg, Pa. Game	626,863	June 13	1218	269	87	1867
Flack, Theodore, *et al.* (See Betzold, Adolph, assignor.)						
Fladva, Henry O., assignor to Keystone Watch Case Company, Philadelphia, Pa. Pantograph engraving-machine	638,411	Dec. 5	432	89,90	89	1947
Flagg, Albert B., Hillsdale, Mich. Attachment for inkstands	635,309	Oct. 24	2460	572	89	534
Flagg Brothers Company. (See Flagg, Elisha, assignor.)						
Flagg Brothers Company. (See Nash, Ira A., assignor.)						
Flagg, Elisha, assignor to Flagg Brothers Company, New York, N. Y. Button-setting machine	620,544	Feb. 28	3172	727	86	1480
Flaherty, John, *et al.* (See Heavey, Bernard C., assignor.)						
Flaherty, John, Chicago, Ill. Furnace	635,469	Oct. 24	2811	642	89	605
Flakker, Fredrick W., Wheaton, Minn. Animal-trap	639,163	Dec. 12	1772	410	89	2232
Flanagen, James I., Philadelphia, Pa. Handle for washboilers, pails, &c	636,784	Nov. 14	1071	229	89	1165
Flanders, Herbert, assignor of one-half to C. E. Stearns, Manchester, N. H. Match-safe	625,442	May 23	2714	617	87	1288
Flanigan, John P. (See Verch, William H., assignor.)						
Flanigan, Joseph H., Town Creek, assignor of five-sixths to L. A. Carter, C. E. Albes, and O. Kyle, Decatur, Ala. Wrench	639,369	Dec. 19	2191	506	89	2330
Flashman, George F., Bangor, S. D. Detachable or knockdown bookcase	624,637	May 9	1267	283	87	967
Flather & Co. (See Flather, Joseph, assignor.)						
Flather, Herbert L., Nashua, N. H. Feed-reversing mechanism and stop-motion	617,567	Jan. 10	1350	304 305	86	282
Flather, Joseph, assignor of one-half to Flather & Co., Nashua, N. H. Swinging shelf for gears	635,013	Oct. 17	1893	450	89	410
Flather, Mark, Nashua, N. H. Driving mechanism for shapers and planers	636,127	Oct. 31	4084	935	89	865
Flattery, Walter J. (See Molle, Louis, assignor.)						
Flax Combing Syndicate. (See Burrows, Taylor, assignor.)						
Fleak, Robert F., Stuart, Iowa. Rotary pump	621,752	Mar. 21	2255	508	86	1964
Fleck, Christian, Ohligs, Germany. Kneading-machine	635,310	Oct. 24	2461	572	89	534
Fleetwood, John W., assignor of one-half to W. Adler, New Orleans, La. Filter	622,614	Apr. 4	767	178	87	146
Fleisch, Jacob H., New York, N. Y. Umbrella notch-joint	620,025	Feb. 21	2256	511	86	1291
Fleisher, Benjamin W. (See Battersby, James, assignor.)						
Fleming, Cly S., Monroe, La. Self-adjusting ratchet-wrench	636,511	Nov. 7	491	109	89	1021
Fleming, Hugh N., Erie, Pa. Hook for mail-catchers	622,341	Apr. 4	250	58	87	47
Fleming, James, Troy, N. Y. Rotary-clamp barrel-closure	622,615	Apr. 4	770	178	87	146
Fleming, John C., Philadelphia, Pa. Window-sash	620,293	Feb. 28	2733	626	86	1397
Fleming, John C., Philadelphia, Pa. Bicycle	620,294	Feb. 28	2735	627	86	1397
Fleming, John C., Philadelphia, Pa. Wheel for bicycles	620,295	Feb. 28	2736	627	86	1398
Fleming, John C., Philadelphia, Pa. Window-sash	620,296	Feb. 28	2738	627	86	1398
Fleming, John C., Philadelphia, Pa. Heating and ventilating apparatus for cars	633,824	Sept. 26	3035	705	88	2344
Fleming, John C., Philadelphia, Pa., assignor of one-third to A. J. Macdonald, New York, N. Y. Ventilator and air-purifier	633,823	Sept. 26	3033	705	88	2344
Fleming, John C., Philadelphia, Pa., assignor of one-third to A. J. Macdonald, New York, N. Y. Air-purifier for refrigerators	636,651	Nov. 7	759	166	89	1075
Fleming, John W., New York, N. Y. Flue-stopper	629,244	July 18	2399	555	88	501
Fleming, Richard, Lynn, Mass., assignor to General Electric Company, of New York. Constant-current transformer	637,773	Nov. 28	3323	695 696	89	1680
Fleming, William B., Detroit, Mich. Electric action for musical instruments	621,963	Mar. 28	2659	599 600	86	2056
Flentye, John H., St. Louis, Mo. Burglar-alarm	628,264	July 4	584	138	88	114
Flesher, Albert. and J. L. Crisler, Alert, Okla. Ter. Clothes-pin	626,894	June 13	1287	283	87	1881
Fleshiem, Joseph, *et al.* (See Wussow, William H., assignor.)						
Fletcher, Clyde W., Village Mills, Tex. Power-hammer	619,158	Feb. 7	697	149	86	948

Alphabetical list of patentees—Continued.

Name, residence, and invention.	No.	Date.	Monthly volume. Spec.	Monthly volume. Dr'g.	Official Gazette. Vol.	Official Gazette. Page.
Fletcher, Daniel A., Dayton, Ohio. Pool-table	620,026	Feb. 21	2258	512	86	1291
Fletcher, Donald, New York, N. Y. Steamboat	624,318	May 2	691	152	87	833
Fletcher, Evelyn A., Toronto, Canada. Musical-scale ladder	619,294	Feb. 14	947	215	86	1014
Fletcher, Frank F., U. S. Navy. Breech mechanism for quick-firing guns	627,913	June 27	3158	691, 692	87	2290
Fletcher, Frank F., Washington, D. C. Breech mechanism for rapid-fire guns	629,673	July 25	3195	744, 745	88	677
Fletcher, John R., Dayton, Ohio. Means for supporting and bracing yard-arms for arc-lamps, &c.	636,327	Nov. 7	168	37	89	955
Fletcher, John W., Tocopilla, Chile. Pipe-cutting tool	628,403	July 4	847	199	88	162
Fletcher, Silas W., Lowell, Mass. Trolley-wheel	622,214	Apr. 4	32	8	87	9
Fletcher, Walter, Nottingham, assignor to Angular Hole Machine Company, Limited, London, England. Machine for drilling, boring, or shaping	628,703	July 11	1438	334	88	299
Fletcher, Westley H. (See Rollason, Fletcher, and Rollason.)						
Flett, James J., Corvallis, Oreg. Perforating-machine	620,436	Feb. 28	2973	681	86	1442
Fleuss, Henry A., London, Englaud. Freezing-machine	618,934	Feb. 7	230	52	86	848
Fleuss, Henry A., London, England. Air and gas pump	620,763	Mar. 7	424	87	86	1584
Flicek, Edward, assignor of one-half to E. F. Buergermeister, Milwaukee, Wis. Adjustable garment-clasp	637,331	Nov. 21	2149	463	89	1390
Flick, George S., *et al.* (See Cook, James C., assignor.)						
Flick, Robert J., Salem, Ohio, and E. Franklin, Lincoln, Nebr. Wire-stretcher	634,236	Oct. 3	491	123	89	99
Flickinger, Aaron E. (See Danalds and Flickinger.)						
Flickinger, Frank. (See Unkrich, Frederick, assignor.)						
Fliegenschmidt, Carl, Indianapolis, Ind. Fruit-picker	626,058	May 30	3890	883	87	1532
Flindall, John, Chicago, Ill. Sink-board	629,784	Aug. 1	42	11	88	729
Fliuner, John, Standish, Kans. Conductor's magnetic check-holder	628,932	July 18	1855	430	88	398
Flint, Arthur J. (See Gillette and Flint.)						
Flockhart, James, and D. F. Keogh, Denver, Colo. Stop and waste cock	618,792	Jan. 31	3650	816	86	774
Flodquist, Carl F., New York, N. Y. Armor-plate	619,295	Feb. 14	949	215	86	1014
Flomerfelt, James A., and L. A. W. Lund, New York, N. Y.; said Lund assignor to said Flomerfelt. Retainer for neckwear	633,581	Sept. 26	2624	614	88	2262
Florence, William G., and A. B. Trembley, Newark, N. J. Reversible rotary engine	627,332	June 20	2063	454, 455	87	2055
Flores, Emery A. (See Guynes and Flores.)						
Florin, Albert, Berlin, Germany. Device for connecting tubes	635,534	Oct. 24	2917	666	89	624
Flory, Samuel, and A. A. Bruch, Bangor, Pa. Excavating apparatus	622,422	Apr. 4	397	92	87	73
Flower, Thomas M., Bridgeton, N. J., assignor, by mesne assignments, to S. Jones, trustee, Scranton, Pa. Collapsible core for manufacturing glass conduits	635,311	Oct. 24	2462	572, 573	89	535
Flower, Walter L. (See Pickles, Charles K., assignor.)						
Flowers, Benjamin F. (See Kinnaman and Flowers.) (Reissue.)						
Flowers, Benjamin F., Fort Collins, Colo. Bell door-knob	624,436	May 2	894	202	87	873
Flowers, Benjamin F., Bellvue, Colo. Combination door knob and bell	627,956	June 27	3234	709	87	2305
Floyd, Charles M., Auburn, Ala. Combined planter and fertilizer-distributer	632,179	Aug. 29	4551	1026	88	1678
Floyd, Francis M., Centralia, Ill. Lifting-jack	640,120	Dec. 26	3563	819	89	2624
Flueso, Emil. (See Dillenbeck and Flueso.)						
Flügge, Adolf. (See Heimsoth and Flügge.)						
Flynn, John H., *et al.* (See McKam, Lawrance G., assignor.)						
Flynn, John H., Cincinnati, Ohio. Guide-pulley	629,899	Aug. 1	282	64	88	776
Flynn, Michael L., and J. A. Sherman, St. Thomas, Canada. Hinged coupling for locomotives	638,231	Dec. 5	42	11	89	1875
Flynn, Peter H., New York, N. Y. Druggist's bottle-forceps	619,949	Feb. 21	2122	480	86	1266
Flynn, Thomas P., St. Cloud, Minn. Cartridge-loading machine	629,029	July 18	2018	470	88	430
Foehl, Charles. (See Kolb and Foehl.)						
Fogal, John E. W., assignor of one-half to J. C. Dussair and H. B. Dines, Quincy, Ill. Elevator-gate	619,400	Feb. 14	1117	252, 253	86	1047
Fogal, John E. W., assignor of one-half to H. B. Dines and J. C. Dussair, Quincy, Ill. Elevator-gate	631,848	Aug. 29	3935	880	88	1558
Fogarty, John J., assignor of one-half to J. W. Trainer, New York, N. Y. Safety-guard for watches	630,208	Aug. 1	883	191	88	897
Fogg, Charles H., Hyde Park, Mass., assignor to J. W. and J. Brooks, trustees. Blank-feeding device	629,441	July 25	2767	642, 643	88	595
Fogg, Charles H., Hyde Park, Mass., assignor, by mesne assignments, to McKay Shoe Machinery Company, of Maine. Heel-compressing machine	638,664	Dec. 5	886	194, 195	89	2038
Fogg, James. (See Gillett and Fogg.)						
Foggitt, John H. (See Camehl and Foggitt.)						
Foglesong, Washington, Dayton, Ohio. Power-hammer	630,041	Aug. 1	596	130	88	841
Foidart, Mathieu, Brussels, Belgium. Ball-bearing	626,274	June 6	98	25	87	1633
Foidart, Mathieu, Brussels, Belgium. Roller-bearing	639,720	Dec. 26	2835	653	89	2477
Foidart, Mathieu, Brussels, Belgium. Ball-bearing	639,807	Dec. 26	3002	691	89	2511
Foley, John J. (See Crouse and Foley.)						
Foley, Michael F. X., Philadelphia, assignor of one-half to C. A. Wanner, Melrose, Pa. Steel clip or hanger for ceilings	629,674	July 25	3199	745	88	678
Folger, Harry S., Chicago, Ill. Rack for rubber stamps	624,919	May 16	1782	402	87	1087
Folks, Joseph J., Levy county, Fla. Tire-tightener	633,825	Sept. 26	3038	705	88	2345
Follansbee, Alfred S., Milwaukee, Wis. Placket-closer	618,857	Feb. 7	71	15	86	818
Folliott, James H., assignor of one-half to C. B. Fraser, Chicago, Ill. Churn	617,502	Jan. 10	1213	276	86	256
Folmer & Schwing Manufacturing Company. (See Folmer, William F., assignor.)						
Folmer, William F., assignor to Folmer & Schwing Manufacturing Company, New York, N. Y. Magazine plate-holder	631,249	Aug. 15	2830	638	88	1314
Fölsche, Rudolf, Halle-on-the-Saale, Germany. Apparatus for elevating grain, &c.	619,882	Feb. 21	2017	458, 459	86	1246
Folsom, William B., Salt Lake City, Utah. Crushing and pulverizing machine	637,076	Nov. 14	1628	352	89	1274
Foltz, Henry C., Hagerstown, Md. Water-trough	623,208	Apr. 18	1877	430	87	394
Foltz, John B. (See Ernest, John C., assignor.)						
Fonda, Charles T., Wheatland, Mo. Rotary engine	625,328	May 23	2520	573	87	1252
Fondu, Jean B., Brussels, Belgium. Manufacture of tumblers, glasses, or vases, &c.	622,457	Apr. 4	459	106, 107, 108, 109	87	85
Fondu, Jean B., Brussels, Belgium. Manufacture of glass tumblers	622,458	Apr. 4	467	109, 110	87	86
Fondu, Jean B., Brussels, Belgium. Manufacture of glass tumblers	625,547	May 23	2891	657, 658	87	1324
Fondu, Jean B., Brussels, Belgium. Manufacture of glass tumblers	625,548	May 23	2895	658	87	1325
Fondu, Jean B., Brussels, Belgium. Manufacture of glass tumblers	626,895	June 13	1288	286	87	1881

Alphabetical list of patentees—Continued.

Name, residence, and invention.	No.	Date.	Monthly volume.		Official Gazette.	
			Spec.	Drg.	Vol.	Page.
Fontaine, Ernest H. (See Miller, Andrew H., assignor.)						
Foods Enrichment Syndicate. (See Watson, Edwin B., assignor.)						
Fooks, Nelson H., Preston, Md. Preserving berries	636,250	Nov. 7	41	10	89	933
Foos Manufacturing Company. (See Winchell, James F., assignor.)						
Foot, James D. (See Bailey, Henry C., assignor.)						
Foote, Charles H. (See Holmboe, Leonhard C. B., assignor.)						
Foote, James B., assignor to Combination Wrench and Jack Company, Cleveland, Ohio. Harness-riveting device	625,751	May 30	3257	739	87	1413
Foote, Richard R., *et al.* (See Walter, John, assignor.)						
Foote, Theodore M., assignor of one-half to C. H. Seeberger, Chicago, Ill. Electric-arc lamp	632,707	Sept. 12	953	221	88	1910
Foote, William L., New York, N. Y. Tire for bicycles	621,451	Mar. 21	1689	374	86	1853
Forbes, Charles, assignor, by mesne assignments, to Sanitary Communion Outfit Company, Rochester, N. Y. Chalice-holder	623,468	Apr. 18	2337	536	87	488
Forbes, Charles, assignor, by mesne assignments, to Sanitary Communion Outfit Company, Rochester, N. Y. Chalice-holder	624,605	May 2	97	20	87	721
Forbes, Charles S., Strathdon, Scotland. Acetylene-gas-generating lamp	617,730	Jan. 17	1652	372	86	361
Forbes, Charles S., Strathdon, Scotland. Acetylene-gas generator	622,616	Apr. 4	772	179	87	147
Forbes, Edward P., Hartford, Conn. Speed regulating or controlling device for elevators	635,679	Oct. 24	3178	732	89	674
Forbes, Ferry M., Milford, assignor of one-half to T. W. Common, Mount Clemens, Mich. Bed attachment for invalids	618,407	Jan. 31	2981	661	86	645
Forbes, John, Plainwell, Mich. Gate	636,251	Nov. 7	42	10	89	933
Forbes, John M., and F. H. Beer, New York, N. Y. Shoe-stretcher	620,843	Mar. 7	573	124	86	1615
Forbes, John S. (See Waterhouse and Forbes.)						
Forbes, Joseph N., Cromanton, Fla. Motor-vehicle	624,319	May 2	693	153	87	833
Forbush, Silas A., Grafton, Mass. Insole	621,238	Mar. 14	1309	290	86	1769
Force, Edgar J., assignor of one-fourth to W. H. Hoople, New York, N. Y. Curtain or portière pole ring and fastening	618,005	Jan. 17	2173	485	86	462
Force, James B., Washington, D. C. Type-writer attachment	627,180	June 20	1780	390	87	1998
Force, William C., North Plainfield, N. J. Tool-holder	630,876	Aug. 15	2144	487	88	1178
Forcier, Joseph J., Bay City, Mich. Shut-off for hose	636,971	Nov. 14	1424	305	89	1234
Forcke, Carl, and N. Frings, Hanover, Germany. Machine for covering confectionery with chocolate	633,186	Sept. 19	1854	437	88	2099
Ford, Bruce, Johnstown, Pa., assignor, by mesne assignments, to Lorain Steel Company, of Ohio. Insulating compound	621,807	Mar. 28	2362	------	86	1999
Ford, Edward. (See Ferriott, Charles L., assignor.)						
Ford, Edward, Wyandotte, Mich. Glass-furnace	629,557	July 25	2988	698, 699	88	637
Ford, Edwin H., Hartford City, Ind., assignor of one-half to A. L. Holmes, Grand Rapids, Mich. Meter-box	633,187	Sept. 19	1859	438	88	2099
Ford, Eliot E., Rahway, assignor to H. Johnson, Arlington, N. J. Semaphore-blade	619,472	Feb. 14	1241	283	86	1071
Ford, Emma A., San Francisco, assignor of one-half to A. D. Newman, Oakland, Cal. Combined corset and abdominal supporter	617,731	Jan. 17	1654	372	86	362
Ford, George E., Guthrie, Okla. Ter. Vending-machine	636,652	Nov. 7	761	166, 167	89	1075
Ford, Hannibal C., Cortland, N. Y. Bicycle-lock	636,128	Oct. 31	4086	935	89	866
Ford, Herman C., *et al.* (See Barber, Arthur J., assignor.)						
Ford, James T., Galveston, Tex. Dredge for hard or soft mud	626,491	June 6	503	117, 118	87	1711
Ford, Jason P. (See Adams, Andrew J., assignor.)						
Ford, John C., Macon, Mo. Scissors or shears	631,111	Aug. 15	2586	584	88	1264
Ford, Joseph H., Boston, Mass. Holder for feather dusters	625,752	May 30	3258	739	87	1413
Ford, Lewis P. (See Barber, Thomas W., assignor.)						
Ford, Maximillian, and G. B. Starr, assignors of one-tenth to T. H. Bates, San Francisco, Cal. Boot or shoe heel	621,914	Mar. 28	2569	579	86	2039
Ford, Samuel M., Flora, Ill. Axle-nut	622,764	Apr. 11	1047	243	87	219
Ford, Thomas P., New York, N. Y. Pump-governor	624,779	May 9	1515	345	87	1018
Ford, William J., Columbia, Miss. Insecticide	633,509	Sept. 19	2454	------	88	2215
Fordyce, Edmond A., Chicago, Ill. Pneumatic-despatch-tube system	624,201	May 2	469	98, 99	87	790
Fordyce, Edmond A., Chicago, Ill. Pneumatic-carrier system	624,202	May 2	471	99, 100, 101	87	790
Fordyce, Edmond A., Chicago, Ill. Carrier for pneumatic-despatch tubes	627,181	June 20	1782	391	87	1998
Fordyce, Edmond A., Chicago, Ill. Terminal for pneumatic-despatch-tube systems	635,434	Oct. 24	2745	629	89	590
Foreaker, John C., assignor of one-half to J. T. Morrow, Joplin, Mo. Combined fan and churn	630,877	Aug. 15	2146	487	88	1179
Foreign Chemical and Electrolytic Syndicate. (See Baynes, Henry K., assignor.)						
Foreman, Amos L., Wilmerding, Pa. Milk-can top and lid	640,121	Dec. 26	3564	819	89	2624
Foreman, Amos L., Wilmerding, Pa. Apparatus for cooling and aerating milk	640,122	Dec. 26	3565	820	89	2625
Foreman, David. Strout, Ill. Trace-buckle	630,878	Aug. 15	2147	487	88	1179
Forest, William E., Los Angeles, Cal. Oil-storage can	633,441	Sept. 19	2346	553	88	2194
Forester, Herbert C. B., Sketty, near Swansea, assignor to Patent Aggloment Fuel Syndicate, Limited, Swansea, England. Apparatus for manufacturing and pressing artificial fuel	630,676	Aug. 8	1807	407, 408	88	1087
Forester, Herbert C. B., Sketty, near Swansea, assignor to Patent Aggloment Fuel Syndicate, Limited, Swansea, England. Artificial fuel	630,677	Aug. 8	1811	------	88	1088
Forgham, Thomas. (See Simmons, Forgham, and Bennett.)						
Forin, Alexander, Nelson, Canada. Sash-fastener	639,164	Dec. 12	1773	410	89	2232
Forister, John H., Tow, Tex. Combined corn and cotton-seed planter and cultivator	619,740	Feb. 21	1743	398	86	1193
Fornander, Alfred, assignor to G. M. Hayner, New York, N. Y. Cigar-tip cutter	630,534	Aug. 8	1560	348	88	1040
Forney, John M., Nisbet, assignor of one-half to J. R. Hanna, Spring Mills, Pa. Combined bolt and lock	622,676	Apr. 11	903	207	87	191
Forney, Matthias N., New York, N. Y. Feed-water heater for steam-boilers	632,708	Sept. 12	956	222	88	1910
Forrest, Alfred B., Greenleaf, Kans. Fly-trap	627,109	June 20	1662	363	87	1974
Forrest, Horatio F., Brandon, Canada. Telephone desk and register	621,054	Mar. 14	984	214	86	1703
Forrester, Peter C., Spring Valley, Ill. Drill	628,404	July 4	848	199	88	162
Forsberg, John C., Willmar, Minn. Curling-tongs heater	636,785	Nov. 14	1072	229	89	1165
Forster, Frederick W., Philadelphia, Pa. Air-tight lid	616,910	Jan. 3	85	17	86	18
Forster, Henry, New York, N. Y. Insertible tooth for diamond saws	626,533	June 6	577	134	87	1726
Forster, John J., and R. L. Murdock, Avalon, Pa. Soap-press	638,453	Dec. 5	511	105, 106	89	1965
Forster, John J., and R. L. Murdock, Avalon, assignors of one-fourth to J. H. Wilson, Pittsburg, Pa. Soap-press	638,452	Dec. 5	509	103, 104	89	1965
Forster, Samuel S., Schenectady, N. Y., assignor to General Electric Company, of New York. Dynamo-electric machine	619,296	Feb. 14	949	215	86	1014
Forster, Thomas W., Detroit, Mich. Metallic vessel	620,235	Feb. 28	2633	600	86	1376

Alphabetical list of patentees—Continued.

Name, residence, and invention.	No.	Date.	Monthly volume.		Official Gazette.	
			Spec.	Dr'g.	Vol.	Page.
Forster, Thomas W., Detroit, Mich. Milk-can	620,236	Feb. 28	2634	600	86	1376
Forster, William E., Lynn, Mass. Fire-extinguisher	626,683	June 13	848	193	87	1798
Forsythe, Albert H., Sarcoxie, Mo. Thill-coupling	633,442	Sept. 19	2348	554	88	2195
Forsyth Brothers Company. (See Forsyth, George H., assignor.)						
Forsyth, Charles E., assignor of three-fourths to P. F. Haas, S. G. Tibbs, and G. Hartman, Akron, Ohio. Rotary engine	638,570	Dec. 5	716	152	89	2003
Forsyth, George H., assignor to Forsyth Brothers Company, Chicago, Ill. Curtain-fixture	625,753	May 30	3259	739	87	1414
Forsyth, James B., Boston, Mass. Valve for endless tubing for tires	622,888	Apr. 11	1279	295	87	262
Forsyth, James B., Boston, Mass. Sheet material for packing, matting, &c	622,889	Apr. 11	1280	295	87	262
Forsyth, John D., assignor of one-half to G. M. Brodie, Claremont, Canada. Acetylene-gas generator	624,203	May 2	476	102	87	791
Forsyth, Joseph E., assignor to J. E. Forsyth Company, Chicago, Ill. Automatic train-pipe coupling	618,081	Jan. 24	2341	523 524	86	509
Forsyth, Joseph E., assignor to J. E. Forsyth Company, Chicago, Ill. Automatic train-pipe coupling	619,401	Feb. 14	1119	253	86	1048
Forsyth, Philo G., *et al.* (See Farmer, Frank H., assignor.)						
Forsyth, Wilber D., and E. T. Bell, Pittsburg, Pa. Boiler-tube cleaner	634,406	Oct. 3	824	199	89	165
Forsyth, Wilber D., and E. T. Bell, assignors to Union Boiler Tube Cleaner Company, Pittsburg, Pa. Boiler-tube cleaner	617,327	Jan. 10	896	208	86	194
Forsyth, Wilber D., and E. T. Bell, assignors to Union Boiler Tube Cleaner Company, Pittsburg, Pa. Boiler-tube cleaner	617,439	Jan. 10	1119	255	86	236
Forsyth, Wilber D., and E. T. Bell, assignors to Union Boiler Tube Cleaner Company, Pittsburg, Pa. Boiler-tube cleaner	636,129	Oct. 31	4088	936	89	866
Forsyth, Wilber D., and E. T. Bell, assignors to Union Boiler Tube Cleaner Company, Pittsburg, Pa. Machine for operating boiler-tube cleaners	637,774	Nov. 28	3326	696	89	1680
Forsyth, Wilber D., and E. T. Bell, assignors to Union Boiler Tube Cleaner Company, Pittsburg, Pa. Mechanism for operating boiler-tube cleaners	638,630	Dec. 5	836	181	89	2026
Forsyth, William H. (See Duner, John C., assignor.)						
Forsyth, William O., Trinidad, Colo. Umbrella-top protector	620,764	Mar. 7	425	88	86	1584
Fort Dearborn Iron Company. (See Hoon, John M., assignor.)						
Fort Dearborn Iron Company. (See McDowell, Malcolm, assignor.)						
Fort Wayne Smelting and Refining Works. (See Goldberger, Maurice, assignor.)						
Fortier, Charles L. (See Schneider, Anton and A., assignors.)						
Fortier, Charles L., Milwaukee, Wis. Electric exercising apparatus	638,232	Dec. 5	44	12	89	1876
Fortin, Edouard. (See Masson and Fortin.)						
Fortiner, John C., assignor of one-half to T. W. Harvey, Jr., Chicago, Ill. Bolster for railway-cars	638,105	Nov. 28	3969	834	89	1808
Forwood, Reginald, Paris, Tex. Car-fender	631,933	Aug. 29	4073	914	88	1585
Fosburgh, Calvin E., New York, N. Y., assignor of one-half to E. C. Fosburgh, Norfolk, Va. Wearing-apparel	629,900	Aug. 1	283	64	88	776
Fosburgh, Edgar C. (See Fosburgh, Calvin E., assignor.)						
Fosby, Charles, Rutherford, N. J. Lathe-tool	619,159	Feb. 7	698	150	86	948
Fosby, Charles, Rutherford, N. J. Saw	621,915	Mar. 28	2569	579	86	2040
Foss, Byron E., assignor to himself and F. K. Rittenhouse, Chicago, Ill. Shaft-bearing	632,995	Sept. 12	1475	343	88	2013
Fossum, Andrew R., Cottonwood, Minn. Cigar-cutter and match-safe	617,732	Jan. 17	1655	372	86	362
Foster, Albert W., Chicago, Ill. Power-transmitting device	632,455	Sept. 5	450	101	88	1796
Foster, Albion W., assignor of one-half to J. Wyman, Millbridge, Me. Device for applying wall-paper	630,678	Aug. 8	1813	408	88	1088
Foster, Charles E., Washington, D. C., assignor to Otis Elevator Company, East Orange, N. J. Controlling device for elevators	630,042	Aug. 1	597	130	88	842
Foster, Charles H., Elizabeth, N. J., assignor to Singer Manufacturing Company, of New Jersey. Sewing-machine trimmer	630,209	Aug. 1	884	191	88	897
Foster, Charles H., Elizabeth, N. J., assignor to Singer Manufacturing Company, of New Jersey. Hemstitch sewing-machine	634,208	Oct. 3	420	107 108	89	87
Foster, Charles I., assignor of one-half to G. A. Foster, Meriden, Conn. Bee-feeder	623,360	Apr. 18	2154	495	87	449
Foster Engineering Company. (See Cash, Arthur W., assignor.)						
Foster, Ephraim A., Port Clinton, Ohio. Non-refillable bottle	624,780	May 9	1516	345	87	1018
Foster, Frank H., New York, N. Y. Mechanism for starting, stopping, and reversing direction of motion of electric motors and for controlling speed of same	626,020	May 30	3816	867 868	87	1520
Foster, Frank M., Cambridge, assignor to Reversible Collar Company, Boston, Mass. Attachment for calendering-machines	631,783	Aug. 29	3833	854	88	1538
Foster, Frederick D., Jersey City, N. J., assignor to American Computing Scale Company, New York, N. Y. Computing-scale	627,405	June 20	2232	492	87	2087
Foster, Frederick D., Jersey City, N. J., assignor to American Computing Scale Company, New York, N. Y. Computing-scale	627,406	June 20	2235	492 493	87	2088
Foster, George A. (See Foster, Charles I., assignor.)						
Foster, James, Glasgow, Scotland. Apparatus for concentrating crude glycerin solutions	638,571	Dec. 5	718	153	89	2004
Foster, James D., Chattanooga, Tenn. Bow-facing oar attachment	636,653	Nov. 7	767	167	89	1077
Foster, James G., *et al.* (See Moore, Thomas W., assignor.)						
Foster, John O., Newark, N. J. Manifolding-sheet	627,229	June 20	1865	409	87	2014
Foster Pump Works. (See Foster, William, assignor.)						
Foster, Robert F., New York, N. Y., assignor of one-half to C. A. Hamilton, Ridgefield, Conn. Method of and apparatus for signaling	617,856	Jan. 17	1906	427	86	411
Foster, Samuel L., assignor to Market Street Railway Company, San Francisco, Cal. Electrically-operated switch mechanism	637,960	Nov. 28	3675	772	89	1752
Foster, Stephen A., Toledo, Ohio. Car-seal	618,500	Jan. 31	3145	695	86	675
Foster, Steve M., *et al.* (See Beever and McCoy, assignors.)						
Foster, William, assignor to Foster Pump Works, New York, N. Y. Automatic trap and pump-regulator	630,043	Aug. 1	599	131	88	842
Foster, William S., Utica, N. Y. Cot	639,027	Dec. 12	1550	356	89	2188
Foster, William S., assignor of two-thirds to J. U. and A. F. Torkilson, Chicago, Ill. Machine for cutting caramels, &c	629,785	Aug. 1	43	11, 12	88	729
Foster, William S., assignor to himself and H. Hill, Chicago, Ill. Candy-cleaning machine	630,336	Aug. 8	1142	250	88	963
Fouché, Edmond, Paris, France. Means for localizing explosions in gas-mains	619,552	Feb. 14	1374	316	86	1098
Fougerat, Charles, Lyons, France. Apparatus for producing successively-changing pictures or advertisements	617,244	Jan. 3	723	168	86	141
Foulds, Henry M., Nottingham, England. Knitting-machine	621,239	Mar. 14	1310	290	86	1769
Foulk, Horace M. (See Braisher and Foulk.)						
Foulke, Amelia R., New York, N. Y. Skirt fastening and supporting device	632,920	Sept. 12	1357	313	88	1989
Foulke, Frank V., assignor to J. D. W. Swendsen and L. H. Foulke, Erie, Pa. Churn	634,553	Oct. 10	1093	259	89	235
Foulke, Luther H., *et al.* (See Foulke, Frank V., assignor.)						
Foulon, Peter J., New York, N. Y. Apparatus for forming gelatin tubes	634,449	Oct. 10	907	218	89	198
Fournier, B. O. (See Rhino, John, assignor.)						
Fournier, Eugène, Paris, France. Apparatus for use in sterilizing, disinfecting, &c	620,437	Feb. 28	2975	682	86	1442

Alphabetical list of patentees—Continued.

Name, residence, and invention.	No.	Date.	Monthly volume.		Official Gazette.	
			Spec.	Dr'g.	Vol.	Page.
Fournier, Eugene, Chicago, Ill. Air mattress or cushion	624,638	May 9	1268	283	87	968
Fournier, Joseph H., assignor of two-thirds to E. J. Gray and E. Joslin, Whitehall, N. Y. Steam-generator	619,160	Feb. 7	700	150	86	948
Fournier, Louis E., and S. E. Winder, Evansville, Ind. Checking or unchecking device	626,323	June 6	199	49	87	1651
Foust, Robert N., Johnstown, Pa. Removable handle for crocks, &c	636,399	Nov. 7	288	65	89	979
Foust, Theodore L., Greenfield, Ind. Music-leaf turner	637,504	Nov. 21	2458	534	89	1451
Fout, Marshall, *et al.* (See Martz, Randolph N., assignor.)						
Fouts, George S., San Francisco, Cal. Cable-grip	620,438	Feb. 28	2978	682	86	1443
Fowble, Otis E., Los Angeles, Cal., assignor of one-half to C. C. McLean, Philadelphia, Pa. Finger shield or protector	617,929	Jan. 17	2050	459	86	440
Fowle, Leonard I., Rudd, Iowa. Harrow	628,785	July 11	1579	364	88	329
Fowler, Alfred B., and G. E. Warren, Pawtucket, R. I. Shoe-sewing machine	634,850	Oct. 10	1607	377 378	89	336
Fowler, Allen, and A. J. Harpole, Union City, Tenn. Apparatus for compressing, sterilizing, and purifying air	631,868	Aug. 29	3965	887	88	1565
Fowler, Arthur H., and E. G. Budd, Philadelphia, Pa., assignors to Fowler & Wolfe Manufacturing Company, of Pennsylvania. Boring and tapping machine	621,335	Mar. 21	1489	330	86	1816
Fowler, Byron J., Westfield, Mass. Cider-press	631,567	Aug. 22	3430	775	88	1450
Fowler, Charles M., *et al.* (See Wellington, Frank E., assignor.)						
Fowler, Charles N. (See Carpenter, Benjamin F., assignor.)						
Fowler, Charles S., *et al.* (See Butler, Howard H., assignor.)						
Fowler, Edwin, Kansas City, Kans. Paper-file	639,721	Dec. 26	2835	654	89	2477
Fowler, Eugene, Laurel, Del. Bicycle-support	635,435	Oct. 24	2750	629	89	591
Fowler, Frank, assignor of three-fourths to G. D. Bromley, Philadelphia, Pa. Jacquard mechanism for looms	625,297	May 16	2452	557	87	1212
Fowler, Frank G., Bridgeport, Conn. Shaving-lather	638,804	Dec. 12	1162	259	89	2113
Fowler, George H., Taughannock Falls, assignor to Taughannock Emery Wheel Co., Cortland, N. Y. Mower-knife grinder	629,069	July 18	2090	487	88	444
Fowler, Henry C., *et al.* (See Kinney, John L., assignor.)						
Fowler, Henry C., Burlington, assignor of one-half to E. C. Holt, Wilmington, N. C. Bobbin-latch	634,662	Oct. 10	1276	301	89	272
Fowler, John H., Huntingdon, Pa. Jar-closure	619,950	Feb. 21	2124	481	86	1266
Fowler, John H., Huntingdon, Pa. Jar	632,456	Sept. 5	453	101	88	1796
Fowler, Lewis J., Lincoln, Nebr. Revolving refrigerator	630,044	Aug. 1	600	131	88	842
Fowler, Samuel B., New York, N. Y. Annunciator	620,577	Mar. 7	45	9	86	1511
Fowler, Samuel B., Tarrytown, N. Y. Telephone system	632,709	Sept. 12	962	223	88	1912
Fowler, Simon A., Burlington, N. C., assignor to Fairmount Machine Company, of Pennsylvania. Apparatus for marking warp or other yarns	618,656	Jan. 31	3425	763	86	729
Fowler, William M., Stamford, Conn. Liquid-meter	619,473	Feb. 14	1242	283	86	1071
Fowler, William M., Stamford, Conn. Bottle-filling machine	619,474	Feb. 14	1243	284	86	1071
Fowler & Wolfe Manufacturing Company. (See Fowler and Budd, assignors.)						
Fowley, James, Cobden, Ill. Hoop-machine	632,107	Aug. 29	4410	990 991	88	1651
Fox, Arthur J., assignor to Convertible Billiard Table Company, Bristol, England. Convertible billiard and dining table	635,014	Oct. 17	1894	450	89	410
Fox, Bonham M. (See Locklin and Fox.)						
Fox, Charles H., Cincinnati, Ohio. Water-heater	633,644	Sept. 26	2733	636	88	2282
Fox, Edward B., *et al.* (See Prentice, Charles F., assignor.)						
Fox, Ernest L., assignor of one-half to F. L. Miller, Springfield, Mass. Nipple-holder	619,553	Feb. 14	1375	316	86	1098
Fox, George, 2d, assignor of one-half to G. F. Reckhart, New York, N. Y. Safety attachment for elevators	622,945	Apr. 11	1371	315	87	280
Fox, George H., Bangor, Me. Mold	619,554	Feb. 14	1376	317	86	1098
Fox, John C., and M. W. Meredith, Allegheny, Pa. Adjustable saw-guide	638,049	Nov. 28	3847	808	89	1785
Fox, John H., New York, N. Y. Siphon-filling apparatus	632,521	Sept. 5	573	132	88	1820
Fox, Joshua D., Frankfort, Ind. Animal pen or trap	629,675	July 25	3200	746	88	678
Fox Machine Company. (See Fox, William R., assignor.)						
Fox Machine Company. (See Fox and Barrett, assignors.)						
Fox, Mary E., Baltimore, Md. Covered ironing-board	631,364	Aug. 22	3041	689	88	1373
Fox Pressed Steel Equipment Company. (See Rapley, Frederick H., assignor.)						
Fox, Walter E., Chicago, Ill. Game	632,406	Sept. 5	354	81	88	1776
Fox, William H. (See Piper and Fox.)						
Fox, William R., assignor to Fox Machine Company, Grand Rapids, Mich. Machine for applying nipple-washers to bicycle-rims	636,654	Nov. 7	768	167 168	89	1077
Fox, William R., assignor to Fox Machine Company, Grand Rapids, Mich. Machine for forming nipple-washers	636,655	Nov. 7	772	168 169	89	1078
Fox, William R., and G. J. Barrett, assignors to Fox Machine Company, Grand Rapids, Mich. Electrically-operated type-writer	633,826	Sept. 26	3039	706	88	2345
Fox, William R., and G. J. Barrett, assignors to Fox Machine Company, Grand Rapids, Mich. Type-writing machine	633,827	Sept. 26	3041	706 707	88	2346
Foy, Thomas, Freehold, N. J. Lock	631,784	Aug. 29	3835	854	88	1538
Foye, Stanton M., *et al.* (See Gibbs, Harry T., assignor.)						
Frampton, Eli, Manchester, England. Apparatus for forming curved mortises in ends of bamboos or other round rods	627,916	June 27	3166	693	87	2292
Franc, Emil, London, England. Apparatus for bottling and corking	625,665	May 23	3091	703	87	1363
France, Adam W., Philadelphia, Pa. Piston or valve rod packing	636,512	Nov. 7	492	110	89	1021
France, Adam W., Philadelphia, Pa. Making sectional packing-rings	639,722	Dec. 26	2838	654	89	2478
France, Joseph R., assignor to Arlington Manufacturing Company, New York, N. Y. Pyroxylin imitation of mosaic and manufacturing same	619,037	Feb. 7	457	96	86	899
Francfort, Alfred H., New York, N. Y. Acetylene-gas apparatus	620,647	Mar. 7	196	40	86	1540
Francis, Evan J., New Kensington, Pa. Making sheet metal	626,994	June 13	1456	------	87	1915
Francis, Evan J., and O. H. Burgham, New Kensington, Pa. Annealing-box	623,146	Apr. 18	1764	405	87	372
Francis, Harry H., Madison, assignor of one-half to C. G. Culin, Cranford, N. J. Apparatus for facilitating excavating or mining	623,598	Apr. 25	2587	591	87	554
Francis, John S., Bloomington, Ill. Floor-frame for railway-cars	633,377	Sept. 19	2236	526 527	88	2173
Francis, Joseph R., Monroe, assignor of one-fourth to J. Devitt, Harding, W. Va. Electric lock	632,868	Sept. 12	1248	285	88	1970
Francis, Loveland M., Phœnix, Ariz. Ter. Inhaler	636,786	Nov. 14	1073	229	89	1165
Frank, Abraham, New York, N. Y. Cigar-box	636,513	Nov. 7	493	110	89	1021
Frank, Adolph, New York, N. Y. Gas-lighting appliance	632,522	Sept. 5	574	133	88	1821
Frank, Adolph, Charlottenburg, and N. Caro, Berlin, Germany. Making cyanids	623,709	Apr. 25	2771	------	87	588
Frank, David, assignor of one-half to J. Trounstine, New York, N. Y. Folding bed	631,500	Aug. 22	3296	749 750	88	1423
Frank E. Bundy Lamp Company. (See Bundy, Frank E., assignor.)						
Frank, George E., assignor of one-half to J. A. Lansing, Scranton, Pa. Electric time-alarm	636,656	Nov. 7	775	169	89	1079

Alphabetical list of patentees—Continued.

Name, residence, and invention.	No.	Date.	Monthly volume.		Official Gazette.	
			Spec.	Dr'g.	Vol.	Page.
Frank & Lambert. (See Loomis, Harry T., assignor.)						
Frank, Leo. (See Huebel, Otto H., assignor.)						
Frank, Lousie A. (See Dwyer, Patrick V., assignor.)						
Frank, Michael. (See Nicolai, Friedrich W. O., assignor.)						
Frank, Michael. (See Nicolai and Aschner, assignors.)						
Frank, Morris, *et al.* (See Loomis, Harry T., assignor.)						
Frank, Richard, New York, N. Y. Medicine-bottle	624,204	May 2	478	102	87	791
Frank, Salomon, Frankfort-on-the-Main, Germany. Apparatus for producing ribbed or corrugated tubes	629,245	July 18	2400	555, 556	88	502
Frank, Salomon, Frankfort-on-the-Main, Germany. Swaging screw-threads	638,962	Dec. 12	1430	327	89	2166
Frank, Samuel B., San Antonio, Tex. Dry-press brick-machine	636,252	Nov. 7	43	10	89	933
Frank, William, and F. St. Gemmes, assignors of one-third to E. S. Simpson, St. Louis, Mo. Fire-extinguisher	624,781	May 9	1517	345	87	1018
Franke, Adolf, Berlin, Germany, assignor to Siemens & Halske Electric Company of America, Chicago, Ill. Apparatus for reproducing motion	633,690	Sept. 26	2822	656	88	2300
Frankel, Albert H., New York, N. Y. Device for attaching metal seals to wood, &c	627,407	June 20	2236	493	87	2088
Frankenburg, Isidor. (See Weber and Cross, assignors.)						
Frankford, David, assignor to Elkhart Iron Works Company, Elkhart, Ind. Device for forming wire-fence clips	627,914	June 27	3164	693	87	2291
Frankford, David, assignor to Elkhart Iron Works Company, Elkhart, Ind. Tool for joining fence-strands	627,915	June 27	3165	693	87	2291
Frankl, Albert A., assignor of one-half to J. M. Guinzburg, New York, N. Y. Curtain	636,787	Nov. 14	1074	229	89	1166
Franklin, Edward. (See Flick and Franklin.)						
Franklin, Edward A., Austin, Tex., assignor to Chicago Novelty Manufacturing Company, Jersey City, N. J. Syringe and atomizer	617,245	Jan. 3	724	168	86	142
Franklin, Edward A., Austin, Tex., assignor to Chicago Novelty Manufacturing Company, Jersey City, N. J. Machine for forming sheet metal	618,408	Jan. 31	2983	661	86	645
Franklin, Edward A., assignor to Chicago Novelty Manufacturing Company, Austin, Tex. Machine for spraying liquids and powders	634,524	Oct. 10	1033	246, 247	89	224
Franklin, Edward R., assignor to Chicago Novelty Manufacturing Company, Austin, Tex. Churn-dasher	637,452	Nov. 21	2366	511	89	1433
Franklin, John, Norwood, Ohio. Valve connection for gas or other meters	637,505	Nov. 21	2459	534	89	1451
Franklin, John H., San Francisco, Cal. Tank	617,857	Jan. 17	1909	427	86	411
Franklin, John H., San Francisco, Cal. Rule	636,972	Nov. 14	1426	305	89	1235
Franklin, Joseph. (See Baum, Joseph S., assignor.)						
Franklin, Joseph E., assignor of one-half to E. Evans, Butler, Pa. Clutch-pulley	631,740	Aug. 22	3733	838	88	1508
Franklin Needle Company. (See Vernon, John, assignor.)						
Franklin, S. (See Belmont, Louis A., assignor.)						
Franklin, Stephen D., Philadelphia, Pa. Toy	621,055	Mar. 14	986	214	86	1704
Franklin Sugar Refining Company. (See Morrison, Edwin, assignor.)						
Franklin Typewriter Company. (See Seib, George A., assignor.)						
Franks, Orrin G., Buffalo, N. Y. Furniture-frame	640,123	Dec. 26	3567	820	89	2625
Franson, Charles F., St. Louis, Mo., and E. Wilmann, Chicago, Ill. Drawbridge	630,879	Aug. 15	2148	487, 488	88	1179
Frantz, Isaac B., Allenport, Pa. Telegraph-insulator	619,555	Feb. 14	1378	317	86	1098
Franzen, Carl, Cologne, Germany. Electric appliance for controlling supply of gas to burners, &c	631,037	Aug. 15	2450	556	88	1238
Frasch, Herman, Cleveland, Ohio, assignor to Solar Refining Company, of Ohio. Process of and apparatus for purifying petroleum	622,799	Apr. 11	1104	256	87	229
Frasch, Herman, Cleveland, Ohio, assignor to Solar Refining Company, of Ohio. Cleansing purifying agent employed in purifying petroleum	630,496	Aug. 8	1483	332	88	1025
Fraser, Albert E. (See Olsen, Andrew, assignor.)						
Fraser & Chalmers. (See Browne, Ross E., assignor.)						
Fraser, Charles B. (See Folliott, James H., assignor.)						
Fraser, David B., New York, N. Y. Apparatus for cooling roasted coffee	619,297	Feb. 14	950	216	86	1015
Fraser, David B., New York, N. Y. Coffee-roaster	627,993	July 4	66	12, 13	88	14
Fraser, Ethelbert M., San Francisco, Cal. Elevator	631,710	Aug. 22	3679	824	88	1498
Fraser, Ethelbert M., assignor to J. J. Mahony and C. E. Green, San Francisco, Cal. Elevator	617,305	Jan. 3	840	196	86	165
Fraser, Ethelbert M., San Francisco, Cal., assignor, by mesne assignments, to Otis Elevator Company, of New Jersey. Elevator	638,918	Dec. 12	1355	309	89	2151
Fraser, George H., *et al.*, trustees. (See Creuzbaur, Robert, assignor.)						
Fraser, Harry J., London, England. Evaporative condenser	625,877	May 30	3515	798, 799	87	1463
Fraser, John J., Roslindale, Mass. Crayon-sharpener	625,878	May 30	3516	799	87	1463
Fraser, John, P., and N., Arbroath, Scotland. Twisting machinery	634,407	Oct. 3	826	199	89	165
Fraser, Norman. (See Fraser, John, P., and N.)						
Fraser, Patrick. (See Fraser, John, P., and N.)						
Fraser, Russell, New York, N. Y. Belt-fastener	620,765	Mar. 7	426	88	86	1584
Fraser, Samuel, Toronto, Canada. Steam-boiler	618,501	Jan. 31	3145	695	86	675
Fraser, William, Birmingham, England. Brazeless joint for cycle-framings	619,556	Feb. 14	1379	317	86	1098
Fraser, William, Oakland, Cal. Waist and skirt attachment and support	628,601	July 11	1216	285	88	255
Frasier, William A., Guthrie, Okla. Ter. Barrel-shield	633,443	Sept. 19	2349	554	88	2195
Frauenfelder, Paul G., New York, N. Y., assignor to American Lithographic Company, of New York. Lithographic-printing plate	637,551	Nov. 21	2554	553	89	1470
Frauenfelder, Paul G., and W. H. McEntee, New York, N. Y. Color-printing apparatus	637,379	Nov. 21	2241	482	89	1409
Frauenfelder, Paul G., and W. H. McEntee, New York, N. Y. Color-printing apparatus	637,380	Nov. 21	2244	483	89	1410
Frauenhar, Abraham B. (See Weiss and Frauenhar.)						
Fravel, Warren. (See Johnson and Fravel.)						
Frazee, Edwin C., assignor to H. D. Frazee, Santa Rosa, Cal. Prune-dipper	622,215	Apr. 4	33	8	87	9
Frazee, Edwin C., assignor to H. D. Frazee, Santa Rosa, Cal. Fruit gatherer and grader	622,216	Apr. 4	35	8	87	9
Frazee, Henry D. (See Frazee, Edwin C., assignor.)						
Frazee, William A., Newark, N. J., and E. Bersbach, New York, N. Y., assignors to Tablet and Ticket Company, of Illinois. Advertising device	624,639	May 9	1269	284	87	968
Frazeur, David C., New Market, N. J. Gearing	631,208	Aug. 15	2749	622	88	1297
Frazier, George H., C. W. Wheaton, and W. M. Hagans, Dennison, Ohio. Car-truck	636,328	Nov. 7	169	37, 38	89	955
Frazier, George N., and C. P. Coy, Fort Wayne, Ind. Umbrella-support	633,828	Sept. 26	3044	707	88	2346
Frazier, George W., assignor to T. G. Christie, Allegheny, Pa. Galvanic battery	625,298	May 16	2453	558	87	1213
Frazier, Harry E., *et al.* (See McCune, James F., assignor.)						
Frazier, Presley, Great Bend, Kans. Cultivator	621,808	Mar. 28	2362	528, 529	86	1999
Frazier, Walter, *et al.* (See Arnold, Albert J., assignor.)						
Frechette, George J. P. (See Hebert, Arsene, assignor.)						
Fréchette, Isaïe, Montreal, Canada. Hand lasting-tool	626,755	June 13	979	221, 222	87	1822
Freckleton, Charles E., assignor to himself and M. Ellison, New York, N. Y. Folding crate	624,320	May 2	696	154	87	834

Alphabetical list of patentees—Continued.

Name, residence, and invention.	No.	Date.	Monthly volume.		Official Gazette.	
			Spec.	Dr'g.	Vol.	Page.
Freddy, Michael P., assignor of three-fourths to G. S. Roush, A. Salter, and W. E. Tucker, Lena, Ill. Blowpipe	626,603	June 6	688	159	87	1748
Frederick, Edwin E., *et al.* (See McCaffrey, Peter F., assignor.)						
Frederick, Ernest. (See Maynard and Frederick.)						
Frederickson, Charles N., Westvale, Mass. Signal apparatus for railway-trains	617,088	Jan. 3	435	105	86	84
Fredman, Charles, and J. Hallas, New Hamburg, N. Y. Boot or shoe jack	624,473	May 9	972	216	87	911
Freed, Aaron C., Royersford, Pa. Sink-trap	633,510	Sept. 19	2455	578	88	2215
Freed, Henry F., assignor of seven-eighths to I. Freed, Harrisburg, Pa.; D. K. Clink, and G. J. Reed, Chicago, Ill. Electrical safe-protection system	626,684	June 13	851	193	87	1798
Freed, Isaac., *et al.* (See Freed, Henry F., assignor.)						
Freed, Jacob A., *et al.* (See Tanney, Frank E., assignor.)						
Freed, William J., Eureka, Utah. Wheelbarrow	638,106	Nov. 28	3970	835	89	1808
Freeland, Isaac N., Rochelle, Ill. Telephone-desk	626,896	June 13	1291	284	87	1882
Freeman, Albert A., and O. Armstrong, Philadelphia, Pa., assignors to Automatic Lubricator Company, Philadelphia, Pa., and Wheeling, W. Va. Lubricator	639,967	Dec. 26	3291	753	89	2568
Freeman, Albert A., and O. Armstrong, Philadelphia, Pa., assignors to Automatic Lubricator Company, Philadelphia, Pa., and Wheeling, W. Va. Car-axle lubricator	639,968	Dec. 26	3293	753, 754	89	2568
Freeman & Co., George B. (See Davis, William E., assignor.)						
Freeman, Edwin T., Halifax, Canada. Nailing-machine	618,082	Jan. 24	2343	524, 525	86	509
Freeman, Eugene M., Davis, Ind. Ter. Tire-tightener	624,474	May 9	973	216	87	911
Freeman, Francis I., assignor to Totten & Hogg Iron and Steel Foundry Company, Pittsburg, Pa. Rolling-mill feed-table	617,328	Jan. 10	898	208, 209	86	194
Freeman, Francis I., assignor to Totten & Hogg Iron and Steel Foundry Company, Pittsburg, Pa. Switch device for feed-tables	618,858	Feb. 7	72	15	86	818
Freeman, Franklin C., Franklin, Ind. Toy	617,089	Jan. 3	437	105	86	85
Freeman, Horace L., Lexington, N. C. Steam-generator	631,209	Aug. 15	2751	622	88	1298
Freeman, James T., *et al.* (See Parkhurst, Edward B., assignor.)						
Freeman, John A., Beard, Ky. Electromedical appliance	632,559	Sept. 5	650	151	88	1835
Freeman, John W., assignor of one-fourth to C. F. Davis, Fort Collins, Colo. Combined door-knob and bell	620,297	Feb. 28	2739	627	86	1398
Freeman, Joseph T. (See Sheldon and Freeman.)						
Freeman, Paul. (See Hansel and Freeman.)						
Freeman, Philander B., assignor to F. C. Austin, Chicago, Ill. Well-drilling machine	622,459	Apr. 4	470	110, 111	87	87
Freeman, Reuben H., Fergus Falls, Minn. Steering mechanism	626,156	May 30	4108	936	87	1572
Freeman, Warren P., New York, N. Y. Electric belt	623,953	Apr. 25	3247	747	87	679
Freeman, Warren P., New York, N. Y., assignor, by mesne assignments, to Empire Electrical Machinery Company, of New Jersey. Mechanical clipper	621,560	Mar. 21	1897	424	86	1893
Freeman, Warren P., New York, N. Y., assignor to Empire Electrical Machinery Company, of New Jersey. Resistance-coil	621,561	Mar. 21	1898	424	86	1893
Freeman, Warren P., New York, N. Y., assignor to Empire Electrical Machinery Company, of New Jersey. Storage battery	627,494	June 27	2385	524	87	2134
Freeman, Warren P., New York, N. Y., assignor, by mesne assignments, to Electric Stone Cleaning and Renovating Company, Jersey City, N. J. Apparatus for cleaning ships' hulls	634,328	Oct. 3	693	166	89	139
Freeman, Warren P., New York, N. Y., assignor, by mesne assignments, to Electric Stone Cleaning and Renovating Company, Jersey City, N. J. Diver's stage for cleaning ships' hulls	634,329	Oct. 3	695	166	89	139
Freeman, Warren P., assignor of two-thirds to R. J. Campbell, New York, and F. Larkin, Jr., Sing Sing, N. Y. Rotating electric motor	618,935	Feb. 7	231	52	86	849
Freeman, William, assignor to Harris Suspender Company, New York, N. Y. Suspenders	635,959	Oct. 31	3723	861	89	792
Freeman, William C., Kalkaska, Mich. Combined land roller and mulcher	627,182	June 20	1785	391, 392	87	1999
Freeman, William C., Kalkaska, Mich. Vegetable-cutter	634,289	Oct. 3	603	148	89	121
Freer, Charles K., Port Clinton, Ohio. Method of and device for connecting railway-rails	622,946	Apr. 11	1373	315	87	280
Freese, August H., Boston, Mass. Stand for flowers	617,090	Jan. 3	438	106	86	85
Freese, Claus, New York, N. Y., assignor to Automatic Cabinet and Paper Company. Paper-holder	632,047	Aug. 29	4293	965	88	1628
Freese, Edward, assignor of one-half to H. Mündheim, New York, N. Y. Non-refillable bottle	626,417	June 6	375	88	87	1686
Freese, Francis J., Lowell, Mass. Trimming and channeling machine	622,460	Apr. 4	477	111, 112	87	88
Freese, John D., Chicago, Ill. Beer-dispensing and pipe-cleaning apparatus	628,084	July 4	230	53	88	46
Freise, William A., Newark, N. J. Pack-saddle filter	623,777	Apr. 25	2916	667	87	616
Freise, William A., Newark, N. J. Ambulant filter	623,894	Apr. 25	3140	723	87	659
Fremery, Max, and J. Urban, Oberbruch, Germany. Manufacturing artificial silk	617,009	Jan. 3	280	------	86	56
French, Aaron, *et al.* (See Cosgrave, Sylvester A., assignor.)						
French, Alfred A., assignor of one-half to S. W. Watterson, Cleveland, Ohio. Bottle	626,418	June 6	375	88	87	1687
French, Alfred W., Chicago, Ill. Machine for trimming oil-cakes	623,241	Apr. 18	1931	443	87	405
French, Frederick W., Lakeside, Cal. Gopher or squirrel trap	636,788	Nov. 14	1075	230	89	1166
French, George R. (See Doremus, Christopher S., assignor.)						
French, Gilbert B., Lynn, Mass. Means for sharpening lawn-mowers	636,253	Nov. 7	44	10	89	933
French-Hickman Flax Fibre Company. (See Hickman, Francis, assignor.)						
French, James B., Maywood, Ill. Sidewalk or floor construction	630,337	Aug. 8	1144	250	88	963
French, John E. and O. A., St. Cloud, Minn. Automatic grain-bundle shocker	626,653	June 6	783	178, 179, 180	87	1766
French, Orrin A. (See French, John E. and O. A.)						
French, Selden M. (See Locke, Thomas R., assignor.)						
French, Timothy, *et al.* (See Neale, Arthur H., assignor.)						
French, Walter, Chicago, Ill. Shield for percussive tools	628,455	July 11	946	220	88	202
French, Zachary T., and W. C. Meyer, Boston, Mass. Rounding and channeling machine	630,338	Aug. 8	1145	250	88	963
French, Zachary T., and W. C. Meyer, Boston, Mass. Sole trimming and channeling machine	630,339	Aug. 8	1147	251	88	964
Frenier, A. B., *et al.* (See Jarmin, James B., assignor.)						
Frerich, Joseph B. (See Muehr and Frerich.)						
Frerichs, Frederick W., St. Louis, Mo. Apparatus for testing liquid anhydrous ammonia	635,535	Oct. 24	2918	666	89	625
Freschl, Alfred, Chicago, Ill. Apparatus for tufting cushions	618,030	Jan. 17	2222	495, 496	86	471
Freschl, Alfred, Chicago, Ill. Apparatus for tufting cushions	619,685	Feb. 14	1617	370	86	1143
Freschl, Alfred, Chicago, Ill. Apparatus for tufting cushions	620,070	Feb. 21	2332	530	86	1306
Freschl, Alfred, Chicago, Ill. Apparatus for tufting cushions. (Reissue)	11,778	Oct. 24	3290	759	89	696
Freschl, Alfred, Chicago, Ill. Apparatus for tufting cushions. (Reissue)	11,779	Oct. 24	3292	759	89	696

Alphabetical list of patentees—Continued.

Name, residence, and invention.	No.	Date.	Monthly volume. Spec.	Monthly volume. Dr'g.	Official Gazette. Vol.	Official Gazette. Page.
Fresen, Wilhelmus J. H., Brussels, Belgium. Steam-regulator valve for steam-engines	636,130	Oct. 31	4089	936	89	866
Fretwell, William A., South Boston, Va. Style of manufactured tobacco	625,970	May 30	3677	835	87	1493
Freuler, John R., Milwaukee, Wis. Copying-press	633,645	Sept. 26	2734	637	88	2282
Freund, Eugene F. (See Freund and Kuett.)						
Freund, Leo H., New York, N. Y., E. F. Freund and G. F. Kuett, Paterson, N. J. Gas, steam, or water valve	634,496	Oct. 10	985	236	89	215
Frew, James H., New Castle, Pa. Oscillating gas or steam engine	623,361	Apr. 18	2156	496	87	449
Frew, James H., New Castle, Pa. Electric igniter for explosive-engines	623,778	Apr. 25	2917	667	87	617
Frey, Albert A. (See Hoefinghoff, Harry C., assignor.)						
Frey, James. (See Borne and Frey.)						
Freysinger, Rudolf, Sassenhoff, Russia. Pneumatic-tired wheel for vehicles	621,240	Mar. 14	1311	290	86	1769
Freysinger, Rudolf, Riga-Sassenhof, Russia. Elastic tire	639,165	Dec. 12	1774	411	89	2233
Friberg, Charles P. A. (See Hunt and Friberg.)						
Fribley, William F., Bourbon, Ind. Churn	634,408	Oct. 3	827	200	89	165
Frick Company. (See Hutchinson, Arthur H., assignor.)						
Frick, Rudolph, Burlington, Iowa. Grater for nutmegs, &c	633,188	Sept. 19	1860	438	88	2100
Frideritzi, Joseph C., St. Louis, Mo. Boiler-cleaner	622,920	Apr. 11	1330	306	87	271
Friebertshauser, Wilhelm, Pittsburg, Pa. Gas-burner	622,187	Mar. 28	3067	695	86	2138
Fried. Krupp Grusonwerk. (See Hoffmann, Heinrich, assignor.)						
Friedersdorff, Amalia, Grammar, Ind. Baby-walker	631,889	Aug. 29	4002	895	88	1571
Friedman, Goste, Jamestown, N. Y. Cake-beater	636,400	Nov. 7	290	65	89	979
Friedmann, Louis, Vienna, Austria-Hungary. Injector	625,329	May 23	2522	573	87	1252
Friedrich, George A., San Francisco, Cal. Apparatus for drawing and serving steam-beer. (Reissue)	11,745	June 6	796	181	87	1769
Friedrich, Hans, Mittweida, Germany. Device for regulating pressure and quantity of fluids	631,741	Aug. 22	3735	838	88	1509
Friedrich, Philip J., Coytesville, N. J. Bottle	617,733	Jan. 17	1657	372, 373	86	362
Friedrich, Philip J., Coytesville, N. J. Bottle	636,427	Nov. 7	339	76	89	990
Friedsam, Albert. (See Carson, Lauris L., assignor.)						
Friend, Robert, and L. S. Ray, Melrose, Mass. Lawn-mower	629,990	Aug. 1	493	107	88	820
Friend, William, York, Pa. Ball-bearing	623,954	Apr. 25	3249	748	87	680
Fries, Daniel, Cincinnati, Ohio. Lock-joint for iron constructions	637,506	Nov. 21	2462	534	89	1451
Fries, John W., Salem, N. C. Dyeing	620,578	Mar. 7	47	------	86	1511
Fries, John W., Salem, N. C. Machine for dyeing textile fabrics	620,579	Mar. 7	48	10	86	1511
Friese-Greene, William, London, England. Means or apparatus for producing and exhibiting animated or changing pictures on advertising appliances, &c	623,242	Apr. 18	1934	443	87	405
Frietchek, Thomas, Dodge, Nebr. Corn-planter	620,237	Feb. 28	2635	600	86	1376
Friez, Julien P., Baltimore, Md. Heliograph	617,684	Jan. 10	1562	354	86	323
Frings, Nicolaus. (See Forcke and Frings.)						
Frink, Herbert J., Holyoke, Mass. Pulp-grinding machine	636,225	Oct. 31	4261	979	89	901
Frink, John K., New York, N. Y. Tile flooring	636,200	Oct. 31	4210	968	89	892
Frisbee, Gideon, Philadelphia, Pa. Pulverizing-machine	627,579	June 27	2551	561, 562	87	2166
Frisbee, Gideon, Philadelphia, Pa. Pulverizing-machine	631,291	Aug. 22	2910	658, 659	88	1346
Frisbee, Gideon, Philadelphia, Pa. Pulverizing-machine	633,511	Sept. 19	2456	578, 579	88	2215
Frisbie, Henry R., Belleville, assignor of one-half to D. Dodd, Newark, N. J. Trolley-wheel	630,210	Aug. 1	886	191	88	898
Frisch, Fritz, Buda-Pesth, Austria-Hungary. Bed-and-cylinder printing-press	631,398	Aug. 22	3105	703	88	1385
Frischauer, Emil. (See Simonnier, Anton O., assignor.)						
Frischmuth, Emmerich, Berlin, Germany, assignor to Siemens & Halske Electric Company of America, Chicago, Ill. Overhead-trolley system	627,495	June 27	2386	525	87	2135
Frischmuth, Emmerich, Berlin, Germany, assignor to Siemens & Halske Electric Company of America, Chicago, Ill. Protective or guard appliance	635,470	Oct. 24	2812	642	89	605
Frishmuth, Charles S., Philadelphia, Pa. Faucet	628,786	July 11	1580	364	88	329
Frisinger, David F., Collinwood, Ohio. Clothes-line supporter	621,056	Mar. 14	987	215	86	1704
Friswell, Arthur E., Providence, R. I. Rubber tire for vehicles	633,444	Sept. 19	2350	554	88	2195
Fritch, John W. (See Callum and Fritch.)						
Frith, Arthur J., New York, N. Y. Bucket conveyer	620,298	Feb. 28	2741	628	86	1399
Frith, Arthur J., New York, N. Y. Conveyer	620,299	Feb. 28	2745	629	86	1400
Fritts, Atwood D., Hoboken, N. J. Fastener for doors	632,009	Aug. 29	4219	949	88	1613
Fritz, Ferdinand, London, England. Incandescent mantle and making same	628,787	July 11	1582	------	88	329
Fritz, Louis. (See Welling and Fritz.)						
Fritz, Louis, assignor to G. D. Nuber, Philadelphia, Pa. Machine for pulverizing coffee, &c	635,436	Oct. 24	2751	629	89	591
Fritzsche & Co., Franz. (See Ziegler, Josef, assignor.)						
Fritzsche, Paul T., Leipsic, Germany, assignor, by mesne assignments, to American Ether Company of Richmond, Virginia, Richmond, Va. Obtaining ether. (Reissue)	11,740	May 9	1741	393	87	1061
Froberg, Johan R., assignor of two-thirds to C. E. Clinch and A. Hall, Grass Valley, Cal. Heater	639,550	Dec. 19	2512	579	89	2394
Froböse, Heinrich, assignor to Bielefelder Maschinen-Fabrik, vormals Dürkopp & Co., Bielefeld, Germany. Lubricator	617,898	Jan. 17	2000	446	86	429
Froeckman, William A., St. Louis, Mo. Door for fire-alarm boxes	621,403	Mar. 21	1595	353, 354	86	1836
Froehlich, Helen B. (See Froehlich, Theodore A. and H. B.)						
Froehlich, Theodore A. and H. B., New York, N. Y. Weather-signal indicator	631,161	Aug. 15	2672	604	88	1281
Froelich, John, Waterloo, Iowa. Speed-regulator for explosive-engines	626,275	June 6	99	26	87	1633
Froissart, Damas, Douai, France. Means for pointing guns	630,211	Aug. 1	887	192, 193, 194, 195	88	898
Frölich, Oscar, Steglitz, assignor to Siemens & Halske Aktien-Gesellschaft, Berlin, Germany. Apparatus for distilling metals or similar substances	629,008	July 18	1981	462	88	423
Frossard, Joseph, Porrentruy, assignor to B. Ründ, Zurich, Switzerland. Time lamp-lighter	639,166	Dec. 12	1775	411, 412	89	2233
Frost, Clarence C., Norwich, Conn., assignor to Worcester Umbrella Company, Worcester, Mass. Folding-umbrella rib-joint	626,203	May 30	4198	954	87	1590
Frost, Edward J., Philadelphia, Pa., and R. Biddle, Jr., Riverton, N. J. Oil-burner-regulating device	638,107	Nov. 28	3971	835	89	1808
Frost, Ellis F., Washington, D. C. Kinetoscope	627,930	June 27	3191	699	87	2296
Frost, Ellis F., U. S. Army. Telephone-transmitter	637,453	Nov. 21	2367	512	89	1433
Frost, Horace L. (See Hayes and Frost.)						
Frost, William (See Everton and Frost.)						
Frost, Sylvester P., assignor of one-half to S. P. Bartlett, Quincy, Ill. Antirust preparation	621,057	Mar. 14	988	------	86	1704

Alphabetical list of patentees—Continued.

Name, residence, and invention.	No.	Date.	Monthly volume. Spec.	Monthly volume. Dr'g.	Official Gazette. Vol.	Official Gazette. Page.
Frowenfeld, J. (See Patak, Frank, assignor.)						
Fructus, Marius. (See Ollagnier, Fructus and Descher.)						
Frudenfeld, Joseph, Madison, S. D. Account-book	628,788	July 11	1582	364, 365	88	329
Frudenfeld, Joseph, Madison, S. D. Account-book	628,789	July 11	1584	365	88	330
Frueh, Jacob. (See Ransom and Frueh.)						
Fruhling, A. F. (See Mace, Cellestin, assignor.)						
Fruit, Flowers and Vegetable Evaporating Company. (See Cameron, James W., assignor.)						
Frumveller, Joseph, Pullman, assignor to Pullman's Palace Car Company, Chicago, Ill. Car-heating apparatus	619,402	Feb. 14	1120	253	86	1048
Fry, John L., Canton, Ohio. Carpet-fastener	618,223	Jan. 24	2615	578	86	559
Fry, Joseph W., assignor of one-half to M. Tinkey, Cleveland, Ohio. Automatic flushing mechanism	621,058	Mar. 14	988	215	86	1704
Fry, Stephen D. (See Johnson and Fry.)						
Fry, Stephen D., Chicago, Ill. Gate	639,921	Dec. 26	3201	735	89	2550
Fry, Urias J., Milwaukee, Wis. Automatic electric signal for railway-crossings	619,038	Feb. 7	458	96	86	899
Frybarger, Charles H., Carlton, Colo. Shield for light artillery	624,640	May 9	1270	284	87	968
Frydenlund, Erik A., Lakota, N. D. Horseshoe	635,242	Oct. 17	2330	544	89	493
Fryer, John W. (See Balthasar, Curt J., assignor.)						
Fuchs, Adolph, Lintz-on-the-Rhine, Germany. Self-adjusting iron staircase	624,782	May 9	1518	345, 346	87	1019
Fuchs, Friedrich, and H. Gussmann, assignors to Farbwerke, vormals Meister, Lucius & Brüning, Höchst-on-the-Main, Germany. Black sulfur dye and making same	626,897	June 13	1292	------	87	1882
Fuchs, Gotthold, Stolberg, assignor to Chemische Fabrik Rhenania, Aix-la-Chapelle, Germany. Medicinal product	635,471	Oct. 24	2814	------	89	605
Fugate, John A., Irving, Oreg. Screen or riddle	627,640	June 27	2680	588	87	2193
Fugman, Godfrey, Cleveland, Ohio. Glass prism-plate	627,848	June 27	3040	664	87	2264
Fugman, Godfrey, Cleveland, Ohio. Fireproof construction	632,523	Sept. 5	575	133	88	1821
Fugman, Godfrey, Cleveland, Ohio. Metallic sheet for use in constructing buildings	634,237	Oct. 3	492	123	89	100
Fugman, Godfrey, Cleveland, Ohio. Fireproof floor and ceiling slab	634,262	Oct. 3	552	137	89	110
Fuld, Manes E., Baltimore, Md. Induction-coil	620,027	Feb. 21	2259	512	86	1292
Fuld, Manes E., Baltimore, Md. Packing-case for electric cells	627,408	June 20	2237	493	87	2088
Fuld, Manes E., Baltimore, Md. Dry cell	627,917	June 27	3167	694	87	2292
Fulhaber, Jerôme, assignor to F. E. Low & Co., Paterson, N. J. Pattern-chain support	636,514	Nov. 7	494	110	89	1021
Fullen, Jefferson D., Barnett, assignor of two-thirds to S. Aston, Jr., Lebanon, Va., and W. E. Burns. Journal-box for car-axles	624,006	May 2	98	20	87	722
Fuller, Albert, Guttenburg, N. J. Injector	628,456	July 11	947	220	88	202
Fuller, Albert F., Irvington, N. J., assignor to J. E. Mergott Company, of New Jersey. Purse or bag frame	621,452	Mar. 21	1690	375	86	1853
Fuller, Albert M., assignor of one-half to H. B. Fuller, St. Paul, Minn. Wall-cleaning compound	634,497	Oct. 10	987	------	89	215
Fuller, Edgar, Fort Assinniboine, Mont. Sash-fastener	624,783	May 9	1519	346	87	1019
Fuller, Frank, trustee. (See Compton, Melvin, D., assignor.)						
Fuller, Frederick L., assignor, by mesne assignments, to Union Cash Register Manufacturing Company, Trenton, N. J. Weighing-scale and value calculating and registering mechanism	639,551	Dec. 19	2513	579, 580	89	2394
Fuller, Harvey B. (See Fuller, Albert M., assignor.)						
Fuller, Henry, Chicago, Ill. Ore separator and amalgamator	633,445	Sept. 19	2351	554, 555	88	2195
Fuller, James A., New York, N. Y. Box or case	621,059	Mar. 14	990	215, 216	86	1705
Fuller, James W. (See Snyder, William T., assignor.)						
Fuller, John E., New York, assignor to C. C. Dusenbury, Lake Mahopac, N. Y. Magneto-circuit closer	617,858	Jan. 17	1910	428	86	411
Fuller, John E., assignor to himself and S. B. Starr, New York, N. Y. Safety-pin for scarfs, &c	617,091	Jan. 3	439	106	86	85
Fuller & Johnson Manufacturing Company. (See Starks, Niels O., assignor.)						
Fuller, Louis T., and J. G. Volle, Calvert, Tex. Strainer	622,217	Apr. 4	37	9	87	10
Fuller, Melvin L., Gloversville, N. Y. Suspender-buckle	618,657	Jan. 31	3428	764	86	729
Fuller, Robert S. C., New York, N. Y. Writing-pad	626,685	June 13	853	194	87	1799
Fuller, Russell B., Holland, Mich. Fruit or vegetable basket	622,921	Apr. 11	1331	306	87	271
Fuller, Solomon, Danvers, Mass. Hand-weeder	634,409	Oct. 3	828	200	89	165
Fuller, Walter M., *et al.* (See Simmons, Daniel, assignor.)						
Fuller-Warren Company. (See Porter, Samuel E., assignor.)						
Fuller, Willard M., assignor of two-thirds to H. W. Hallett, Colorado Springs, Colo., and H. A. Laughlin, Pittsburg, Pa. Amalgamator	624,894	May 9	1735	392	87	1060
Fullerton, Edward G., Montevideo, Minn. Milk-cooler	633,992	Oct. 3	19	5	89	7
Fullerton, Hugh W., *et al.* (See Howe, William R., assignor.)						
Fullerton, James S., *et al.* (See Latimer, James F., assignor.)						
Fullerton, John C., Moore Station, Tex. Attachment for wheeled plows or cultivators	635,536	Oct. 24	2921	666, 667	89	625
Fullerton, John P., London, England. Metallic alloy	623,209	Apr. 18	1878	------	87	394
Fullwood, Henry, North Carlton, Victoria. Door-stop	624,007	May 2	99	21	87	722
Fulton, Angus R. (See Dryman and Fulton.)						
Fulton, Cassius L., Deer Lodge, Tenn. Measure	628,622	July 11	1269	295	88	266
Fulton Engineering and Ship-Building Works. (See Hopps, John H., assignor.)						
Fulton, Fred B., and D. Cook, Vancouver, Canada. Device for assembling and cooling cans	629,189	July 18	2309	536	88	486
Fultz, John M., assignor of one-half to J. M. Harrop, Quincy, Ill. Box-fastener	618,201	Jan. 24	2581	571	86	553
Fulweiler, William H., Clay Centre, Kans. Combined ventilator and flue-stop	630,340	Aug. 8	1152	252	88	965
Funk, Henry, New York, N. Y. Pleasure-railway	637,775	Nov. 28	3328	696	89	1681
Funk, Nellie D. (See Earnest, George H., assignor.)						
Funk, Nelson E., assignor, by mesne assignments, of one-half to R. F. Emmerich, New York, N. Y. Table-raising mechanism for paper-feeding machines	621,753	Mar. 21	2256	509	86	1964
Funke, Carl, assignor to F. Krupp, Essen, Germany. Rapid-firing gun	623,895	Apr. 25	3142	723, 724	87	659
Funke, Robert C., Philadelphia, Pa. Hammock	627,994	July 4	71	13	88	15
Fuoss, Frank P., *et al.* (See Wolfe, Thomas, assignor.)						
Furber, Frederick M., Haverhill, Mass. Sole-edge-trimming tool	623,710	Apr. 25	2772	634	87	588
Furbish, Zachry T., assignor to W. H. Stevens, Portland, Me. Mechanical movement	616,911	Jan. 3	86	18	86	18
Furbish, Zachry T., assignor to North Brothers Manufacturing Company, Philadelphia, Pa. Chuck	632,560	Sept. 5	651	151	88	1835
Furlong, Patrick M., New York, N. Y. Composite printing-plate and producing same	625,666	May 23	3092	703	87	1363
Furlow, Thomas H., Philadelphia, Pa. Molding-machine	630,212	Aug. 1	892	195, 196	88	898

Alphabetical list of patentees—Continued.

Name, residence, and invention.	No.	Date.	Monthly volume.		Official Gazette.	
			Spec.	Dr'g.	Vol.	Page.
Furman, Fredrick J., assignor to Herendeen Manufacturing Company, Geneva, N. Y. Generator	617,092	Jan. 3	440	106, 107, 108	86	85
Furnas, Walter S., Lisbon, Iowa. Fattening-booth for poultry	638,108	Nov. 28	3972	835	89	1809
Furneaux, John B., Gateshead, England. Water-tube steam-boiler	637,862	Nov. 28	3507	732	89	1719
Fusch, Warnie A., assignor of one-half to T. L. Blackburn, Lincoln, Ill. Gate for bridges	620,116	Feb. 28	2428	548, 549	86	1338
Fuss, Alfred L., Washington, D. C. Reversible lock-hinge	637,724	Nov. 21	3230	672	89	1642
Fyfe, Andrew and D. P., Canterbury, New South Wales. System of automatic subirrigation	633,378	Sept. 19	2239	527	88	2173
Fyfe, David P. (See Fyfe, Andrew and D. P.)						
Fyfe, Peter, and A. Phillips, Glasgow, Scotland. Side light for ships	631,292	Aug. 22	2912	659	88	1347
Fyfe, Samuel, assignor of twenty-one fortieths to W. C. Peacock, Melbourne, Victoria. Machine for labeling bottles, &c	628,307	July 4	676	158, 159	88	131
Fyrberg, Andrew, Worcester, Mass. Lock for firearms	624,321	May 2	698	154	87	834
Fyrberg, Andrew, Worcester, Mass. Shell-ejector for firearms	624,322	May 2	699	154	87	834
G. W. Jones Lumber Company. (See Stewart, David S., assignor.)						
Gabe, Charles W., Columbus, Ohio. Puncture-closing compound	636,329	Nov. 7	171	------	89	955
Gabel, Edward, Utica, N. Y. Curtain-fixture	626,830	June 13	1126	251	87	1849
Gabel, Edward, Utica, N. Y. Tire-valve support and air-pump	639,552	Dec. 19	2526	580	89	2397
Gable, Edward, assignor of one-half to F. Gable, Baltimore, Md. Musical instrument	635,312	Oct. 24	2463	------	89	535
Gable, Franklin. (See Gable, Edward, assignor.)						
Gabriel, Charles, Chicago, Ill. Chuck for press-plungers	619,557	Feb. 14	1380	318	86	1099
Gabrielson, William, Crystal Falls, Mich. Trap-hook	639,553	Dec. 19	2528	580	89	2398
Gabrio, Peter S. (See MacCauley and Gabrio.)						
Gaddis, Eugene F., Flora, Miss. Shoulder-pad	640,124	Dec. 26	3569	820	89	2626
Gaede, Samuel A., De Witt county, Ill. Cattle-trough	625,390	May 23	2617	595	87	1270
Gaff, Francis K., Hamilton, Ohio. Mechanical device	626,604	June 6	689	159	87	1748
Gage, George A., Chicago, Ill. Veneer coiling and nailing machine	628,085	July 4	231	53	88	47
Gage, Richard A., Pawtucket, R. I. Apparatus for drying yarn	629,158	July 18	2260	523	88	477
Gage, Richard A., Pawtucket, R. I. Drying yarn	629,318	July 18	2535	590	88	528
Gage, Wellesley W., New York, and B. T. Searing, Garden City, N. Y.; said Searing assignor to said Gage. Filter	623,955	Apr. 25	3250	748	87	680
Gahagan, Walter H., New York, N. Y. Caisson-excavating	618,955	Feb. 7	290	63	86	867
Gahlau, Emil, Springfield, Mass. Combined mop head and wringer	631,250	Aug. 15	2833	639	88	1314
Gahlau, Rudolph C., assignor of one-half to G. Galster, Detroit, Mich. Lamp-guard	632,048	Aug. 29	4295	965	88	1628
Gail, John F., assignor to Simmons Manufacturing Company, Kenosha, Wis. Spring bed and seat bottom	639,222	Dec. 19	1903	438, 439	89	2270
Gail, John F., assignor to Simmons Manufacturing Company, Kenosha, Wis. Spring bed and seat bottom	639,223	Dec. 19	1906	439	89	2271
Gail, John F., assignor to Simmons Manufacturing Company, Kenosha, Wis. Spring bed and seat bottom	639,224	Dec. 19	1909	439	89	2272
Gail, John F., assignor to Simmons Manufacturing Company, Kenosha, Wis. Spring bed and seat bottom	639,225	Dec. 19	1912	439	89	2273
Gail, John F., assignor to Simmons Manufacturing Company, Kenosha, Wis. Spring bed and seat bottom	639,226	Dec. 19	1913	440	89	2273
Gailey, Roy E., and J. F. Bohlander, Newkirk, Okla. Ter. Lumber-piling platform	621,404	Mar. 21	1598	354	86	1836
Gailor, William H., Saratoga Springs, N. Y. Carriage-axle	624,205	May 2	479	103	87	791
Gaines, Ambrose P. (See Gustafson and Gaines.)						
Gaines, Ambrose P., South Pittsburg, and C. J. Gustafson, Sequachee, Tenn. Cooling device for furnace-walls	628,790	July 11	1585	365, 366	88	330
Gaines, Joseph K., Washington, D. C. Follower	631,365	Aug. 22	3042	689	88	1373
Gair, Robert, New York, N. Y. Paper box	619,475	Feb. 14	1245	284	86	1072
Gairing, Alfred J. (See Benshoff and Gairing.)						
Gaisman, Henry J., New York, N. Y. Waist-belt	619,161	Feb. 7	701	150	86	948
Gaisman, Henry J., New York, N. Y. Waist-belt	623,362	Apr. 18	2159	496, 497	87	450
Gaisman, Henry J., New York, N. Y. Waist-belt	630,045	Aug. 1	601	131	88	842
Gaisser, Alice R. (See Gaisser, Louis E., assignor.)						
Gaisser, Louis E., assignor to A. R. Gaisser, Clarksville, Tenn. Corn-sheller	637,930	Nov. 28	3622	760	89	1742
Gaitzsch, Karl J., Knauthain, Germany. Calk attachment for horseshoes	623,896	Apr. 25	3143	724	87	660
Galarneau, Onesime, assignor to A. E. Charron, Montreal, Canada. Ice-creeper	625,330	May 23	2523	574	87	1253
Galbraith, Charles. (See Hitchcock and Galbraith.)						
Galbraith, Robert, Lansingburg, N. Y. Grate-mounting for furnaces	619,162	Feb. 7	703	150, 151	86	949
Galbraith, Robert, Lansingburg, assignor, by mesne assignments, to E. J. Berwind and W. D. Walbridge, trustees, New York, N. Y. Stove	633,556	Sept. 19	2539	595, 596	88	2231
Gale, Eliza S., *et al.* (See Crozier, Thomas W., assignor.)						
Gale, Eliza S., *et al.* (See Neal, James W., assignor.)						
Gale Manufacturing Company. (See Beall, William L., assignor.)						
Gall & Lembke. (See Obrig, Jacob A. T., assignor.)						
Gallager, Henry, assignor of one-half to J. J. McDonough, Savannah, Ga. Car-axle lubricator	631,210	Aug. 15	2753	622	88	1298
Gallagher, Edward D., and T. A. Haynes, New York, N. Y. Fireman's helmet	622,677	Apr. 11	904	207	87	191
Gallagher, Emma G., *et al.* (See Gallagher, George S., assignor.)						
Gallagher Fairchild Company. (See Gallagher, George S., assignor.)						
Gallagher, George B., assignor of one-half to Auglaize Machine Company, St. Mary's, Ohio. Jack	626,605	June 6	690	159, 160	87	1748
Gallagher, George S., New York, N. Y., assignor, by mesne assignments, to Gallagher Fairchild Company, of New Jersey. Copy-holder for type-writers	629,744	July 25	3327	776	88	703
Gallagher, George S., assignor to Z. B., H. F., and E. G. Gallagher and J. M. Fairchild, New York, N. Y. Copy-holder for type-writing machines	624,641	May 9	1271	284	87	968
Gallagher, Henry F., *et al.* (See Gallagher, George S., assignor.)						
Gallagher, James. (See Keil and Gallagher.)						
Gallagher, John. (See Beers, Edgar, assignor.)						
Gallagher, Richard D., assignor to Winslow Brothers' Company, Chicago, Ill. Floor construction	632,710	Sept. 12	963	223	88	1912
Gallagher, Thomas M., assignor to Shickle, Harrison & Howard Iron Company, St. Louis, Mo. Body-bolster for railway-cars	632,180	Aug. 29	4552	1026	88	1679
Gallagher, William M., Carnegie, Pa. Torpedo	628,308	July 4	680	159	88	131
Gallagher, Zilliah B., *et al.* (See Gallagher, George S., assignor.)						
Galland, Aimé. (See Martinot and Galland.)						
Galland, Joseph, assignor to Aultman & Taylor Machinery Company, Mansfield, Ohio. Turn-table for automatic stackers	617,286	Jan. 3	808	188	86	159
Gallant, Francis, Tignish, Canada. Lock	630,046	Aug. 1	603	131	88	843
Gallaway, James, Jr., *et al.* (See Park, Louis C., assignor.)						
Galleazzi, Joseph, San Francisco, Cal. Accordion	619,558	Feb. 14	1381	318	86	1099

Alphabetical list of patentees—Continued.

Name, residence, and invention.	No.	Date.	Monthly volume.		Official Gazette.	
			Spec.	Dr'g.	Vol.	Page.
Gallée, Rudolf. (See Kruis and Gallée.)						
Gallegos, José, San José de Guatemala, Guatemala. Telegraph receiver or relay	626,606	June 6	691	160	87	1749
Gallegos, José, San José de Guatemala, Guatemala. Static electric machine	633,829	Sept. 26	3047	708	88	2347
Gallert, Hyman. (See Schwarz, Solomon, assignor.)						
Gallert, Theodore, New York, N. Y. Razor-strop	621,809	Mar. 28	2365	529	86	2000
Galley, Charlotte E., Buffalo, N. Y. Rubber-cushioned horseshoe	634,410	Oct. 3	829	200	89	166
Gallison, William H. (See McHugh, Timothy J., assignor.)						
Gallogly, John, Upperglade, W. Va. Hame attachment	626,784	June 13	1046	235	87	1836
Gallois, Moritz von. (See Philip and Gallois.)						
Galloway, John, Palmyra, Ill. Insect-destroyer	636,973	Nov. 14	1426	305	89	1235
Gallup, Edward P., *et al.* (See Gallup, Thomas P., assignor.)						
Gallup, Thomas P., assignor to H. S. Niles, Boulder, and E. P. Gallup, Denver, Colo. Gate	638,009	Nov. 28	3779	794	89	1772
Galpin, John, Winsted, Conn. Horse-boot	617,153	Jan. 3	570	134	86	112
Galster, George. (See Gahlau, Rudolph C., assignor.)						
Galt, Thomas A., Sterling, Ill. Crank-and-pitman connection	617,957	Jan. 17	2093	469	86	449
Galt, Thomas A., Sterling, Ill. Box-hinge	625,549	May 23	2898	658	87	1325
Galt, Thomas A., Sterling, Ill. Churn	638,504	Dec. 5	608	126	89	1983
Gamble, Alphonso A., Griswold, Iowa. Mechanical movement	636,254	Nov. 7	45	11	89	933
Gamble, George E. (See Gamble, Joseph W., assignor.)						
Gamble, Henry E., Hoboken, Belgium. Steam-engine	632,010	Aug. 29	4220	949 950	88	1614
Gamble, Henry P., and A. Black, Leicester, England. Heel-nailing machine	634,106	Oct. 3	228	57,58	89	49
Gamble, Joseph W., assignor of one-half to G. E. Gamble, Philadelphia, Pa. Apparatus for treating garbage	626,157	May 30	4109	936 937	87	1572
Gamewell Fire-Alarm Telegraph Company. (See Bundy, Henry C., assignor.)						
Gamewell Fire-Alarm Telegraph Company. (See Coleman, Abner, assignor.)						
Gammons, Welcome P., Jr., New York, N. Y. Hat	623,148	Apr. 18	1769	407	87	372
Gammons, Welcome P., Jr., assignor to Crescent Sewing Machine Company, New York, N. Y. Sewing-machine	623,147	Apr. 18	1765	406 407	87	372
Ganney, Henry, New York, N. Y. Escapement	635,729	Oct. 24	3275	757	89	693
Gannon, Edward F., assignor to Griffin Wheel Company, Chicago, Ill. Grinder for chillers	639,723	Dec. 26	2839	654	89	2478
Gans, John L., Connellsville, Pa. Pie or cake cutter	634,330	Oct. 3	696	166	89	139
Gans, John L., Connellsville, Pa. Scrubbing-brush	634,813	Oct. 10	1538	362	89	322
Gans, Moses, Baltimore, Md. Drilling-machine	634,331	Oct. 3	697	167	89	140
Ganswindt, Hermann, Schöneberg, Germany. Chain-adjusting device for cycles	632,711	Sept. 12	964	223	88	1912
Ganswindt, Hermann, Schöneberg, Germany. Driving mechanism for unicycles	638,963	Dec. 12	1430	327 328	89	2166
Ganter, Francis X., Baltimore, Md. Show-case	638,454	Dec. 5	514	106	89	1965
Gantke, Hugo, Berlin, Germany. Illuminating contrivance	639,724	Dec. 26	2841	654	89	2478
Gantt, Henry L., Fitchburg, Mass. Mold for steel ingots	621,646	Mar. 21	2041	456	86	1922
Gantt, Henry L., assignor to Simonds Rolling Machine Company, Fitchburg, Mass. Ball-grinding machine	618,502	Jan. 31	3146	695	86	675
Gantt, James M. (See Gantt, William N. and J. M.)						
Gantt, William N. and J. M., Liberty, S. C. Wagon-brake	636,131	Oct. 31	4090	936	89	867
Gapen, Charlie. (See Hewitt and Gapen.)						
Garand, Ubalde. (See Caron, Louis A., assignor.)						
Garber, Ira A., and U. Beall, assignors to themselves, W. T. and O. W. Pritchett, Baltimore, Md. Car-coupling	619,559	Feb. 14	1386	319	86	1099
Garber, James N., Bays, Ohio. Ventilator	630,341	Aug. 8	1153	252	88	965
Garbers, John, Chapman, Nebr. Mail-bag catcher	634,131	Oct. 3	280	68	89	59
Garcelon, Fred M., Lewiston, and W. V. Threlfall, Biddeford, Me., assignors to Saco & Pettee Machine Shops, Biddeford, Me., and Newton, Mass. Split bush-bearing for lifting-rods	639,028	Dec. 12	1551	356	89	2189
Garcia, Raphael B., assignor of one-half to C. F. Kabisch, New York, N. Y. Bicycle-pedal	622,947	Apr. 11	1374	315	87	280
Gardam, Joseph. (See Gardam, Joseph W. A., assignor.)						
Gardam, Joseph. (See Hull and Burchett, assignors.)						
Gardam, Joseph, New York, N. Y. Toy	620,904	Mar. 14	685	150	86	1648
Gardam, Joseph W. A., assignor of one-half to J. Gardam, New York, N. Y. Number-assembling device for recorders or registers	629,349	July 25	2601	603	88	559
Gardam, Joseph W. A., and F. J. Hull, New York, N. Y., assignors to O. Cullison, York, Pa. Car-fender	637,725	Nov. 21	3231	672 673	89	1643
Garde, James B., assignor to W. C. Peacock, Melbourne, Victoria. Rotary-disk plow	619,560	Feb. 14	1388	319	86	1099
Garder, Torval N., Marinette, Wis. Ladder	622,847	Apr. 11	1202	279	87	247
Gardiner, C. C. (See Shoecraft, Judson, assignor.)						
Gardiner, John, Philadelphia, Pa., assignor to Biddle Purchasing Company, Philadelphia, Pa., and Camden, N. J. Wrench	618,859	Feb. 7	73	15	86	818
Gardiner, John E., *et al.* (See Bell, Joseph M., assignor.)						
Gardiner, Robert J., Rochester, N. Y. Lasting-machine	622,846	Apr. 11	1199	279	87	247
Gardiner, Thomas W. (See Niles, Walter L. C., assignor.)						
Gardiner, William G., Toledo, Ohio. Bung-hole and bushing	632,457	Sept. 5	454	101	88	1797
Gardner, Abby D. (See Taylor, Benjamin F., assignor.)						
Gardner, Augustus H., assignor, by mesne assignments, to Twisted Wire Box Strap Company, New York, N. Y. Pail-hook or corner-iron	634,290	Oct. 3	604	148	89	121
Gardner, Charles L., assignor to J. I. Case Threshing Machine Company, Racine, Wis. Grain-weigher	625,971	May 30	3679	836	87	1494
Gardner, Daniel, Newburg, N. Y. Sash lift and lock	634,332	Oct. 3	698	167	89	140
Gardner, Edwin P., assignor of one-half to T. Kelly, Norwich, Conn. Acetylene-gas generator	621,647	Mar. 21	2043	456	86	1922
Gardner, Edwin P., assignor of one-half to T. Kelly, Norwich, Conn. Acetylene-gas-generating apparatus	621,648	Mar. 21	2045	456	86	1923
Gardner, Elmer E., and J. G. Smith, New York, N. Y. Inhaler	639,808	Dec. 26	3003	691	89	2511
Gardner, Felix G., Celeste, Tex. Pump	624,642	May 9	1273	284	87	969
Gardner, Frank L. (See Thwaite, Benjamin H., assignor.)						
Gardner, Frederick N., Beloit, Wis., assignor to C. H. Besly, Chicago, Ill. Grinding and polishing device	623,897	Apr. 25	3144	724	87	660
Gardner, George L., assignor to R. H. Dicks, Dayton, Ohio. Scrubber	632,683	Sept. 5	899	209	88	1888
Gardner, Henry, Braintree, assignor of one-half to S. A. Dinsmore, Boston, Mass. Clothes-drier	620,905	Mar. 14	687	150	86	1648
Gardner, Henry R., *et al.* (See Ennis, George H., assignor.)						
Gardner, Jefferson M., New London, Conn. Roll-box-adjusting mechanism for cotton-seed linters and gins	631,293	Aug. 22	2913	660	88	1347
Gardner, Jennie, Springfield, Ohio. Lady's skirt	631,849	Aug. 29	3939	881	88	1559
Gardner, John H., Dalton, Ga. Threshing-machine	634,663	Oct. 10	1277	302	89	272
Gardner, John P., Middleburg, Md. Weather-strip	622,138	Mar. 28	2981	673	86	2121
Gardner, John W., Quincy, Ill. Combined speed and pressure governor	638,412	Dec. 5	436	90	89	1948
Gardner, John W., and A. E. Grant, Troy, N. Y. Mechanism for steaming collars	638,706	Dec. 12	993	221	89	2079
Gardner, Levi S., New Orleans, La., assignor of one-half to W. S. McCay, Grand Rapids, Mich. Exhaust-muffler	620,867	Mar. 7	619	135	86	1624

Alphabetical list of patentees—Continued.

Name, residence, and invention.	No.	Date.	Monthly volume.		Official Gazette.	
			Spec.	Dr'g.	Vol.	Page.
Gardner, Oliver L., New York, N. Y. Manufacture and product of artificial lumber	631,742	Aug. 22	3735	839, 840	88	1509
Gardner, Oliver L., New York, N. Y. Apparatus for making artificial lumber	631,743	Aug. 22	3741	840	88	1509
Gardner, Richard B. G., Philadelphia, Pa. Device for aiding cure of stammering	625,879	May 30	3518	799	87	1463
Gardner, Samuel S., *et al.* (See Miller, James, assignor.)						
Gardner, Willard S., *et al.* (See Davis, Sylvanus E., assignor.)						
Garey, Edward S., *et al.* (See Campbell, George L., assignor.)						
Gare, Thomas, Stockport, England. Lasting-machine	632,458	Sept. 5	455	102	88	1797
Garhart, Nathan K., Indianapolis, Ind. Electrical controller	621,241	Mar. 14	1312	290, 291	86	1769
Garis, Cornelius W., assignor of one-third to P. G. Klingler, Easton, Pa. Button-machine	621,453	Mar. 21	1693	375	86	1854
Garland, Frank M., New Haven, Conn. Automatic machine-gun	623,003	Apr. 11	1473	340, 341, 342	87	300
Garland, Frank M., New Haven, Conn. Ammunition-belt	623,243	Apr. 18	1935	444	87	405
Garland, Frank M., New Haven, Conn. Speed-controlling device for automatic machine-guns	636,975	Nov. 14	1431	307	89	1236
Garland, Frank M., New Haven, Conn. Regulating device for automatic machine-guns	636,976	Nov. 14	1434	307, 308	89	1236
Garland, Frank M., New Haven, Conn. Automatic machine-gun	636,977	Nov. 14	1435	308, 309, 310	89	1237
Garland, Frank M., New Haven, Conn. Cartridge-box	636,978	Nov. 14	1441	310	89	1238
Garland, Frank M., New Haven, assignor of two-thirds to E. B. Beecher, Westville, Conn. Automatic operating mechanism for machine-guns	636,974	Nov. 14	1428	306	89	1235
Garland, William H., Kansas City, Mo. Shade-fixture	623,535	Apr. 25	2467	568	87	531
Garland, William S., Loanhead, Scotland. Fuel or coal saver	625,754	May 30	3261	------	87	1414
Garlick, William, D. Murray, and A. O. Howse, Wingham, New South Wales. Combination ax and cutter	618,658	Jan. 31	3429	764	86	730
Garlock, Judson D., assignor of one-half to Garlock Packing Company, Palmyra, N. Y. Circuit-closer	617,287	Jan. 3	810	189	86	160
Garlock Packing Company. (See Garlock, Judson D., assignor.)						
Garner, Frank E., Longmeadow, Mass. Wheel-hub and axle connection	619,561	Feb. 14	1390	319, 320	86	1100
Garner, James E. (See Johnson, Isaac R., assignor.)						
Garner, Joseph H., assignor of one-half to L. I. Schreffler, Tamaqua, Pa. Rotary engine	628,086	July 4	234	53, 54	88	47
Garner, Stephen E., Powderly, Tex. Ditching-level	616,912	Jan. 3	87	18	86	19
Garnier, Edmond, assignor of three-fourths to A. Raymond, London, England. Manufacture of rubber or other gums	621,060	Mar. 14	991	------	86	1705
Garr, Horace S., assignor of one-half to C. F. Hunter, Los Angeles, Cal. Rapid closing and sealing device for jars, bottles, or other vessels	625,391	May 23	2618	595	87	1271
Garratt, James H., Groton, N. Y. Workman's time-recorder	620,906	Mar. 14	688	151, 152	86	1648
Garratt, James H., Groton, N. Y. Workman's time-recorder	632,712	Sept. 12	965	223, 224	88	1912
Garretson, Albert D., Buffalo, N. Y. Crib for docks	637,726	Nov. 21	3235	673	89	1643
Garretson, Charles E., Dallas, Tex. Window-shade attachment	633,582	Sept. 26	2626	614	88	2262
Garrett-Buchanan Company. (See Schumann, Charles, assignor.)						
Garrett, George A., Philadelphia, Pa. Dumping-wagon	621,406	Mar. 21	1602	355	86	1837
Garrett, George K., *et al.* (See Baldwin, Chalkley B., assignor.)						
Garrett, George R., Wilmington, Del. Package-carrier	636,401	Nov. 7	291	65	89	979
Garrett, Henry, Dallas, Tex. Timing apparatus for trolley-railway systems	617,010	Jan. 3	282	63	86	56
Garrett, James, and J. H. Welch, Monaca, Pa. Brick-machine	631,630	Aug. 22	3534	796	88	1471
Garrett, John A., Kansas City, Mo. Transplanting tree-clamp	621,405	Mar. 21	1600	354	86	1837
Garrett, William. (See Cromwell, John C., assignor.)						
Garrett, William, Cleveland, Ohio. Gas-producer	635,313	Oct. 24	2464	573	89	535
Garrett, William, assignor of one-half to J. C. Cromwell, Cleveland, Ohio. Guide for rolls	629,718	July 25	3281	765	88	693
Garrigan, Thomas J., Boston, Mass. Beads	620,238	Feb. 28	2637	601	86	1377
Garrison, D. E., Sr. (See Johnson, Albert L., assignor.)						
Garrison, Thomas S., assignor, by mesne assignments, to Casket Lid Adjustment Company, Indianapolis, Ind. Burial-casket. (Reissue)	11,741	May 16	2471	561	87	1216
Garson, Julius H., Denver, Colo. Pipe-wrench	632,257	Sept. 5	89	19	88	1724
Garst, Dudley. (See Garst, Stephen H. and D.)						
Garst, Julius. (See Harthan, Warren P., assignor.)						
Garst, Stephen H., assignor to American Harrow Company, Detroit, Mich. Cultivator	621,649	Mar. 21	2047	456	86	1923
Garst, Stephen H. and D., assignors to American Harrow Company, Detroit, Mich. Harrow	626,059	May 30	3891	884	87	1532
Garst, Stephen H. and D., assignors to American Harrow Company, Detroit, Mich. Cultivator	629,499	July 25	2889	672, 673	88	618
Gartner, Alfred, assignor to B. Eastwood, Paterson, N. J. Loom	626,898	June 13	1293	284	87	1882
Gartner, Alfred, Paterson, N. J., assignor to Schaum & Uhlinger, Philadelphia, Pa. Ribbon-loom	636,979	Nov. 14	1443	310	89	1239
Gartz, Mary L., *et al.* (See Gartz, William H., assignor.)						
Gartz, William H., assignor to A. Wright and M. L. Gartz, Bernardsville, N. J. Dry-dock	634,554	Oct. 10	1095	259, 260, 261	89	236
Garuti, Pompeo, and R. Pompili, Naples, Italy. Apparatus for producing oxygen and hydrogen	629,070	July 18	2091	488	88	445
Garver, Joseph E., Rollersville, Ohio. Apparatus for drawing pump-rods from wells	618,341	Jan. 24	2819	626	86	598
Garver, Martin V., Bryan, Ohio. Wheelbarrow-tray	634,450	Oct. 10	909	218	89	199
Garvey, Edgar L., Gainesville, Tex. Motor	631,711	Aug. 22	3680	825	88	1498
Garvey, James B. (See McDonald, Patrick F., assignor.)						
Garvey, John C., Seattle, Wash. Thawing-hood	633,691	Sept. 26	2824	656	88	2301
Garvey, Owen F. (See McOsker and Garvey.)						
Garvey, Owen F., assignor to United States Safety Gas Cock Company, Providence, R. I. Automatic chuck	635,243	Oct. 17	2331	544	89	494
Garwood, Charles B., assignor to Carr-Lowrey Glass Company, Baltimore, Md. Bottle-molding device	624,920	May 16	1784	402	87	1087
Gary, Theodore J., Oregon City, Oreg. Book-holder	639,370	Dec. 19	2193	507	89	2331
Gas and Sulphate Producer. (See Fielding, John, assignor.)						
Gas-Motoren-Fabrik-Deutz. (See Neumann, Hans, assignor.)						
Gasau, Richard. (See Everitt, Robert J., assignor.)						
Gaskill, Charles W., Philadelphia, Pa. Device for moistening and sealing envelops	626,899	June 13	1294	234	87	1882
Gaskill, Elijah T., assignor to New Bern Mattress Machine Company, New Berne, N. C. Mattress-stitching machine	621,650	Mar. 21	2048	457	86	1923
Gaskins, Thomas, Arcadia, Fla. Device for holding eyeglass or spectacle cases	632,561	Sept. 5	652	151	88	1836
Gasparine, Paul, Chicago, Ill. Toy puzzle	619,951	Feb. 21	2125	481	86	1267
Gaston, George P., Silver Creek, N. Y. Acetylene-gas generator	637,727	Nov. 21	3237	674	89	1644

Alphabetical list of patentees—Continued.

Name, residence, and invention.	No.	Date.	Monthly volume.		Official Gazette.	
			Spec.	Dr'g.	Vol.	Page.
Gasz, Louis, New York, N. Y. Valve	635,537	Oct. 24	2922	667	89	625
Gately, Patrick, New York, N. Y. Engine	621,916	Mar. 28	2572	579	86	2040
Gaterman, William, Newton, Wis. Mower attachment	627,931	June 27	3193	699	87	2297
Gates, Albert M. (See Perry, James S., assignor.)						
Gates, Alfonso D., Cleveland, Ohio. Railway-rail	636,789	Nov. 14	1077	230	89	1166
Gates, Alfonso D., Cleveland, Ohio. Roll for mitering ends of railway-rails	636,790	Nov. 14	1079	230, 231	89	1166
Gates, Elmer, Chevy Chase, Md. Simultaneously cooling air and purifying and regulating its moisture and apparatus therefor	636,255	Nov. 7	46	11, 12	89	934
Gates, Elmer, Chevy Chase, Md. Apparatus for simultaneously purifying, cooling, and regulating moisture of air	636,256	Nov. 7	55	12, 13	89	934
Gates, Freemont D., Albion, Nebr. Stove	639,029	Dec. 12	1552	356	89	2189
Gates, George, Jackson, Cal. Concentrating-belt	626,461	June 6	451	106	87	1701
Gates Iron Works. (See Capen, Thomas W., assignor.)						
Gates Iron Works. (See Carman, Charles L., assignor.)						
Gates Iron Works. (See Gates, Philetus W., assignor.)						
Gates Iron Works. (See Hanna and Capen, assignors.)						
Gates Lacing Hook Company. (See Gates, William H., assignor.)						
Gates, Olive, New York, N. Y. Theatrical stage appliance	617,154	Jan. 3	570	134	86	112
Gates, Philetus W., assignor to Gates Iron Works, Chicago, Ill. Rock and ore breaker	618,860	Feb. 7	75	16	86	819
Gates, Virgil A., Charleston, W. Va. Wheelbarrow	620,580	Mar. 7	52	10	86	1512
Gates, Virgil A., Charleston, W. Va. Shallow-water propeller	634,664	Oct. 10	1280	302	89	273
Gates, William C., Auburn, N. Y. Bicycle-saddle	628,704	July 11	1440	334	88	300
Gates, William H., Detroit, Mich. Brush-making machine	625,755	May 30	3261	740	87	1414
Gates, William H., Baltimore, Md., assignor to Gates Lacing Hook Company, Wilmington, Del. Shoe and fastening device therefor	636,515	Nov. 7	496	110	89	1022
Gates, William H., Baltimore, Md., assignor to Gates Lacing Hook Company, Wilmington, Del. Lacing-cord fastener	636,516	Nov. 7	498	111	89	1022
Gatewood, William F., assignor to F. B. Tait Manufacturing Company, Decatur, Ill. End-gate for wagon-beds	634,555	Oct. 10	1100	261	89	237
Gathmann, Louis, assignor to Gathmann Torpedo Gun Company, Chicago, Ill. Torpedo-shell for high explosives	639,227	Dec. 19	1915	440	89	2273
Gathmann Torpedo Gun Company. (See Gathmann, Louis, assignor.)						
Gathright, Josiah B., Louisville, Ky. Trace-carrier	628,529	July 11	1097	255	88	231
Gatling, Richard J., New York, N. Y. Rein-controlling means	634,451	Oct. 10	910	218	89	199
Gatrell, Ottmar A., Columbus, Ohio, assignor of one-half to R. Baum. Voting-machine	617,734	Jan. 17	1658	373, 374	86	363
Gatrell, Ottmar A., Columbus, Ohio, assignor to E. M. Ingold. Cash-register	622,617	Apr. 4	773	179, 180	87	147
Gatrell, Ottmar A., assignor to E. M. Ingold, Columbus, Ohio. Voting-machine	631,251	Aug. 15	2835	639, 640	88	1315
Gatzsche, Franz, Freiberg, Germany, assignor to "N. L." Syndicate, Limited, London, England. Composition of matter for soles and heels of boots or shoes	636,657	Nov. 7	776	------	89	1079
Gatzsche, Franz, Freiburg, Germany, assignor to "N. L." Syndicate, Limited, London, England. Composition for making floor-cloth	637,106	Nov. 14	1676	------	89	1283
Gauch, Orlando S., *et al.* (See Chapleau, Wildric, assignor.)						
Gauch, Orlando S., *et al.* (See Pauli, Emil A., assignor.)						
Gaulin, Auguste, Paris, France. Sealed lid for milk-cans, meat-cans, or the like	625,497	May 23	2806	639, 640	87	1307
Gaunt, Thomas, Peoria, Ill. Filtering oil	623,536	Apr. 25	2469	------	87	532
Gaunt, Thomas, Peoria, Ill., assignor of two-thirds to W. and H. Hamlin, Buffalo, N. Y. Manufacture of starch	638,707	Dec. 12	994	221	89	2079
Gauthier, Joseph, St. Johnsbury, Vt. Holdback-hook	636,791	Nov. 14	1082	231	89	1167
Gautier, Ferdinand P., assignor to A. F. David, Paris, France. Petroleum or similar motor	630,213	Aug. 1	894	197	88	899
Gautier, Louis M., St. Malo, France. Mechanical movement	620,439	Feb. 28	2980	682, 683	86	1443
Gautier, Paul, Paris, France. Machine for forming optical surfaces	639,371	Dec. 19	2194	507	89	2331
Gauvreau, Adelbert, *et al.* (See Filteau, Peter, assignor.)						
Gaveau, Henri L., Paris, France. Type-writing machine	624,323	May 2	701	154, 155	87	835
Gavett, William A., assignor to United States Mile Board Advertising Company, Detroit, Mich. Sign-board	638,233	Dec. 5	50	12	89	877
Gavin, Edward J., Pontiac, Ill. Carriage	621,336	Mar. 21	1493	330	86	1817
Gavin, John A., Rock Island, Ill. Ventilator	637,863	Nov. 28	3509	732	89	1719
Gavin, John J., New York, N. Y. Line-chalker	627,057	June 13	1567	342	87	1936
Gavitt, James A., Waitsburg, assignor of one-third to F. B. Chapman, Pomeroy, Wash. Harness-buckle	632,996	Sept. 12	1476	343	88	2013
Gawne, Orville M., C. H. White, and W. E. Cook, Adrian, Mich. Window-shade holder	626,785	June 13	1047	235	87	1836
Gawron, Josef, Berlin, Germany. Closing device for cans, pitchers, &c	616,913	Jan. 3	88	18	86	19
Gay, Elmer I., assignor of one-half to G. B. Bates, Quincy, Mass. Tag	637,201	Nov. 14	1890	406	89	1323
Gay, George L., assignor of one-half to F. E. Starkey, Spokane, Wash. Wrapping-machine	634,333	Oct. 3	700	167, 168	89	140
Gay, William A., Terryville, Conn. Musical toy	621,061	Mar. 14	992	216	86	1705
Gaylor, Leonard B. (See Bauroth, Leonhard, assignor.)						
Gaylor, Leonard B., Erie, Pa. Bicycle	617,329	Jan. 10	899	209	86	194
Gaylor, Leonard B., Erie, Pa. Handle-bar for bicycles	624,643	May 9	1274	285	87	969
Gaylor, Leonard B., Erie, Pa. Crank attachment for bicycles	626,227	June 6	22	5	87	1619
Gaylord, Arthur C., Sandoval, Ill. Colter-clamp	630,679	Aug. 8	1814	408	88	1088
Gaylord, Arthur C., Sandoval, Ill. Colter	630,680	Aug. 8	1815	409	88	1088
Gaylord, Frank E., *et al.* (See Taber, William C., assignor.)						
Gaylord, Harvey R., assignor to Spencer Lens Company, Buffalo, N. Y. Freezing device for microtomes	633,310	Sept. 19	2115	496	88	2150
Gaylord, Harvey R., assignor to Spencer Lens Company, Buffalo, N. Y. Filter	633,311	Sept. 19	2116	496	88	2150
Gaylord, John F., Portsmouth, assignor of two-thirds to J. E. Cole and R. W. Shultice, Norfolk, Va. Non-refillable bottle	631,252	Aug. 15	2837	640	88	1315
Gays, Henry W., St. Louis, Mo. Carline	619,952	Feb. 21	2126	481	86	1267
Gazell, Henry W. (See Harris, Gazell, and Vogel.)						
Gear, Alonzo S., New York, N. Y. Apparatus for supplying water	618,224	Jan. 24	2616	578, 579	86	559
Gebhard, George. (See Bankmann and Gebhard.)						
Gebhardt, Julius F., New York, N. Y. Curtain-pole	638,179	Nov. 28	4111	868	89	1838
Gebhardt, William, San Antonio, Tex. Machine for rebending crown caps or seals for bottles	631,785	Aug. 29	3836	854	88	1538
Gebhart, Jacob L., Hot Springs, Ark. Acetylene-gas generator	617,246	Jan. 3	726	168	86	142
Geck, Theodor. (See Harmann, Carl, assignor.)						
Gedeon, Joseph. (See Kundtz and Gedeon.)						
Gee, Horace L. (See Wilkinson and Gee.)						
Geen, James, Hoboken, N. J. Gas-vending machine	616,914	Jan. 3	89	19	86	19

Alphabetical list of patentees—Continued.

Name, residence, and invention.	No.	Date.	Monthly volume. Spec.	Monthly volume. Dr'g.	Official Gazette. Vol.	Official Gazette. Page.
Geer, Letitia M., New York, N. Y. Syringe	622,848	Apr. 11	1203	280	87	248
Geer, Mary R., New York, N. Y. Rack for frying fish	629,127	July 18	2207	511	88	467
Geer, Orlando V., Simpson, Minn. Nut-lock	625,667	May 23	3094	704	87	1364
Geers, John H., St. Louis, Mo. Washing-machine	639,167	Dec. 12	1778	412	89	2233
Gefrorer, Henry, Philadelphia, Pa. Gas sad-iron	621,062	Mar. 14	994	216	86	1705
Gehre, Fritz, Zurich, Switzerland, assignor of one-half to E. Germain, Los Angeles, Cal. Manufacturing roofs without seams	625,723	May 23	3184	723	87	1381
Gehre, Max, Rath, Germany. Device for producing electric currents at sea by the action of waves	628,457	July 11	948	221	88	202
Gehre, Max, Rath, Germany. Wave-motor	628,458	July 11	949	221, 222	88	202
Geiger, Frank, Patoka, Ill. Sunshade for buggies	630,497	Aug. 8	1485	332	88	1025
Geiger, Frank, Domerville, Ohio. Car-coupling	636,428	Nov. 7	340	76	89	990
Geiger, Herman. (See Waterbury, Jonathan, assignor.)						
Geiger, Joseph, Uerdingen, assignor to Kathreiner's Malzkaffee Fabriken Gesellschaft mit Beschränkter Haftung, Munich, Germany. Preparing malt coffee	632,108	Aug. 29	4413	991	88	1652
Geiger, William H. I., Denver, Colo. Electric belt	623,659	Apr. 25	2684	616	87	571
Geigy & Co., John R. (See Ris, Christopher, assignor.)						
Geigy & Co., John R. (See Simon, Charles, assignor.)						
Geisel, John E. G., Weissport, Pa. Sleigh-runner attachment for vehicles	621,242	Mar. 14	1315	292	86	1769
Geisel, John E. G., Weissport, Pa. Sleigh attachment for vehicles	627,995	July 4	71	13, 14	88	15
Geisenberger, Joseph, Philadelphia, Pa. Apparatus for cooling and purifying air under pressure	638,327	Dec. 5	263	54	89	1916
Geisendorff, Lee H., and A. M. Maguire, Indianapolis, Ind. Cutter for floor-cloths, &c	625,550	May 23	2899	659	87	1326
Geisenhöner, Henry, Schenectady, N. Y., assignor to General Electric Company, of New York. Trolley-ear	620,907	Mar. 14	692	152	86	1649
Geisenhöner, Henry, Schenectady, N. Y., assignor to General Electric Company, of New York. Space-block for laminated armatures	631,786	Aug. 29	3838	854	88	1539
Geiser, Daniel S., Waynesborough, Pa. Electrician's tool	631,112	Aug. 15	2587	584, 585	88	1264
Geiser, Daniel S., Waynesborough, Pa. Combination-tool	631,113	Aug. 15	2591	585	88	1265
Geiser Manufacturing Company. (See Anderson, Gustaf A., assignor.)						
Geissler, Carl, Stassfurt, Germany. Automatic sampling apparatus for grain, &c	632,713	Sept. 12	967	224	88	1913
Gelabert, William P., Sweet Springs, Mo. Sash-lock	617,330	Jan. 10	901	209	86	195
Gelatt, James M. (See Chapman and Gelatt.)						
Gelatt, James M., *et al.* (See Gelatt, Philo M., assignor.)						
Gelatt, Philo M., assignor to L. M. Chapman and J. M. Gelatt, Louisville, Ky. Web-printing machine	639,168	Dec. 12	1781	412, 413	89	2234
Gelinas, P. Hugues. (See Girard, Jean B., assignor.)						
Gelly, Joseph C., Paris, France. Hydraulic ram	624,921	May 16	1785	402	87	1087
Gelly, Joseph C., Noisy-le-Sec, France. Hydraulic ram	640,125	Dec. 26	3570	821	89	2626
Gem Fibre Package Company (See Thomson, William B., assignor.)						
Gem Manufacturing Company. (See Pelton, Josiah J., assignor.)						
Gem Needle Threader Company. (See Darling, John, assignor.)						
Gemmill, Worthy D., Worcester, Mass. Vehicle-hub	638,387	Dec. 5	383	81	89	1939
Gendron Wheel Company. (See Diemer, William, assignor.)						
General American Reduction Company. (See Rissmuller, Ludwig, assignor.)						
General Automatic Delivery Company. (See Moser and Phipps, assignors.)						
General Compressed Air Company. (See Hardie, Robert, assignor.)						
General Electric Company. (See Berg, Ernst J., assignor.)						
General Electric Company. (See Buck, Harold W., assignor.)						
General Electric Company. (See Case, Frank E., assignor.)						
General Electric Company. (See Cox, Frank P., assignor.)						
General Electric Company. (See Cravath, James R., assignor.)						
General Electric Company. (See Fish, Walter C., assignor.)						
General Electric Company. (See Fish and Cox, assignors.)						
General Electric Company. (See Fleming, Richard, assignor.)						
General Electric Company. (See Forster, Samuel S., assignor.)						
General Electric Company. (See Geisenhöner, Henry, assignor.)						
General Electric Company. (See Grindrod, John R., assignor.)						
General Electric Company. (See Harthan, Charles E., assignor.)						
General Electric Company. (See Haskins, Caryl D., assignor.)						
General Electric Company. (See Hewlett, Edward M., assignor.)						
General Electric Company. (See Hood, Ralph O., assignor.)						
General Electric Company. (See Hunter, Rudolph M., assignor.)						
General Electric Company. (See Johnston, Thomas J., assignor.)						
General Electric Company. (See Johnston and Abell, assignors.)						
General Electric Company. (See Larson, Carl W., assignor.)						
General Electric Company. (See Libby, Sam H., assignor.)						
General Electric Company. (See Mackintosh, Frederick, assignor.)						
General Electric Company. (See Morgan, Jacque L., assignor.)						
General Electric Company. (See Oxley, Eustace, assignor.)						
General Electric Company. (See Potter, William B., assignor.)						
General Electric Company. (See Potter and Case, assignors.)						
General Electric Company. (See Prentiss, Irving R., assignor.)						
General Electric Company. (See Priest, Edward D., assignor.)						
General Electric Company. (See Potter, William B., assignor.)						
General Electric Company. (See Reist, Henry G., assignor.)						
General Electric Company. (See Rice, Edwin W., Jr., assignor.)						
General Electric Company. (See Rice and Steinmetz, assignors.)						
General Electric Company. (See Spinney, Henry C., assignor.)						
General Electric Company. (See Steinmetz, Charles P., assignor.)						
General Electric Company. (See Steinmetz and Berg, assignors.)						
General Electric Company. (See Thomson, Elihu, assignor.)						
General Electric Company. (See Willard, Ben, assignor.)						
General Electric Company. (See Wirt, Herbert C., assignor.)						
General Electric Company. (See Wood, James J., assignor.)						
General Equipment Company. (See Goldey, Paul R., assignor.)						
General Gold Extracting Company. (See Pelatan, Louis, assignor.)						
General Incandescent Arc Light Company. (See Bergmann, Sigmund, assignor.)						
General Incandescent Arc Light Company. (See Klein, Charles J., assignor.)						
General Incandescent Arc Light Company. (See Swoboda, Hans O., assignor.)						
General Liquid Air and Refrigerating Company. (See Ostergren and Burger, assignors.)						
Genese, David, Baltimore, Md. Acetylene-gas generator	638,328	Dec. 5	263	55	89	1916
Genett, Louis J., Marquette, Mich. Toy	620,908	Mar. 14	693	152	86	1649

Alphabetical list of patentees—Continued.

Name, residence, and invention.	No.	Date.	Monthly volume. Spec.	Monthly volume. Dr'g.	Official Gazette. Vol.	Official Gazette. Page.
Geneva Cycle Company. (See Castle, William H., assignor.)						
Geneva Cycle Company. (See Seymour, Lucien, assignor.)						
Geneva Optical Company. (See Prentice, Chalmers, assignor.)						
Geneva Optical Company. (See Rhodes, Seth A., assignor.)						
Geneva Optical Company. (See Smith, Fred H., assignor.)						
Genge, Fred C., Minneapolis, Minn. Combined sofa-bed	624,008	May 2	100	21	87	722
Gennert, Emil F., New York, N. Y. Machine for grinding glass articles	634,452	Oct. 10	912	218, 219	89	200
Gennert, Emil F., assignor to E. P. Gleason Manufacturing Company, New York, N. Y. Reflector for incandescent lamps	639,372	Dec. 19	2195	507	89	2332
Gennert, Gustave C., Elizabeth, N. J. Temporary binder	636,033	Oct. 31	3869	889	89	822
Gensemer, John E. (See Moore, Davis L., Jr., assignor.)						
Gent, John R. (See Green and Gent.)						
Gent, John T., A. W. Staveley, and I. H. Parsons, Leicester, England. Telephone. (Reissue)	11,719	Feb. 21	2371	537	86	1313
Gent, Joseph F., Indianapolis, Ind. Seal-press	638,841	Dec. 12	1218	274	89	2123
Gent, William A. (See Richardson, Jevons, and Gent.)						
Gentner, Karl, Frankenthal, Germany. Standard-holder	626,607	June 6	692	160	87	1749
Gentry, Matthew, Ashkum, Ill. Draft-equalizer	630,880	Aug. 15	2152	489	88	1188
Gentry, Oliver H., New York, N. Y. Bicycle	636,792	Nov. 14	1083	232	89	1167
Gentry, Oliver H., assignor to J. R. Shipherd, trustee, New York, N. Y. Driving-belt for sprocket-wheels	618,083	Jan. 24	2349	525	86	510
Gentzsch, Adolf, Vienna, Austria-Hungary. Plastic felt	637,776	Nov. 28	3329	------	89	1681
Geo. Borgfeldt & Company. (See Wundes, Abraham, assignor.)						
Geo. F. Blake Manufacturing Company. (See Laval, George de, assignor.)						
Geo. L. Thompson Manufacturing Company. (See Halifax, John B., assignor.)						
Geo. L. Thompson Manufacturing Company. (See Halifax, Joseph N., assignor.)						
Geo. L. Thompson Manufacturing Company. (See Smith, Charles H., assignor.)						
Geo. L. Thompson Manufacturing Company. (See Taintor, Myron F., assignor.)						
Geometric Drill Company. (See Smith, William J., assignor.)						
George, Arthur L., Johnstown, Pa., assignor to Lorain Steel Company, of Pennsylvania. Derailing-switch	639,373	Dec. 19	2196	508	89	2332
George, Arthur L., Johnstown, Pa., assignor to Lorain Steel Company, of Pennsylvania. Derailing-switch	639,374	Dec. 19	2200	508	89	2333
George Ertel Company. (See Ertel, George, assignor.)						
George, Ira M., New York, N. Y. Hammock-sling	624,324	May 2	702	155	87	835
George, Japhus, Ithaca, and C. M. Shortle, Bernhard's Bay, N. Y. Process of and apparatus for manufacturing sheet-glass	618,861	Feb. 7	77	16	86	819
George, Japhus, Ithaca, and C. M. Shortle, Bernhard's Bay, N. Y. Apparatus for manufacturing glass	635,041	Oct. 17	1943	461	89	419
George, Jerome R., Chicago, assignor of one-half to C. L. Miller, Joliet, Ill. Engine	630,881	Aug. 15	2153	489, 490	88	1180
George M. Clark & Company. (See Thayer, William H., assignor.)						
George, Virgil M., Zanesville, Ohio. Bathing apparatus	619,953	Feb. 21	2129	481, 482	86	1267
George, William J., assignor of one-half to C. Leventry, Johnstown, Pa. Electric railway	621,492	Mar. 21	1763	394	86	1867
George, William W., Irwin, Pa. Car-brake	619,562	Feb. 14	1392	320	86	1100
George, Zachary T., administrator. (See Wilson, John C.)						
Georgii, Gustaf G. (See Severin, Conrad G., assignor.)						
Gepford, William, West Salem, Ohio. Thill-coupling	638,109	Nov. 28	3974	836	89	1809
Geppert, William. (See Wankel, Frank, assignor.)						
Gérard, Louis L. H. (See Macé and Gérard.)						
Gerau, George B. (See Hodsdon and Gerau.)						
Gerber, Cornelius, *et al.* (See Durham and Devine, assignors.)						
Gerber, D. Milton, *et al.* (See Durham and Devine, assignors.)						
Gerdes, Reinhardt M., Pekin, Ill. Top-box fastener for wagons	634,291	Oct. 3	605	148	89	121
Gerdom, Andrew H., Albany, N. Y. Device for retaining liquid or viscous substances	626,021	May 30	3829	868	87	1522
Gere, William B., assignor to Merrell-Soule Company, Syracuse, N. Y. Soup-powder and making same	625,880	May 30	3519	------	87	1464
Gere, William B., and I. S. Merrell, assignors to Merrell-Soule Company, Syracuse, N. Y. Evaporator	631,568	Aug. 22	3432	775, 776	88	1450
Gereckey, Louis W., assignor of two-fifths to A. C. Schafer, Pueblo, Colo. Metallic railway-tie and rail-fastener	618,565	Jan. 31	3260	724	86	696
Gereckey, Louis W., assignor of two-fifths to A. C. Schafer, Pueblo, Colo. Metallic railway-tie and rail-fastener	618,566	Jan. 31	3262	724	86	696
Gereckey, Louis W., assignor of two-fifths to A. C. Schafer, Pueblo, Colo. Metallic railway-tie and support	618,567	Jan. 31	3263	724	86	697
Gereckey, Louis W., assignor of two-fifths to A. C. Schafer, Pueblo, Colo. Metallic railway-tie and rail-fastener	635,538	Oct. 24	2923	667	89	625
Gerhardt, Oscar. (See Hellbardt and Gerhardt.)						
Gerlach, Charles F. (See Rockwell and Gerlach.)						
Gerlach, Peter, Cleveland, Ohio. Sod-trimmer	620,909	Mar. 14	694	152	86	1650
Gerlach, Frank W., Kenton, Ohio. Spike-puller	635,924	Oct. 31	3667	846	89	782
Germain, Eugene. (See Gehre, Fritz, assignor.)						
Germaine, Eugéne, Paris, France. Hub for wheels of velocipedes, &c	628,791	July 11	1590	366	88	331
Germaine, Eugéne, assignor to himself and J. Sternberg, Paris, France. Velocipede-pedal	623,399	Apr. 18	2221	509	87	463
German, Albert F., Louisville, Ky. Hook and eye	633,718	Sept. 26	2870	667	88	2310
German, Albert F., Louisville, Ky. Suspenders	635,314	Oct. 24	2465	573	89	535
Germann, Emil. (See Buckingham and Germann.)						
Germanson, Gilbert F. (See Hoehne, Ferdinand F., assignor.)						
Germanson, Julius M., assignor to Western Malleable and Grey Iron Manufacturing Company, Milwaukee, Wis. Revolving chair	629,676	July 25	3201	746	88	678
Germanson, Julius M., assignor to Western Malleable and Grey Iron Manufacturing Company, Milwaukee, Wis. Revolving chair	635,764	Oct. 31	3350	775	89	721
Germer, Edward G., Erie, Pa. Boiler-furnace	624,786	May 9	1524	347	87	1020
Gerő, Louis, Buda-Pesth, Austria-Hungary. Paper-feeding machine	618,409	Jan. 31	2985	661, 662	86	645
Gerry, James H., assignor to Self Winding Clock Company, New York, N. Y. Mechanical time-switch for two-rate electric meters	619,476	Feb. 14	1247	285	86	1072
Gerst, Philip. (See Adams, George W., assignor.)						
Gerst, Philip. (See Stevens, William H., assignor.)						
Gerstle, Jacob, Portland, Oreg. Ore grinder and amalgamator	616,915	Jan. 3	91	19	86	19
Gerstner, August, New York, N. Y. Vehicle-wheel	631,294	Aug. 22	2914	660	88	1347
Gertin, David, Corning, assignor of one-half to H. J. Samuels, New York, N. Y. Arc-lamp for electric lighting	620,117	Feb. 28	2430	549	86	1338

Alphabetical list of patentees—Continued.

Name, residence, and invention.	No.	Date.	Monthly volume. Spec.	Monthly volume. Dr'g.	Official Gazette. Vol.	Official Gazette. Page.
Gerts, Lumbard & Company. (See Lumbard, Frank H., assignor.)						
Gerwe, David, St. Louis, Mo. Coffin	621,407	Mar. 21	1604	355	86	1837
Gerwig, John H., Catonsville, Md. Educational device	625,881	May 30	3520	799	87	1464
Gesche, Adolph L. (See Gesche, Ernest B. and A. L.)						
Gesche, Ernest B. and A. L., Bingham Lake, Minn. Car-brake	617,650	Jan. 10	1500	342	86	312
Gess, Charles. (See Hamilton and Gess.)						
Gessler, Maximilian, Milwaukee, Wis. Holder for bicycles	629,850	Aug. 1	177	41	88	755
Gessner, David, administrator. (See Gessner, Ernst.)						
Gessner, David, Worcester, Mass. Cloth-pressing machine	628,242	July 4	524	128	88	104
Gessner, David, Worcester, Mass. Bed-plate for rotary cloth-pressing machines	632,837	Sept. 12	1198	273	88	1961
Gessner, David, Worcester, Mass. Cloth-steamer	633,238	Sept. 19	1966	461	88	2121
Gessner, David, Worcester, Mass. Napping-machine	636,402	Nov. 7	291	65, 66	89	979
Gessner, Ernst, deceased, Aue, Germany; D. Gessner, administrator. Calendering-machine	632,714	Sept. 12	968	224, 225	88	1913
Getchell, Augustus W., assignor of two-thirds to R. E. Briggs, Cleveland, and L. S. Abbott, Springfield, Ohio. Sash-fastener	632,217	Aug. 29	4615	1040	88	1690
Getchell, George C., Cambria, Wyo. Endless conveyer or elevator	627,409	June 20	2238	493	87	2089
Getty, Fred I., Chicago, Ill., assignor to Automatic Electric Clock Company, Kansas City, Mo. Electric clock	637,454	Nov. 21	2368	512, 513	89	1434
Geuder & Paeschke Manufacturing Company. (See Kronquest, August C., assignor.)						
Geudtner, Charles P., Chicago, Ill. Bracket	636,034	Oct. 31	3872	890	89	823
Gfeller, Alfred. (See Gracey, James G., assignor.)						
Gharky, William D., Philadelphia, Pa. Telephone-switch	620,440	Feb. 28	2983	683	86	1444
Gharky, William D., Philadelphia, Pa. Telephone system	626,462	June 6	452	106	87	1701
Gharky, William D., Philadelphia, Pa. Telephone system	626,463	June 6	454	106	87	1702
Gholson, John A., Clarksville, Tenn. Guard for dental-forcep joints	617,247	Jan. 3	728	168	86	143
Gholson, John A., Clarksville, Tenn. Dental-tool guard	635,244	Oct. 17	2333	545	89	494
Giacomini, Luigi, Florence, Italy, assignor to R. Katzenmayer, deceased, New York, N. Y.; G. Katzenmayer, executrix. Non-refillable bottle	619,741	Feb. 21	1744	398	86	1193
Gibb, John F. (See Clay and Gibb.)						
Gibbins, William G., London, England. Washing-machine	638,180	Nov. 28	4112	868, 869	89	1838
Gibbon, Henry, and N. McKay, Paterson, N. J. Game apparatus	636,257	Nov. 7	60	13	89	935
Gibbons, Anthony J. (See Gibbons, Patrick C. and A. J.)						
Gibbons, Clifford H. (See Horr and Gibbons.)						
Gibbons, Patrick C. and A. J., Edina, Mo. Device for opening or closing gates	626,158	May 30	4112	937	87	1573
Gibbs, Alfred W., Altoona, Pa. Rod-packing device	621,063	Mar. 14	995	216	86	1706
Gibbs, Carrie, Southsea, England. Cycling-skirt	630,498	Aug. 8	1486	332, 333	88	1025
Gibbs, Charles E. (See McManus, John M., assignor.)						
Gibbs, Charles E., Malden, assignor to Parker Brothers, Salem, Mass. Game	617,306	Jan. 3	841	196	86	166
Gibbs, Eugene U. (See Harley and Gibbs.)						
Gibbs, Eugene U., Gloucester City, N. J. Car-seat	639,894	Dec. 26	3151	724, 725	89	2538
Gibbs, George. (See Howard and Gibbs.)						
Gibbs, George, Philadelphia, Pa. Electric-motor suspension	620,239	Feb. 28	2638	601	86	1377
Gibbs, Harry T., assignor to himself, S. M. Foye, and F. G. Sweeney, Portsmouth, R. I. Electric signal	635,765	Oct. 31	3352	775	89	721
Gibbs, Horace C., Springfield, Ill. Ruling-machine	621,064	Mar. 14	997	217	86	1706
Gibbs, Jacob S., assignor of one-half to C. G. Perkins, Hartford, Conn. Insulating-receptacle for electrical switches	632,346	Sept. 5	248	59	88	1756
Gibbs, James E., Bridgewater, Va. Automatic gate	620,441	Feb. 28	2985	684	86	1444
Gibbs, John W., Liverpool, England. Starting-switch	638,110	Nov. 28	3975	836	89	1809
Gibbs, Lewis, Canton, Ohio. Embroidery-ring	632,011	Aug. 29	4221	950	88	1614
Gibbs Loom, Harness and Reed Company. (See Gibbs, William H., assignor.)						
Gibbs, Robert R., Liverpool, England. Hot-water-circulating apparatus	621,999	Mar. 28	2733	617	86	2071
Gibbs, William A., assignor of one-half to A. R. Steed, Middletown, Conn. Knob attachment	629,755	July 25	3348	781	88	706
Gibbs, William E., Fanwood, N. J. Acetylene-gas generator	621,065	Mar. 14	999	217	86	1706
Gibbs, William E., Fanwood, N. J., assignor to Pneumatic Carriage Company, New York, N. Y. Clutch for motor-vehicles	634,292	Oct. 3	606	149	89	121
Gibbs, William H., assignor to Gibbs Loom, Harness and Reed Company, Clinton, Mass. Heddle-making machine	626,900	June 13	1295	284, 285, 286	87	1883
Giberson, Mason B., assignor of one-half to B. H. Whiteley, Muncie, Ind. Car-coupling	638,505	Dec. 5	609	126	89	1983
Gibford, Edward B., Adrian, Mich. Cleaner for bicycle-chains	628,087	July 4	236	54	88	48
Gibson, James B. (See Nash, Daniel W., assignor.)						
Gibson, Robert W., New York, N. Y. Car-fender	620,581	Mar. 7	53	11	86	1512
Giddings, Charles M. (See Spery, Charles F., assignor.)						
Gidley, Constance M., Collumpton, England. Fastener for cuffs	634,167	Oct. 3	342	87	89	71
Gieberich, Leo F. C., New York, N. Y. Attachment for spectacle-temples	619,163	Feb. 7	705	151	86	949
Gier, Edward, San Francisco, Cal. Toy	623,210	Apr. 18	1879	430	87	394
Gierth, William, and F. Peters, Newark, N. J. Electric-light hanger	623,363	Apr. 18	2161	497	87	450
Giese, August. (See Nordtmeyer, Hermann, assignor.)						
Giesey, James H., Highland City, Ohio. Window and fixture therefor	616,916	Jan. 3	92	20	86	20
Giessel, Henry, Chicago, Ill. Combined filter and refrigerator	618,171	Jan. 24	2533	560	86	544
Giffen, Robert K., assignor to United States Fertilizer Company, Wheeling, W. Va. Apparatus for making fertilizers	638,919	Dec. 12	1356	310	89	2151
Giffhorn, Ludwig J. W. H., assignor to O. Giffhorn, Spotswood, N. J. Cutting apparatus for mowing-machines	621,562	Mar. 21	1899	424	86	1893
Giffhorn, Otto. (See Giffhorn, Ludwig J. W. H., assignor.)						
Gifford, Cyrus P., Erie, Pa. Bicycle-tire plugger	632,936	Sept. 12	1380	319	88	1993
Gifford, Frank V., Niagara Falls, N. Y. Running-gear for vehicles	618,225	Jan. 24	2621	579	86	560
Gifford, Harry E., Onset, Mass. Moisture-chamber for blotter-baths	628,657	July 11	1359	317	88	283
Gifford, James N., Fairhaven, Mass., assignor to Atlas Tack Company, of Maine. Nail-making machine	637,381	Nov. 21	2246	483	89	1410
Gifford, Jireh C., Cambridge, Mass. Pipe-wrench	627,075	June 13	1593	348	87	1941
Gifford, John H., Fall River, Mass. Trousers-leg guard	623,599	Apr. 25	2588	592	87	554
Gifford, Livingston, administrator. (See Heumann, Karl.)						
Gilbert & Barker Manufacturing Company. (See Barker, John F., assignor.)						
Gilbert & Barker Manufacturing Company. (See Clarke, William C., assignor.)						
Gilbert & Bennett Manufacturing Company. (See Gilbert and Widerstrom, assignors.)						
Gilbert, Edmund D., assignor to S. S. White Dental Manufacturing Company, Philadelphia, Pa. Mercury-holder	628,933	July 18	1856	430	88	398
Gilbert, Edward A., assignor of one-half to T. Courser, Myers, Fla. Ice-cream freezer	621,563	Mar. 21	1900	425	86	1893

Alphabetical list of patentees—Continued.

Name, residence, and invention.	No.	Date.	Monthly volume.		Official Gazette.	
			Spec.	Dr'g.	Vol.	Page.
Gilbert, Edwin, and C. W. Widerstrom, assignors to Gilbert & Bennett Manufacturing Company, Georgetown, Conn. Shuttle	635,720	Oct. 24	3244	748	89	688
Gilbert, Frank H., Ridgefield, Wash. Sack-holder	634,334	Oct. 3	705	168	89	142
Gilbert, Frederick M. (See Ostenberg, John A., assignor.)						
Gilbert, Henry K., Niagara Falls, N. Y., assignor of one-half to C. L. Randall, Girard, Pa. Water-gage gasket	630,047	Aug. 1	604	132	88	843
Gilbert, Henry W. (See Baker, Eugene, assignor.)						
Gilbert, Joel M., Clinton, Conn. Attachment for bicycles	617,685	Jan. 10	1563	354	86	323
Gilbert, Joel M., Clinton, Conn. Shipping crate or case	626,419	June 6	377	88	87	1687
Gilbert, John B., Sterling, Ill. Milk-heater	618,226	Jan. 24	2623	580	86	560
Gilbert, John C., Boston, Mass. Match-safe	633,830	Sept. 26	3049	708	88	2347
Gilbert, Philip H., Hazleton, Pa. Trolley-pole	619,164	Feb. 7	706	151	86	949
Gilbert-Russell, Thomas, London, England. Screen for gun-sights	621,066	Mar. 14	1001	217, 218, 219	86	1707
Gilbert, William M. (See White and Gilbert.)						
Gilbert, William M., assignor to G. H. Clowes, Waterbury, Conn. Acetylene-gas generator	625,949	May 30	3632	826	87	1485
Gilbreth, Frank B., Boston, assignor of one-half to L. C. Wason, Brookline, Mass. Mixer for concrete, cement, or other substances	620,028	Feb. 21	2261	513	86	1292
Gilchrist, Archie A. (See Pifer, John F., assignor.)						
Gilchrist, Joseph, Paterson, N. J. Bracket for roller shades or curtains	633,239	Sept. 19	1968	461	88	2122
Gilchrist, Joseph C. (See Martin, Herman, assignor.)						
Gildard, Christopher G. (See Coldwell and Gildard.)						
Gilday, William A., Philadelphia, Pa. Bicycle-tire	621,243	Mar. 14	1317	292	86	1770
Gildemeyer, Charles A., Haddonfield, assignor to Eclipse Package Handle Company, Camden, N. J. Holder for phonograph or graphophone records	618,031	Jan. 17	2225	496	86	472
Giles, Charles H., Wolverine, Mich. Crop-thinner	637,382	Nov. 21	2248	483	89	1410
Giles, Charles T., London, England. Filter	628,088	July 4	240	54	88	48
Giles, Frederick T., Bristol, England. Apparatus for manufacturing threaded articles	634,209	Oct. 3	424	108	89	88
Giles, Frederick T., Bristol, England. Molding apparatus for making cores for forming nicks, &c., in heads of cast screws, &c	640,126	Dec. 26	3572	822	89	2626
Giles, Henry. (See Knudson and Giles.)						
Giles, Hubert, *et al.* (See Bradley, James R., assignor.)						
Giljohann, Rudolph E., Milwaukee, Wis. Roller-skate	622,218	Apr. 4	39	9	87	10
Gilkey, James S., Maple City, Kans., and W. T. Gilkey, Sidell, Ill. Wagon-box clamp	632,997	Sept. 12	1477	344	88	2013
Gilkey, William T. (See Gilkey, James S. and W. T.)						
Gill, Arthur B. (See Preston and Gill.)						
Gill, Benjamin F. (See Bergen and Gill.)						
Gill, Crandon D. (See Schroeder and Carr-Boyd, assignors.)						
Gill, James B., San Francisco, Cal. Coin-controlled call-recording device for telephone systems	635,378	Oct. 24	2586	600	89	560
Gill, Joseph H., assignor of one-half to J. M. B. Reis, New Castle, Pa. Doubler for plates or sheets	634,293	Oct. 3	607	149	89	122
Gill, Martin G. (See Brewington, Henry S., assignor.)						
Gill, Mary P., Louisville, Ky. Rotary tooth-brush	622,948	Apr. 11	1375	316	87	281
Gill, Richard M. (See Brewster and Gill.)						
Gillen, James. (See Sinclair, Millard F., assignor.)						
Gillespie, Alfred J., Atlantic, Iowa, assignor to Bostedo Package and Cash Carrier Company, Chicago, Ill. Pneumatic-despatch apparatus	617,417	Jan. 10	1079	246, 247	86	229
Gillespie, Alfred J., assignor to Standard Voting Machine Company, Rochester, N. Y. Voting-machine	628,792	July 11	1590	367, 368, 369	88	331
Gillespie, Alfred J., assignor to Standard Voting Machine Company, Rochester, N. Y. Voting-machine	628,905	July 11	1798	419, 420	88	370
Gillespie, James. (See Breth, Robert L., assignor.)						
Gillespie, Robert T., Uniontown, Pa. Thill-support	623,004	Apr. 11	1479	342	87	302
Gillespie, Walter S. (See Sauers, William H., assignor.)						
Gillet, Joseph, assignor to Milwaukee Manufacturing Company, Milwaukee, Wis. Means for securing crank-arms to shafts	635,766	Oct. 31	3353	775	89	721
Gillett, Ernest H., and J. Fogg, Chorley, assignors of one-third to F. W. Thomson, Halifax, England. Carding-engine	638,111	Nov. 28	3977	837	89	1810
Gillette, Arthur C., Jersey City, N. J. Mold and weight gage	628,405	July 4	850	199	88	163
Gillette, F. A., *et al.* (See Smith, Walter L., assignor.)						
Gillette, Fred C., and A. J. Flint, Boston, Mass. Pianoforte-action	633,189	Sept. 19	1861	438	88	2100
Gillette, George D., Oswego, assignor to D. H. Burrell & Co., Little Falls, N. Y. Rotary cutter	634,210	Oct. 3	426	109	89	89
Gillette, George D., Oswego, assignor to D. H. Burrell & Co., Little Falls, N. Y. Rotary cutter	634,211	Oct. 3	428	109, 110	89	89
Gillette-Herzog Manufacturing Company. (See Turner, Claude A. P., assignor.)						
Gillette, Hiram B., Roseburg, Oreg. Supplemental barrel for guns	631,399	Aug. 22	3106	704	88	1385
Gillette, Randolph, Little Falls, Minn. Rotary steam-valve	617,331	Jan. 10	902	209	86	195
Gilliam Manufacturing Company. (See Sell, William E., assignor.)						
Gillie, John W., North Shields, England. Compass-card	626,686	June 13	853	194	87	1799
Gillies, Beverly J., South Framingham, Mass. Chair for holding railway-rails	627,058	June 13	1568	343	87	1936
Gillies, John, New York, N. Y. Sawing-machine	637,961	Nov. 28	3677	772	89	1752
Gilliland, Ezra T., assignor to C. P. Buchanan and R. Robertson, New York, N. Y. Machine for making cigarettes	639,677	Dec. 19	2748	631, 632, 633, 634, 635, 636	89	2442
Gilliland, James F., Adrian, Mich. Clamp or connector	625,668	May 23	3095	704	87	1364
Gillmen, William A., McKeesport, assignor of one-half to A. D. Wood, Allegheny, Pa. Shear mechanism	630,681	Aug. 8	1817	409	88	1089
Gilman, Albert H., Saco, Me. Lubricating device	630,048	Aug. 1	606	132	88	843
Gilman, Arthur S., Cleveland, Ohio. Distributer or assorter for linotyping-machines or type-setting machines	633,190	Sept. 19	1862	438, 439	88	2100
Gilman, Benjamin F., San Francisco, Cal. Apparatus for working frozen auriferous earth	618,266	Jan. 24	2695	597	86	574
Gilman, Benjamin I., Newton, Mass. Memorandum-case	626,901	June 13	1301	286	87	1884
Gilman, Benjamin I., Newton, Mass. Match-box holder	637,455	Nov. 21	2371	513	89	1434
Gilman, Charles S., assignor to Gilman-Yarnell Manufacturing Company, Minneapolis, Minn. Card-index	622,648	Apr. 4	845	194	87	160
Gilman, George H., W. B. Norton, and J. H. Brown, Tacoma, Wash. Brake-adjusting mechanism	621,653	Mar. 21	2051	458	86	1924

Alphabetical list of patentees—Continued.

Name, residence, and invention.	No.	Date.	Monthly volume.		Official Gazette.	
			Spec.	Dr'g.	Vol.	Page.
Gilman, George S., Lowell, Mass. Reversing mechanism	623,898	Apr. 25	3145	725	87	660
Gilman, Willard H., Boston, assignor to F. L. Milliken, trustee, Milton, Mass. Advertising apparatus	636,721	Nov. 7	901	200	89	1107
Gilman-Yarnell Manufacturing Company. (See Gilman, Charles S., assignor.)						
Gilmore, E. B., *et al.* (See Cutler, Burnam B., assignor.)						
Gilmore, Frank E., Warren county, Ill. Combined churn and butter-worker	638,234	Dec. 5	51	12, 13	89	1877
Gilmore, George, assignor of one-half to J. Hawthorne, Simcoe, Canada. Reversing-valve for engines	632,459	Sept. 5	457	102	88	1797
Gilmore, J. E., *et al.* (See Cutler, Burnam B., assignor.)						
Gilmore, Minnie, Garden Valley, Cal. Ventilated lunch-bucket	634,132	Oct. 3	282	69	89	59
Gilmour, John, Troy Grove, Ill. Marker attachment for planters	633,446	Sept. 19	2356	555	88	2196
Gilon, Ella, New York, N. Y. Clothes-line trolley	617,155	Jan. 3	571	134	86	112
Gilsdorf, Michael J., Toledo, Ohio. Coin-controlled coupon-delivery device	627,496	June 27	2388	525	87	2135
Gilson, Franklin H., Wellesley, Mass. Album	634,294	Oct. 3	611	150	89	122
Gilson, John, assignor to Gilson Manufacturing Company, Port Washington, Wis. Grinding-machine	621,810	Mar. 28	2366	529	86	2000
Gilson, John, assignor to Gilson Manufacturing Company, Port Washington, Wis. Grinding-machine	628,623	July 11	1270	295	88	266
Gilson Manufacturing Company. (See Gilson, John, assignor.)						
Gilton, William W. (See Lippincott and Gilton.)						
Giltz, Goodlow P. (See Anderson, Frank C., assignor.)						
Gindele, William J., Worcester, Mass. Machine for preparing finings	635,925	Oct. 31	3668	846	89	782
Ginn, William E., Perry, Iowa. Artificial limb	622,140	Mar. 28	2983	673, 674	86	2121
Gipe, Emanuel C., Freeport, Ill., assignor of three-fourths to G. W. Tassell, Waukesha, Wis., F. J. Griffen, Chicago, and H. L. Glos, Elmhurst, Ill. Cash and package carrier	623,899	Apr. 25	3148	725, 726	87	661
Gipner, George F., New York, assignor, by mesne assignments, of one-half to Yawman & Erbe Manufacturing Company, Rochester, N. Y. Labeling-machine	630,342	Aug. 8	1155	253, 254, 255	88	966
Gipple, Rebecca A., assignor of one-tenth to I. C. Sinnott, Creston, Iowa. Beating apparatus	617,093	Jan. 3	446	108	86	87
Girard Button Manufacturing Company. (See Beck, Rudolph H., assignor.)						
Girard, Jean B., St. Aimé, assignor of one-half to P. H. Gelinas, St. Hugues, Canada. Wind-wheel	634,168	Oct. 3	343	87	89	71
Girardeau, St. Julian, V. D. Thompson, and R. L. Beal, Galveston, Tex. Sewing-machine attachment	624,644	May 9	1276	285	87	969
Girod, Edgar, assignor of one-third to G. T. Jones, Rayville, La. Plow	627,996	July 4	74	14	88	16
Girod, Ernest, London, England, assignor to Mergenthaler Linotype Company, New York, N. Y. Linotype or analogous machine	625,972	May 30	3682	837	87	1494
Girod, Ernest, Milan, Italy, assignor to Mergenthaler Linotype Company, New York, N. Y. Mechanism for moving molds of linotype-machines	638,868	Dec. 12	1268	288, 289	89	2132
Girtanner, Frederick, New York, N. Y., assignor to Smokeless Fuel Saving Stove Company. Stove	628,436	July 4	905	212	88	174
Girtanner, Frederick, assignor to W. D. Walbridge and E. J. Berwind, trustees, New York, N. Y. Downdraft boiler-furnace	629,350	July 25	2604	603, 604, 605	88	560
Girvan, Charles S. (See Hahn, Herman, assignor.)						
Gish, Shelby J. (See Pickersgill, John, assignor.)						
Githens, Samuel, Randall, Kans. Device for use in poultry culture	627,918	June 27	3169	694	87	2292
Gittens, George W., Paterson, N. J. Lamb's-wool shoe-sole	619,742	Feb. 21	1745	399	86	1193
Given, Alfred, Ellensburg, Wash. Locomotive	633,831	Sept. 26	3050	708, 709	88	2347
Given, John L. (See Paine and Given.)						
Given, Lena G., Memphis, Tenn., assignor of one-half to L. I. Cock, Jackson, Miss. Switch-card receiver	626,534	June 6	578	134	87	1726
Gjers, Lawrence F., and J. H. Harrison, Middlesbrough, England. Apparatus for regulating temperature of heated air	630,682	Aug. 8	1818	409, 410	88	1089
Glahn, Solomon, Hager's Grove, Mo. Latch for sliding doors, &c	629,959	Aug. 1	436	93, 94	88	809
Glaholm, John W., Nanaimo, Canada. Hull for marine vessels	634,814	Oct. 10	1540	362	89	322
Glamorgan Pipe and Foundry Company. (See Crist, William E, assignor.)						
Glardon-Jaquet, David, Vallorbes, and L. Berger, Lausanne, Switzerland. Turner's hand-chisel	622,461	Apr. 4	480	112	87	89
Glascock Bros. Manufacturing Company. (See Wiseman, Darwin E., assignor.)						
Glascock, John T., Hopkinsville, Ky. Ruler	632,258	Sept. 5	90	20	88	1724
Glaser, Friedrich J., Chicago, Ill. Fire-escape	635,539	Oct. 24	2925	668	89	626
Glasgow, William, Chicago, Ill. Pneumatic-tire cleaner	617,288	Jan. 3	811	189	86	160
Glasgow, William, Chicago, Ill. System for overhead electric wires	622,618	Apr. 4	775	180	87	147
Glasgow, William A., Scandia, Kans. Needle attachment for self-binders	624,325	May 2	703	156	87	835
Glass, Kallmann, New York, N. Y. Cabinet	621,067	Mar. 14	1003	219	86	1707
Glass, Perley R. (See Whittemore and Glass.)						
Glass, Perley R., Quincy, Mass. Eyeleting-machine	636,035	Oct. 31	3873	890, 891	89	823
Glass, Perley R., Boston, assignor, by mesne assignments, to C. Whittemore, Newton, Mass. Eyeleting-machine	628,309	July 4	681	159, 160	88	131
Glass, Perley R., Quincy, assignor to M. N. Bray, Boston, Mass. Machine for setting lacing-studs	631,038	Aug. 15	2452	556	88	1238
Glassbrenner, Peter F., East Newbern, Ill. Clod-crusher	632,259	Sept. 5	92	20	88	1725
Glasser, Ludwig, Olean, N. Y. Mute	632,407	Sept. 5	356	81	88	1776
Glasson, Alfred, assignor of two-thirds to C. E. F. M. Mainwaring, London, England. Apparatus for ice-making, &c	634,335	Oct. 3	706	169	89	142
Glauber, Isaac N., Cleveland, Ohio. Self-closing cock or faucet	622,342	Apr. 4	251	58	87	48
Glauber, Isaac N. and J. H., Cleveland, Ohio. Stop and waste cock	618,503	Jan. 31	3148	695	86	675
Glauber, Joseph H. (See Glauber, Isaac N. and J. H.)						
Glaze, Virgil L., Walnut Grove, W. Va. Bicycle-brake	635,926	Oct. 31	3669	847	89	783
Glazier, Frank P., Chelsea, Mich. Vapor-burner	617,568	Jan. 10	1353	305	86	282
Glazier, Frank P., Chelsea, Mich. Oil-stove	620,910	Mar. 14	695	153	86	1650
Glazier, George W., assignor of one-half to C. C. Briggs, Salem, Mass. Machine for softening hides or skins	620,545	Feb. 28	3173	727	86	1481
Glazier, John L., Savannah, Mo. Motor-vehicle	617,332	Jan. 10	905	210, 211	86	195
Gleason, Arthur A. (See Fennell, Harry, assignor.)						
Gleason, Elliott P. (See MacIntire, George R., assignor.)						
Gleason, Elliott P., New York, N. Y. Apparatus for removing blow-overs	617,333	Jan. 10	915	211	86	198
Gleason, Elliott P., New York, N. Y. Device for removing blow-overs	617,334	Jan. 10	917	211	86	198
Gleason, Frederick L., *et al.* (See Thurber, Charles F., assignor.)						
Gleason, Henry J., Arlington, Mass. Combined mop head and wringer	621,654	Mar. 21	2053	458	86	1924

Alphabetical list of patentees—Continued.

Name, residence, and invention.	No.	Date.	Monthly volume.		Official Gazette.	
			Spec.	Dr'g.	Vol.	Page.
Gleason, Walter, Manistique, Mich. Wrench	635,767	Oct. 31	3355	776	89	722
Gledhill, George H., Halifax, England, assignor, by mesne assignments, to Victor Cash Register Company, Chicago, Ill. Cash register and indicator	624,645	May 9	1276	285	87	969
Gledhill, George H., Halifax, England, assignor, by mesne assignments, to Victor Cash Register Company, Chicago, Ill. Cash-register	634,726	Oct. 10	1403	330, 331	89	296
Gledhill, John A., and J. C. Whitney; said Whitney assignor to G. C. Challenger, Manchester, England. Printing-machine	618,793	Jan. 31	3651	816, 817, 818	86	774
Gledhill, Thomas H., Lewiston, Me. Velocipede	638,235	Dec. 5	53	13	89	1877
Gleeson, William, Unga, Alaska Ter. Rock-drilling machine	631,712	Aug. 22	3681	825	88	1499
Gleeson, William, San Francisco, Cal. Rock-drilling machinery	633,692	Sept. 26	2825	656	88	2301
Gleises, Charles, Nantes, France. Pneumatic tire	636,793	Nov. 14	1084	232	89	1167
Glen, Harry W., assignor of one-half to W. G. Whipple, St. Paul, Minn. Window-cleaner	629,851	Aug. 1	178	41	88	755
Glenn, Allen, Scranton, Iowa. Stock-waterer	638,842	Dec. 12	1220	274, 275	89	2124
Glenn, Coulter E. (See Glenn, Harvey S. and C. E.)						
Glenn, Harvey S. and C. E., New Kensington, Pa. Portable drilling-machine	632,921	Sept. 12	1358	313, 314	88	1989
Glenn, James L., Jr., *et al.* (See Crum, Edward A., assignor.)						
Glenn, John. (See Pettijohn and Glenn.)						
Glessner, Arthur W., Chicago, Ill. Soft-coal furnace	624,009	May 2	102	21	87	723
Glew, John H., London, England. Means for securing tires to vehicle-wheels	629,677	July 25	3204	746, 747	88	679
Glidden, Francis H., Cleveland, Ohio. Steering-propeller	622,343	Apr. 4	252	58	87	48
Glidden, George F., Watertown, Mass. Device for inserting plugs into pneumatic tires	636,517	Nov. 7	500	111	89	1022
Glidden, Joseph F. (See Condon, Henry F., assignor.)						
Gliem, Frederick H., *et al.* (See Lucas, William H., assignor.)						
Globe Acetylene Gas Company. (See Powers, Jay W., assignor.)						
Globe Cashier, (British and Foreign.) (See Scott, Frank S. D., assignor.)						
Globe Company. (See Blaine, John E., Jr., assignor.)						
Globe Company. (See Carnahan, Charles M., assignor.)						
Globe Company. (See Dom, Alexander, assignor.)						
Globe Company. (See Peck, Charles M. and W. J., assignors.)						
Globe Company. (See Vilas, Royal L., assignor.)						
Globe Developement Company. (See Scott, Barton W., assignor.)						
Globe Electric Company. (See Heidell, Gustavos, assignor.)						
Globe Trading Company. (See Harris, John N., assignor.)						
Gloeckler, Guillaume. (See Monier and Gloeckler.)						
Gloekler, Charles A., Pittsburg, Pa. Smoke-house	629,351	July 25	2607	605	88	561
Glos, Henry L., *et al.* (See Gipe, Emanuel C., assignor.)						
Glotfelty, John W. C., and C. P. Snow, Lanark, Ill. Washing-machine	636,403	Nov. 7	294	66	89	980
Glouster Supply Company. (See King, Charles T., assignor.)						
Glover, Charles, New Britain, Conn., assignor to P. & F. Corbin, of Connecticut. Making hinges	625,443	May 23	2715	617	87	1288
Glover, Charles, New Britain, Conn., assignor to P. & F. Corbin, of Connecticut. Hinge	631,501	Aug. 22	3298	750	88	1423
Glover, Charles, assignor to P. & F. Corbin, New Britain, Conn. Hinge	626,204	May 30	4199	954	87	1590
Glover, Charles, assignor to P. & F. Corbin, New Britain, Conn. Hinge	636,330	Nov. 7	172	38	89	955
Glover, Charles, assignor to P. & F. Corbin, New Britain, Conn. Hinge	636,331	Nov. 7	173	38	89	956
Glover, Charles, assignor to P. & F. Corbin, New Britain, Conn. Hinge	636,332	Nov. 7	174	38	89	956
Glover, Eli S., San Francisco, Cal. Binder for magazines, &c	627,076	June 13	1593	349	87	1941
Glover, F. D. (See Kitchen, George C., assignor.)						
Glover, James, North Melbourne, Victoria. Blade for screw-propellers	634,885	Oct. 17	1676	395	89	366
Glover, W. E. (See Bogard, William C., assignor.)						
Glover, William J., Noble, Tex. Chimney	625,756	May 30	3265	740	87	1415
Glover, William S., Ashland, Wis. Water-closet	627,919	June 27	3170	694	87	2293
Glud, Poul, and C. O. Nielsen, Copenhagen, Denmark. Self-generating vapor-burner	626,375	June 6	312	72	87	1674
Gobba, Anselmo. (See Camiz and Bettoni, assignors.)						
Gobbe, Emile. (See Masion and Dethier, assignors.)						
Gobbe, Emile, Jumet, Belgium. Continuous kiln for baking pottery or burning cement	622,219	Apr. 4	40	9,10	87	11
Gobbe, Emile, Jumet, Belgium. Gas apparatus	630,683	Aug. 8	1820	410	88	1089
Gobeille, Napoléon L., St. Hyacinthe, Canada. Drain-ditching plow	635,315	Oct. 24	2466	573	89	536
Goble, Isaac, Chino, Cal. Beet-puller	630,535	Aug. 8	1561	348	88	1040
Gochnaur, Emanuel D., York, Pa. Wood-grainer	619,298	Feb. 14	952	216	86	1015
Godard, Louis L. J., Paris, France. Stopping of flasks, bottles, or other receptacles for liquids or pulverulent matter	621,454	Mar. 21	1697	375	86	1855
Godbey, Theadore R., Barnesville, Kans. Check-row corn-planter	627,497	June 27	2389	525	87	2135
Goddard, Carey E., Malden, assignor to Boston Rubber Shoe Company, Malden and Boston, Mass. Sole-cutting machine	616,917	Jan. 3	94	20	86	20
Goddard, Harry C., Decorah, Iowa, assignor to Snow Wind-Mill Company, Geneva, Ill. Anchoring means for power-winches	624,010	May 2	103	22	87	723
Godden, John H. (See Grover, George E., assignor.)						
Goddu, George, Winchester, Mass., assignor to Goddu Sons' Metal Fastening Company, Portland, Me. Nail-making machine	616,918	Jan. 3	96	21,22	86	21
Goddu Sons' Metal Fastening Company. (See Goddu, George, assignor.)						
Godfrey, Alfred, London, England. Paper-box machine	622,678	Apr. 11	905	207, 208, 209	87	191
Godfrey Calciner. (See Godfrey and Hayes, assignors.)						
Godfrey, Clark R. (See Roles, William E., assignor.)						
Godfrey, Henry W., London, England. Masticator	617,735	Jan. 17	1661	374	86	363
Godfrey, Hosea M., assignor of one-half to J. W. McConn and W. F. Hunt, Lovell, Wyo. Locking device	632,562	Sept. 5	653	152	88	1836
Godfrey, Jonathan, assignor of one-half to Compressed Paper Box Company, Bridgeport, Conn. Paper-box machine	639,809	Dec. 26	3004	691, 692, 693	89	2511
Godfrey, Joseph, and H. J. Hayes, Swansea, assignors, by mesne assignments, to Godfrey Calciner, Limited, London, England. Calcining-furnace	637,864	Nov. 28	3510	733	89	1719
Godfrey, William L. (See Emerton and Godfrey.)						
Goding, Edwin L., Portland, Me. Last	623,711	Apr. 25	2773	634	87	588
Godley, George F., Philadelphia, Pa. Valve	626,420	June 6	380	89	87	1688
Godman, William E. (See Maddrix and Godman.)						
Goebel, Theodore P. (See Fischer, Borowski, and Goebel.)						
Goebler, Henry A., Connersville, assignor of one-half to W. F. Thomas, Richmond, Ind. Advertising device	620,868	Mar. 7	619	135	86	1624
Goehring, Charles L., Chicago, Ill. Brush	639,376	Dec. 19	2209	510	89	2335
Goehring, Robert. (See Post and Goehring.)						
Goehrs, William H., Chicago, Ill., assignor to E. T. Earl, Oakland, Cal. Seal-lock	618,936	Feb. 7	232	53	86	849

Alphabetical list of patentees—Continued.

Name, residence, and invention.	No.	Date.	Monthly volume. Spec.	Monthly volume. Dr'g.	Official Gazette. Vol.	Official Gazette. Page.
Goeke, David, and A. Knaack, Davenport, Iowa. Wheel	629,442	July 25	2769	643	88	596
Goeller, Joseph, Fairbury, Nebr. Hame attachment	619,825	Feb. 21	1899	433	86	1223
Goeltz, William F. (See White and Goeltz.)						
Goepel, Paul, trustee. (See Hussey, Charles A., assignor.)						
Goeppinger, Rudolph J., St. Francis, Ark. Surveyor's compass	633,832	Sept. 26	3051	709	88	2348
Goergen, Charles, St. Louis, Mo. Funnel	625,551	May 23	2901	659	87	1326
Goertz & Co., Aug. (See Eigen, Benno vom, assignor.)						
Goerz, Carl P., and E. von Höegh, Friedenau, Germany. Photographic objective	635,472	Oct. 24	2815	642	89	605
Goerz, Carl P., and E. von Höegh, Friedenau, Germany. Three-lens system for photographic purposes	635,473	Oct. 24	2817	643	89	605
Goettel, John, Boston, Mass. Truck for electric cars	636,980	Nov. 14	1445	311	89	1239
Goetz, Albert, Hoboken, N. J. Musical instrument	618,539	Jan. 31	3211	712	86	687
Goetz, Charles, Mount Savage, and W. A. Huston, Frostburg, Md. Car-brake	624,787	May 9	1525	347	87	1020
Goetze, Max, assignor of seven-eighths to W. C. Buderus, Sturgis, S. D. Lamp-extinguisher	627,667	June 27	2723	597	87	2201
Goetzinger, Charles P., Duluth, Minn. Rail-joint	629,009	July 18	1984	462	88	423
Goff, Daniel, Millville, N. J. Automatic stoker	618,862	Feb. 7	79	17	86	820
Goff, Daniel, Millville, N. J. Smoke and gas returning apparatus for furnaces	618,863	Feb. 7	83	17, 18	86	821
Goff, Frank, and T. H. Joiner, Camden, N. J., assignors to Instant Lighter and Novelty Manufacturing Company, of New Jersey. Magazine-lighter	639,169	Dec. 12	1782	413	89	2234
Goff, Richard C., Charlottetown, Canada. Ice-creeper	620,582	Mar. 7	54	11	86	1513
Goggan, John, *et al.* (See Lewis, George H., assignor.)						
Goggan, Michael, *et al.* (See De Witt, Joseph R., assignor.)						
Gogley, Jacob, Everett, Pa. Metal-punch	629,558	July 25	2990	699	88	638
Gold, Edward E., New York, N. Y. Electric heater	621,604	Mar. 21	1961	438, 439	86	1906
Gold, Edward E., New York, N. Y. Electric heater	631,959	Aug. 29	4122	928	88	1594
Gold, Edward E., New York, N. Y. Steam-trap	632,937	Sept. 12	1382	320	88	1994
Gold, Edward E., New York, N. Y. Electric heater	635,131	Oct. 17	2144	501	89	459
Gold, Edward E., New York, N. Y. Electric heater	635,132	Oct. 17	2147	501	89	459
Gold, Edward E., New York, N. Y. Electric heater	635,133	Oct. 17	2150	502	89	460
Gold, Edward E., New York, N. Y. Electric heater	638,050	Nov. 28	3848	809	89	1786
Gold, Edward E., New York, N. Y. Electric heater	638,236	Dec. 5	55	13, 14	89	1877
Gold, Edward E., New York, N. Y. Electric heater	638,388	Dec. 5	384	81	89	1940
Gold, Edward E., New York, N. Y. Means for controlling electric heaters	639,170	Dec. 12	1784	413, 414	89	2235
Gold, Edward E., New York, N. Y. Electric heater	639,725	Dec. 26	2842	655	89	2478
Gold Extraction Syndicate. (See Zerener, Martin B., assignor.)						
Gold, Nathan, *et al.* (See Müller, John P., assignor.)						
Goldbacher, Joseph N., New York, N. Y., and E. Bournonville, Jersey City, N. J. Acetylene-gas generator	627,498	June 27	2390	525, 526	87	2135
Goldbacher, Joseph N., New York, N. Y., and E. Bournonville, Jersey City, N. J. Acetylene-gas apparatus	627,499	June 27	2395	526	87	2136
Goldberg, Aaron, Paterson, N. J. Shoe	617,701	Jan. 10	1596	360	86	330
Goldberg, Christian T., Neukirchen, Germany. Fancy-roller for carding-engines	635,927	Oct. 31	3670	847	89	783
Goldberg, John S. (See Heinemann and Goldberg.)						
Goldberg, John S., assignor to Titan Fastener Company, Chicago, Ill. Automatic machine for feeding, inserting, and setting lace-fasteners	626,687	June 13	854	194, 195	87	1799
Goldberger, Ignatz, Cleveland, Ohio. Garment	629,678	July 25	3205	747	88	679
Goldberger, Maurice, assignor to Fort Wayne Smelting and Refining Works, Fort Wayne, Ind. Cast-metal pile	637,728	Nov. 21	3239	674	89	1644
Goldborg, John N., Hopkins, Minn. Photograph-holder	632,649	Sept. 5	802	187	88	1866
Golden Gate Fruit Jar Company. (See Gray, Granville H., assignor.)						
Golden, George W., Detroit, Mich. Window-screen	618,084	Jan. 24	2350	525	86	510
Golden, George W., Detroit, Mich. Weather-strip	623,364	Apr. 18	2163	497	87	451
Golden, George W., Detroit, Mich. Window-guard	623,365	Apr. 18	2164	498	87	451
Golden, George W., Detroit, Mich. Weather-guard	632,049	Aug. 29	4296	965	88	1628
Golden, George W., Detroit, Mich. Hinge	632,309	Sept. 5	191	43	88	1744
Golden, George W., Detroit, Mich. Window-guard	636,518	Nov. 7	502	111	89	1023
Golden, George W., Detroit, Mich. Weather-strip	638,506	Dec. 5	611	126	89	1983
Golden, Joseph A., Lafayette, Ind. Window-sash	623,005	Apr. 11	1481	342, 343	87	302
Golden, William N., Moultrie, Ga. Stove or furnace for washboilers	637,107	Nov. 14	1676	364	89	1283
Goldenberg, Jacob, N. Komow, and L. Gutterman, New York, N. Y. Electric alarm-clock	631,631	Aug. 22	3536	796, 797	88	1472
Goldey, Paul R., Philadelphia, Pa., assignor, by mesne assignments, to General Equipment Company, Camden, N. J. Circuit-breaker	617,503	Jan. 10	1215	276	86	256
Goldey, Paul R., Philadelphia, Pa., assignor, by mesne assignments, to General Equipment Company, of New Jersey. Automatic magnetic circuit-breaker	627,997	July 4	75	14	88	16
Goldie, Alexander R., Galt, Canada. Traveling crane or conveyer	626,276	June 6	103	27	87	1634
Goldie, William, Pittsburg, Pa. Tie-plate	625,552	May 23	2902	659	87	1326
Goldie, William, Pittsburg, Pa. Tie-plate	631,039	Aug. 15	2458	557	88	1240
Goldie, William, Wilkinsburg, Pa. Tie-plug	626,060	May 30	3893	884	87	1533
Goldie, William, Wilkinsburg, Pa. Metal hoop	630,603	Aug. 8	1681	378	88	1064
Goldie, William, Wilkinsburg, Pa. Metal hoop	634,615	Oct. 10	1198	283	89	255
Golding, John F., Chicago, Ill. Metallic sheet	631,366	Aug. 22	3044	690	88	1373
Golding, William H., Boston, Mass. Valved can	635,379	Oct. 24	2590	601	89	560
Goldman, Gustav, assignor to Phoenix Coat Pad Company, Baltimore, Md. Shoulder-pad	621,811	Mar. 28	2368	529	86	2000
Goldman, Gustav, assignor to Phoenix Coat Pad Company, Baltimore, Md. Shoulder-pad	622,765	Apr. 11	1049	243	87	219
Goldman, Henry, Chicago, Ill. Calculating-machine	617,094	Jan. 3	447	108, 109	86	87
Goldman, Henry, assignor to International Arithmachine Company, Chicago, Ill. Calculating-machine	624,788	May 9	1527	348	87	1021
Goldman, Orlando R. (See Campbell, Robert, assignor.)						
Goldner, Simon, New York, N. Y. Mantle for incandescent lighting	634,815	Oct. 10	1541	362	89	322
Goldner, Simon, assignor of one-half to J. Strauss & Sons, New York, N. Y. Gage for diamonds and their mountings	628,310	July 4	690	160	88	133
Goldsborough, Byron, New York, N. Y. Hoisting and air-lock apparatus for caissons	623,660	Apr. 25	2686	616	87	571
Goldsborough, Washington L., New York, N. Y. Garment-fastener	622,220	Apr. 4	42	10	87	11
Goldschmid, Jacob E. (See Dellwik, Carl, assignor.)						
Goldschmidt, Enrique. (See Schultz-Hencke Dankmar, C. S., assignor.)						
Goldsmith, Adolph. (See Hollander, Theodore, assignor.)						
Goldsmith, Byron B., New York, N. Y. Magazine-pencil	618,172	Jan. 24	2534	561	86	544

Alphabetical list of patentees—Continued.

Name, residence, and invention.	No.	Date.	Monthly volume. Spec.	Monthly volume. Dr'g.	Official Gazette. Vol.	Official Gazette. Page.
Goldsmith, Byron B., New York, N. Y. Display-card	618,410	Jan. 31	2987	662	86	646
Goldsmith, Byron B., New York, N. Y. Ornamenting surfaces	631,295	Aug. 22	2916	------	88	1347
Goldsmith, Duval P., and B. F. Martyn, Warrenton, Va. Coffee-pot	628,705	July 11	1441	335	88	300
Goldsmith, Harrison C., Peconic, N. Y. Bag-holder	630,684	Aug. 8	1821	411	88	1089
Goldsmith, Joseph, Jr., Providence, R. I. Collar-button	629,159	July 18	2262	524	88	477
Goldsmith, Louis, New York, N. Y. Trunk	636,794	Nov. 14	1085	232	89	1167
Goldsmith, Louis, Jr., *et al.* (See Müller, John P., assignor.)						
Goldsmith, Marcus T., New York, N. Y. Clasp	635,768	Oct. 31	3356	776	89	722
Goldsmith, Paul G., Troy, N. Y. Curtain-hanging apparatus	620,648	Mar. 7	198	41	86	1540
Goldsmith, Richard H. (See Mulder, Martienus, assignor.)						
Goldsmith, Washington L., Meridian, Miss. Making fertilizers	620,443	Feb. 28	2987	------	86	1445
Goldsmith, William H. (See Hamblin and Goldsmith.)						
Goldstein, Harris. (See Neeger, Theodore C., assignor.)						
Goldsworthy, William. (See Evans and Goldsworthy.)						
Goldsworthy, William, assignor of one-third to E. H. Sleight, Moline, Ill. Centrifugal liquid-purifier	637,729	Nov. 21	3241	674	89	1644
Goldthwait, Charles, Boston, Mass. Necktie	617,736	Jan. 17	1662	375	86	363
Goldthwaite, William M., Chicago, Ill. Globe and mounting therefor	630,604	Aug. 8	1682	378	88	1064
Goll, Richard, Frankfort-on-the-Main, Germany. Means for regulating fluid-currents in conduits, pipes, &c	628,459	July 11	950	222	88	202
Goll, Richard, Frankfort-on-the-Main, Germany. Grate	634,886	Oct. 17	1677	395	89	366
Goltermann, Ada V., East Orange, N. J. Tooth-brush	632,524	Sept. 5	577	133	88	1821
Goltra, Edward F., St. Louis, Mo. Car-truck side frame	620,911	Mar. 14	697	153	86	1650
Goltra, Edward F., St. Louis, Mo. Car-truck side frame	630,214	Aug. 1	896	197	88	899
Gomes, Joseph, Jacksonville, Ill. Lawn-mower	624,789	May 9	1530	348	87	1021
Gommeret, Jean F. and L., Troyes, France. Wheel-tire	629,745	July 25	3329	777	88	703
Gommeret, Léon. (See Gommeret, Jean F. and L.)						
Gondriaan, Johan C., *et al.* (See Tienhoven, Baltazar W., assignor.)						
Gonsalves, Antonio I., Rio Janeiro, Brazil. Window-stop	638,329	Dec. 5	267	55	89	1917
Gooch, Frank A., New Haven, Conn. Reducing aluminium	631,253	Aug. 15	2838	641	88	1315
Gooch, Thomas C., Chicago, Ill. Centrifugal machine	618,659	Jan. 31	3429	764	86	730
Good, Francis H., Philadelphia, Pa. Carpet-cleaner	627,500	June 27	2402	527	87	2137
Good, John, New York, N. Y. Flier for spinning machinery	629,071	July 18	2093	488	88	445
Good, Oliver F., Toledo, Ohio. Gas-engine	634,686	Oct. 10	1318	312	89	280
Good, Robert, Poughkeepsie, N. Y., and R. Good, Jr., Valverde, Colo. Machine for making glass vessels	626,464	June 6	456	107	87	1702
Goodale, Alfred M. (See Edmunds, John, assignor.)						
Goodale, Alfred M. (See Ryon, Eppa H., assignor.)						
Goodale, Alfred M., Waltham, Mass. Sound-locating device	631,070	Aug. 15	2515	569	88	1251
Goodale, Benjamin N., Saco, Me. Spindle-guard for textile-treating machines	633,956	Sept. 26	3272	763	88	2391
Goodale, Frank O., Kempner, Tex. Kitchen-cabinet	637,456	Nov. 21	2373	513	89	1434
Goodamote, Emery, assignor of one-fourth to W. E. Berry, Gloversville, N. Y. Apparatus for forcing liquids charged with carbonic-acid gas	631,008	Aug. 15	2388	543 544	88	1226
Goodbaudy, Samuel, Miami, Ind. Ter., assignor of one-eighth to J. E. Tincher, Danville, Ill. Spring-scale	629,290	July 18	2473	577	88	516
Goodchild, John. (See Dissosway, Crowell M., assignor.)						
Goodchild, John, guardian. (See Dissosway, Crowell M., assignor.)						
Goodchild, John, guardian. (See O'Connor, John, assignor.)						
Goodchild, Thomas A., and A. C. T. Bond, London, England. Producing water-marks in or on manufactured paper	625,255	May 16	2375	------	87	1198
Goodchild, Walter, Wyoming, N. J. Reflector for incandescent lamps	634,295	Oct. 3	613	150	89	123
Goode, Frank R., assignor of one-half to W. Wilson and W. Rawley, Decatur, Ill. Coin-controlled apparatus	633,240	Sept. 19	1969	462	88	2122
Goodell Company. (See Rising, Frederick B., assignor.)						
Goodell, Edward G., and W. B. Haskins, Detroit, Mich. Locking attachment for photographic apparatus	636,036	Oct. 31	3878	891	89	824
Goodell, Henry E., and H. D. Lanfair, assignors to Goodell, Son & Co., Greenfield, Mass. Bench-hacksaw	627,183	June 20	1787	392	87	1990
Goodell, Son & Co. (See Goodell and Lanfair, assignors.)						
Goodell, Wesley M., Belchertown, Mass. Switch-operating device	636,132	Oct. 31	4091	936	89	867
Gooder, Albert, Brookville, Pa. Photographic developing apparatus	622,141	Mar. 28	2984	674	86	2121
Goodfellow, John H., assignor of one-half to J. W. Piper, Lowell, Mass. Cooking or heating stove	621,812	Mar. 28	2369	530	86	2001
Goodfellow, John H., assignor of one-half to J. W. Piper, Lowell, Mass. Cooking or heating apparatus	621,813	Mar. 28	2371	530	86	2001
Goodfellow, John H., assignor of one-half to J. W. Piper, Lowell, Mass. Grate for stoves or furnaces	629,719	July 25	3282	765	88	693
Goodfellow, John H., assignor of one-half to J. W. Piper, Lowell, Mass. Fire-grate for cooking apparatus	630,807	Aug. 8	2023	456	88	1132
Goodfellow, John H., Lowell, Mass., assignor to Lamson Consolidated Store Service Company, Newark, N. J. Store-service apparatus	631,367	Aug. 22	3044	690	88	1373
Goodfellow, John H., Lowell, Mass., assignor to Lamson Consolidated Store Service Company, Newark, N. J. Store-service apparatus	640,127	Dec. 26	3573	822	89	2626
Goodfellow, John H., Lowell, Mass., assignor to Lamson Consolidated Store Service Company, Newark, N. J. Store-service apparatus	640,128	Dec. 26	3575	822 823	89	2627
Goodfellow, Joseph, Fort Edward, N. Y. Device for removing splinters from ground wood or sulfite	628,311	July 4	691	160	88	133
Goodin, William I., Cincinnati, Ohio. Necktie-holder	625,160	May 16	2202	499	87	1165
Gooding, Charles S. (See Beauregard, Victor, assignor.)						
Gooding, Charles S. (See Beauregard, Hausmann, and Gooding.)						
Goodman, Abe L., Chicago, Ill. Apparatus for dispensing ice-cream	618,046	Jan. 17	2262	504	86	478
Goodpasture, Milton O., Celina, Tenn. Nut-wrench	626,228	June 6	23	5	87	1619
Goodrich, Charles C. (See McGuire and Harris, assignors.)						
Goodrich, Egbert C., Detroit, Mich. Washing-machine	624,475	May 9	975	216	87	911
Goodrich, George W., Fielding, Iowa. Hay-loader	637,244	Nov. 21	1978	423 424	89	1356
Goodrich, John C., *et al.* (See Bending, William P., assignor.)						
Goodrich, Madison W., Harvey, Ill. Windmill	619,954	Feb. 21	2130	482	86	1268
Goodrich Manufacturing Company. (See Parker, George E. and L., assignors.)						
Goodrich, Ransom E., New Britain, Conn. Electroplating apparatus	635,380	Oct. 24	2592	601	89	560
Goodsir, Alexander. (See Scott and Goodsir.)						
Goodson, Edward D., Boston, Mass. Bicycle theft-guard	636,133	Oct. 31	4093	937	89	867
Goodwin, Adolphus D., Haran, Va. Sash holder and fastener	631,254	Aug. 15	2840	641	88	1316
Goodwin, Charles H., Waterbury, Conn., assignor to Waterbury Button Company, of Connecticut. Button or fastener	627,110	June 20	1663	363	87	1974

Alphabetical list of patentees—Continued.

Name, residence, and invention.	No.	Date.	Monthly volume.		Official Gazette.	
			Spec.	Dr'g.	Vol.	Page.
Goodwin, George F., Guthrie, Wyo. Egg-spoon	631,713	Aug. 22	3683	825	88	1499
Goodwin, Henry C. (See Griffin, Thomas W., assignor.)						
Goodwin, Henry L., New York, N. Y. Air-heating system	635,042	Oct. 17	1946	461	89	420
Goodwin, Hiland, Wauseon, assignor to C. J. H. Klostermyer, Toledo, Ohio. Flue-stopper	622,221	Apr. 4	45	11	87	12
Goodyear, Robert B., assignor of one-half to Bridesburg Machine Company, Philadelphia, Pa. Shedding-motion for looms	633,131	Sept. 19	1754	413, 414	88	2078
Goodyear Shoe Machinery Company. (See Alley, Frederick L., assignor.)						
Goodyear Shoe Machinery Company. (See Coupal and Gordon, assignors.)						
Goodyear Shoe Machinery Company. (See Winkley, Erastus E., assignor.)						
Goodyear Tire and Rubber Company. (See Burrows, Joseph A., assignor.)						
Goodyear's India Rubber Glove Manufacturing Company. (See Eggers, Anton C., assignor.)						
Gookins, Lincoln, Watson, Mo. Grain-door for cars	620,118	Feb. 28	2432	549	86	1339
Goolman, Fred R., assignor of three-fourths to A. P. Roth, F. Engelhardt, and J. N. Goolman, St. Johnsville, N. Y. Clutch	627,613	June 27	2630	578	87	2183
Goolman, John N., *et al.* (See Goolman, Fred R., assignor.)						
Göransson, Anders J., and E. W. Lindgren, Stockholm, Sweden. Tap	620,766	Mar. 7	427	88	86	1585
Gordon, Charles P. (See Hoag, Elwyn D., assignor.)						
Gordon, Edward E., Newark, Ohio. Steam-boiler furnace	619,563	Feb. 14	1394	320	86	1101
Gordon, Ellen, London, England. Veil-fastener	621,068	Mar. 14	1004	220	86	1707
Gordon, Franklin A., Flora, Minn. Lifting apparatus	617,828	Jan. 17	1858	415	86	401
Gordon, Frederick W., Philadelphia, Pa. Valve for compressors	622,344	Apr. 4	253	58	87	48
Gordon, Frederick W., Philadelphia, Pa. Valve	624,790	May 9	1532	349	87	1021
Gordon, Frederick W., Philadelphia, Pa. Valve for compressors	624,922	May 16	1786	402, 403	87	1088
Gordon, Frederick W., Philadelphia, Pa. Steam-engine	628,089	July 4	241	54, 55	88	48
Gordon, Henry A. (See Gordon, Henry M. and H. A.)						
Gordon, Henry M. and H. A., Dorranceton, Pa. Conduit or pipe	630,605	Aug. 8	1683	379	88	1064
Gordon, James L. (See Russell, Percy H., assignor.)						
Gordon, James R., Waynesburg, Pa. Brace-bit grip	638,805	Dec. 12	1164	260	89	2113
Gordon, John, London, England. Glass facing-tile	624,923	May 16	1788	403	87	1088
Gordon, Joseph L., Liverpool, England. Steam-generator	624,476	May 9	976	216, 217	87	911
Gordon, Ralph W., *et al.* (See Davis, Edward, assignor.)						
Gordon, William. (See Coupal and Gordon.)						
Gordon, William H., assignor of one-third to E. R. Kimble, Portland, Oreg. Miter-box	621,524	Mar. 21	1827	406	86	1879
Gordon, William J., Philadelphia, Pa. Machine for seaming metallic can-bodies	631,487	Aug. 22	3265	742, 743, 744	88	1417
Gordon, William J., Philadelphia, Pa. Can	635,769	Oct. 31	3357	776	89	722
Gore, Kossuth, Auburn, Cal. Gate	623,661	Apr. 25	2690	616	87	572
Gore, Thomas H., West Hoboken, N. J. Air-cooling device	637,383	Nov. 21	2250	484	89	1410
Gorham Manufacturing Company. (See Anthony, Mark, assignor.)						
Gorman, Edward F., and P. F. Yost, Philadelphia, Pa. Submerged feathering-propeller	626,688	June 13	865	195, 196	87	1801
Gorman, Edward F., and P. F. Yost, Philadelphia, Pa. Submerged feathering-propeller	630,499	Aug. 8	1487	333	88	1026
Gorman, John J., Braddock, Pa. Cinder-dumping car	631,071	Aug. 15	2517	569, 570	88	1252
Gorman, Thomas J., F. Bertsch, and F. Aamodt, Minneapolis, Minn. Tufting device	617,248	Jan. 3	729	169	86	143
Gorr, Charles H., assignor to F. E. Gorr, San José, Cal. Lawn-mowing machine	625,669	May 23	3096	704	87	1364
Gorr, Frances E. (See Gorr, Charles H., assignor.)						
Gorrell, William R., Carsin's Run, Md. Towel-holder	627,077	June 13	1595	349	87	1941
Gorter, Henry H., assignor to M. E. Gorter, San Francisco, Cal. Nozzle	627,777	June 27	2910	637	87	2239
Gorter, Henry H., assignor to M. E. Gorter, San Francisco, Cal. Movable water-pipe connection	637,507	Nov. 21	2463	534	89	1452
Gorter, Mary E. (See Gorter, Henry H., assignor.)						
Gorton, Robert, Newton, Mass. Garment-supporter	633,583	Sept. 26	2627	614	88	2202
Gosemann, Christopher, assignor of one-half to J. Hage, Medical Lake, Wash. Carpet stretcher and tacker	617,569	Jan. 10	1354	305, 306	86	282
Goshorn, Samuel S., Philipsburg, Pa. Piano-stool	633,833	Sept. 26	3053	710	88	2348
Goss, Edward O. (See Goss, John H. and E. O.)						
Goss, John H., assignor to Scovill Manufacturing Company, Waterbury, Conn. Foot-pump	623,662	Apr. 25	2691	617	87	572
Goss, John H., assignor to Scovill Manufacturing Company, Waterbury, Conn. Bicycle-bell	625,672	May 23	3101	705	87	1364
Goss, John H., assignor to Scovill Manufacturing Company, Waterbury, Conn. Valve for inflation	629,786	Aug. 1	45	12	88	730
Goss, John H., and G. W. Eddy, assignors to Scovill Manufacturing Company, Waterbury, Conn. Rotary bell	625,670	May 23	3097	704, 705	87	1364
Goss, John H., and G. W. Eddy, assignors to Scovill Manufacturing Company, Waterbury, Conn. Bell-hammer	625,671	May 23	3100	705	87	1364
Goss, John H. and E. O., assignors to Scovill Manufacturing Company, Waterbury, Conn. Fastening for tire-valves	632,218	Aug. 29	4616	1040	88	1691
Goss Printing Press Company. (See Firm, Joseph L., assignor.)						
Goss Printing Press Company. (See Goss, Samuel G., assignor.)						
Goss, Samuel G., Chicago, Ill. Bicycle	634,887	Oct. 17	1678	396	89	366
Goss, Samuel G., assignor to Goss Printing Press Company, Chicago, Ill. Delivery apparatus for printing-presses	621,814	Mar. 28	2374	530	86	2001
Goss, Samuel G., assignor to Goss Printing Press Company, Chicago, Ill. Printing-press	637,777	Nov. 28	3329	697	89	1681
Göthe, Emil A. O. (See Carlsson and Göthe.)						
Gottschalk, Godfrey. (See Feix, Otto F., assignor.)						
Gottschalk, John W., assignor to A. F. Moore, Philadelphia, Pa. Flexible electrical conductor	623,006	Apr. 11	1482	343	87	302
Gottschall, Solomon, and H. Kamsler, New York, N. Y. Ribbon-cutting machine	623,900	Apr. 25	3151	726	87	661
Goudreau, Marcel, assignor of one-half to A. Milot, Taunton, Mass. Water-gage	625,724	May 23	3185	723	87	1381
Goughenour, Levi. (See McCabe and Gougenhour.)						
Goughnour, Henry S., Johnstown, Pa., assignor to Lorain Steel Company, of Pennsylvania. Car-brake	639,228	Dec. 19	1917	441	89	2273
Gould, Aaron P., Canton, Ohio. Head-rest	634,083	Oct. 3	172	44	89	38
Gould, Aaron P., Canton, Ohio. Dental chair	634,084	Oct. 3	174	44	89	39
Gould, Albert J., *et al.* (See Schirra, Julius, assignor.)						
Gould, Charles A., New York, N. Y. Electric-lighting apparatus for railway-cars	628,658	July 11	1361	317	88	283
Gould, Charles E. (See Keith, George P., assignor.)						
Gould, Charles M. (See Richards, Willard F., assignor.)						
Gould, Chester W., Marlborough, Mass. Fire-nozzle	627,728	June 27	2829	620	87	2222

Alphabetical list of patentees—Continued.

Name, residence, and invention.	No.	Date.	Monthly volume. Spec.	Monthly volume. Dr'g.	Official Gazette. Vol.	Official Gazette. Page.
Gould Coupler Company. (See Richards, Willard F., assignor.)						
Gould, Emma D., administratrix. (See Gould, Simeon L.)						
Gould, Frank A. (See Watters and Gould.)						
Gould, Herbert I., Providence. R. I. Abdominal supporter	621,069	Mar. 14	1004	220	86	1707
Gould, James B., Wellington, New Zealand. Label	627,920	June 27	3171	694	87	2293
Gould, Joseph C., Farmer City, Ill. Toe-weight	628,706	July 11	1442	335	88	300
Gould, Mortimer D., Sr., Saguache, Colo. Tire-shrinker	632,998	Sept. 12	1478	344	88	2013
Gould, Simeon L., deceased; E. D. Gould, Gardiner, Me., administratrix, assignor to S. K. Weymouth, Hyde Park, and H. E. Remick, Boston, Mass. Speed-reducing mechanism	638,181	Nov. 28	4114	869	89	1838
Gould, Thomas B. (See Keagle, Martin L., assignor.)						
Gould, William F., Des Moines, Iowa. Railway-rail chair	638,330	Dec. 5	268	55	89	1917
Gould, William J., Lawrence, Kans. Combined churn and butter-worker	633,379	Sept. 19	2241	528	88	2174
Goulds Manufacturing Company. (See Cushing, George H., assignor.)						
Gourlay, John, *et al.* (See Whitmarsh, Charles E., assignor.)						
Gove, Frank W., *et al.* (See Stanley, Nelson D., assignor.)						
Gove, George M., *et al.* (See Stanley, Nelson D., assignor.)						
Gove, George N. (See Ladd and Gove.)						
Gow, Edwin R., Washington, D. C. Automatic railway-switch	638,572	Dec. 5	719	153	89	2004
Gow, Frederick W., Medford, Mass. Apparatus for testing meters	625,029	May 16	1971	440	87	1123
Gower, Arthur, Eastbourne, England. Driving-gear for bicycles	617,095	Jan. 3	450	109	86	88
Gower, Charles E. (See Mahon and Gower.)						
Goybet, Louis, La Plaine, Switzerland, assignor to La Société Chimique des Usines du Rhône, Anciennement Gilliard, P. Monnet et Cartier, Lyons, France. Closing device for vessels containing volatile liquids	628,460	July 11	952	222	88	203
Gozzard, Alfred, assignor to R. and R. J. Nicholson, Sheffield, England. Rock-drill and rock-drill bit, &c	628,530	July 11	1098	256	88	231
Grabe, Georg E. L., Berlin, Germany, assignor to Siemens & Halske Electric Company of America, Chicago, Ill. Electromagnetic instrument	637,778	Nov. 28	3330	697	89	1682
Grabendike, Leslie E., Richland Center, Wis. Shoe-lace holder	629,852	Aug. 1	180	42	88	756
Graber, Herman S., St. Louis, Mo. Apparatus for operating electric brakes	618,864	Feb. 7	89	18	86	822
Grace, Henry S., San Francisco, assignor of three-fourths to S. N. Rucker, San José, Cal. Hat-fastener	627,921	June 27	3172	695	87	2293
Grace, Joseph P., assignor to M. E. Grace, trustee, Montreal, Canada. Step-ladder	628,624	July 11	1271	295	88	266
Grace, Mary E., trustee. (See Grace, Joseph P., assignor.)						
Grace, Thomas, Darlington, New South Wales. Driving mechanism for velocipedes	636,658	Nov. 7	777	170	89	1079
Grace, Thomas S., Blenheim, New Zealand. Fastener for straps, &c	626,689	June 13	867	196	87	1802
Grace, Wilfrid M., Chicago, Ill., Wardrobe	630,685	Aug. 8	1822	411	88	1090
Gracey, James G., assignor of one-half to A. Gfeller, St. Louis, Mo. Automatic stop for elevators	632,347	Sept. 5	249	59	88	1756
Gradlmiller, Eduard, Leoben, Austria-Hungary. Cycle-hanger	626,535	June 6	579	134	87	1726
Graef, Ernest W., Baltimore, Md. Gas-engine	622,891	Apr. 11	1282	296	87	262
Graef, Ernest W., Baltimore, Md. Incandescent tube-igniter for gas-engines	622,892	Apr. 11	1285	296	87	262
Graef, Ernest W., Baltimore, Md. Electric igniter for gas-engines	622,893	Apr. 11	1286	297	87	262
Graeme, John K., Washington, D. C. Photographic developing apparatus	630,500	Aug. 8	1489	333	88	1026
Graetz, Adolf, Berlin, Germany, assignor to Era Incandescent Oil Lamp Company, Limited, London, England. Incandescent lamp	619,165	Feb. 7	707	152	86	949
Graf, Franz J. F., Passaic, N. J. Cordage-machine	633,957	Sept. 26	3274	763	88	2391
Graf, Johann A., Manchester, N. H. Warp stop-motion for looms	622,462	Apr. 4	481	112	87	89
Graf, John J., and C. Keck, assignors to W. E. Bletsch, Cincinnati, Ohio. Acetylene-gas generator	624,011	May 2	105	22	87	723
Graf, William F., Cincinnati, Ohio. Coffee-pot	624,924	May 16	1789	403	87	1088
Graffam, Alonzo. (See Leonard, Graffam, and Wolcott.)						
Grafton, Alexander, Bedford, England. Crane	623,779	Apr. 25	2918	667	87	617
Gragert, Elmer W., White Rock, S. D. Crank	619,166	Feb. 7	709	152	86	950
Graham, Aaron, Christiansburg, Va. Screen	635,928	Oct. 31	3671	847	89	783
Graham, Aaron, Christiansburg, Va. Window-screen	637,931	Nov. 28	3625	760	89	1743
Graham, David F., Springfield, Mass. Swing	624,784	May 9	1520	346, 347	87	1019
Graham, George L. (See Dempster, Robert, assignor.)						
Graham, Hugh W., Louisville, Ky. Siphon	627,059	June 13	1569	343	87	1936
Graham, Isaac N., Deerfield, Va. Car-door	621,070	Mar. 14	1006	221	86	1708
Graham, James A., J. A. McGee, Lorain, and F. H. Stark, Elyria, Ohio. Car-coupling	620,300	Feb. 28	2750	629	86	1401
Graham, John, Fort Worth, Tex. Frogless switch	618,411	Jan. 31	2989	662	86	646
Graham, John, Boston, Mass. Torch	631,425	Aug. 22	3159	717	88	1396
Graham, John S., *et al.* (See Stephenson, Robert S., assignor.)						
Graham, Joseph, New York, N. Y. Child's barrier	625,926	May 30	3600	818	87	1479
Graham, Joseph H., Allegheny, Pa. Bicycle	638,112	Nov. 28	3978	837	89	1810
Graham, Moses J., Brazil, Ind. Hoisting-jack machine	629,352	July 25	2608	606	88	561
Graham, Robert, and E. R. M. Pierce, Sacramento, Cal., assignors to Armour & Co., Chicago, Ill. Ventilator for refrigerator-cars	620,119	Feb. 28	2434	549, 550	86	1339
Graham, Robert, and E. R. M. Pierce, Sacramento, Cal., assignors to Armour & Co., Chicago, Ill. Adjustable floor for refrigerator ice-tanks	626,061	May 30	3894	884	87	1533
Graham, Samuel, Brooklyn, Iowa. Self-setting animal-trap	625,256	May 16	2375	538	87	1198
Graham, Thornton C., J. H. and W. K. Kellogg, Battle Creek, Mich. Extracting oil from nuts	617,653	Jan. 10	1504	342	86	313
Graham, William, Chicago, Ill. Rail-fastener	620,912	Mar. 14	698	153	86	1650
Graham, William A., Carlisle, Pa. Hydrant	627,111	June 20	1664	363	87	1974
Graham, William E. (See Bowman and Graham.)						
Grahl, Otto F. J. (See Riedel and Grahl.)						
Grahn, Gustavus, Minneapolis, Minn. Window frame, sash, and attachments	618,457	Jan. 31	3059	677	86	658
Gram, Ernst W., assignor of one-half to I. Davis, Las Vegas, and T. B. McNair, East Las Vegas, N. Mex. Ter. Rein-guard	628,265	July 4	585	139	88	114
Grammes, Charles W., *et al.* (See Grammes, Lewis F., assignor.)						
Grammes, Harry A., *et al.* (See Grammes, Lewis F., assignor.)						
Grammes, J. Frank, *et al.* (See Grammes, Lewis F., assignor.)						
Grammes, Lewis F., assignor to himself, H. A., C. W., and J. F. Grammes, Allentown, Pa. Box-nailing machine	635,540	Oct. 24	2926	668, 669, 670	89	626
Granat, Mayer, and L. F. Lamott, Stockton, Cal.; said Lamott assignor to said Granat. Weighing-scoop	622,619	Apr. 4	778	181	87	148
Grand Detour Plow Company. (See Ruef, Charles S., assignor.)						
Grand, Julien, Lyons, France. Acetylene-gas generator	626,608	June 6	693	161	87	1749
Grand Rapids Cycle Company. (See Baker, Henry H., Jr., assignor.)						
Grand Rapids School Furniture Company. (See Linn, Allen D., assignor.)						
Grandmaison, Joseph, assignor of one-half to F. D. Mayo, Lynn, Mass. Rock-drill	631,787	Aug. 29	3839	855	88	1539
Grandmont, Jules de, New York, N. Y. Device for crimping artificial flowers	620,029	Feb. 21	2265	513	86	1293

Alphabetical list of patentees—Continued.

Name, residence, and invention.	No.	Date.	Monthly volume. Spec.	Monthly volume. Drg.	Official Gazette. Vol.	Official Gazette. Page.
Grandy, Edward F., Boston, Mass. Hand nailing implement	618,085	Jan. 24	2351	525	86	511
Graner, John, assignor of one-half to H. D. Coleman, New Orleans, La. Centrifugal molding-machine	635,770	Oct. 31	3358	776	89	722
Grange, Joseph S. (See Cox and Grange.)						
Grange, Wallace S., Malta, Ill. File box or case	623,007	Apr. 11	1483	343	87	303
Grange, Wallace S., Malta, Ill. Desk or cabinet drawer	623,537	Apr. 25	2469	568	87	532
Grange, Wallace S., Malta, Ill. Bookcase	625,103	May 16	2115	480	87	1149
Granger, Albert S. (See Hess and Granger.)						
Granges, Hester des. (See Granges, John C. des, assignor.)						
Granges, John C. des, assignor to H. des Granges, Los Angeles, Cal. Motion-reversing and speed-changing mechanism	637,202	Nov. 14	1892	406	89	1323
Grannatt, Henry C., Colorado Springs, Colo. Ore-concentrator	632,109	Aug. 29	4414	991, 992	88	1652
Grannell, Charles A., Smithfield, Pa. Mortar or grout mixing machine	621,071	Mar. 14	1007	221	86	1708
Grant, Albert E. (See Gardner and Grant.)						
Grant, Arthur W., assignor to Rubber Tire Wheel Company, Springfield, Ohio. Anti-friction-bearing	622,041	Mar. 28	2800	631	86	2084
Grant, Arthur W., assignor to Rubber Tire Wheel Company, Springfield, Ohio. Rubber tire for vehicle-wheels	627,501	June 27	2404	527	87	2138
Grant, Charles H., assignor of one-half to J. Grant, Boston, Mass. Ladder-hook	635,721	Oct. 24	3246	748	89	688
Grant, Charles M. (See Lankford, William J., assignor.)						
Grant, Daniel. Petaluma, Cal. Surveyor's instrument	633,263	Sept. 19	2013	472	88	2130
Grant, Frank S., Waterbury, assignor of one-half to H. C. Armstrong, Yalesville, Conn. Clothes-drier	632,999	Sept. 12	1480	344	88	2014
Grant, George F., Boston, Mass. Golf-tee	638,920	Dec. 12	1362	310	89	2152
Grant, George M., Valley Springs, Cal. Cutting-tool	639,377	Dec. 19	2210	511	89	2335
Grant, James A. C., T. J. Overn, and I. M. House, Gravenhurst, Canada. Currycomb	630,686	Aug. 8	1824	411	88	1090
Grant, James S., San Francisco, Cal. Propeller for vessels	634,574	Oct. 10	1130	268	89	242
Grant, Jott. (See Grant, Charles H., assignor.)						
Grant, Lewis C. (See Grant, Willis C. and L. C.)						
Grant, Samuel S., Montreal, Canada. Adjustable nose-guard for eyeglasses	629,991	Aug. 1	494	108	88	820
Grant, Willis C. and L. C., Willoughby, Ohio. Wire fence	619,403	Feb. 14	1122	254	86	1048
Grant, William W., New York, N. Y. Motor-vehicle	638,331	Dec. 5	271	56, 57	89	1918
Grap, August, Hoboken, N. J. Keg-refrigerator	635,474	Oct. 24	2818	643	89	605
Grapewine, Charles E., San Diego, Cal. Lotion	624,925	May 16	1790	------	87	1088
Grasberger, Benedict J. (See Grasberger, Boniface A. and B. J.)						
Grasberger, Boniface A. and B. J., Richmond, Va. Staple forming and driving apparatus	620,444	Feb. 28	2989	684	86	1445
Grassmann, Hugo R., Philadelphia, Pa. Addressing-machine	629,443	July 25	2770	643, 644, 645	88	596
Grath, Walter P. (See Mitchell, Walter C., assignor.)						
Grath, Walter P., St. Louis, Mo. Furnace	636,037	Oct. 31	3880	891	89	824
Gratz, Martin, Butte, and G. W. Shaw, Helena, Mont. Wheel	627,998	July 4	77	14	88	16
Grau, Joseph, New York, N. Y. Carbureter	629,246	July 18	2402	557	88	502
Graus, Frank, Jersey City, N. J. Attachment for stringed instruments	627,410	June 20	2240	494	87	2089
Grave, Lothar von, Wallingford, Conn., assignor of one-third to G. C. Waldo, Mount Vernon, N. Y. Coupling device for flexible tubing	624,477	May 9	978	217	87	912
Grave, Lothar von, Wallingford, Conn., assignor of one-third to G. C. Waldo, Mount Vernon, N. Y. Camera-base	625,392	May 23	2620	596	87	1271
Gravely, Willis L., assignor of two-thirds to J. E. Perkinson, Danville, and J. P. Hunt, Chatham, Va. Pocket cigarette-machine	622,142	Mar. 28	2986	674	86	2122
Graves, Frederick S., Hancock, Me. Clothes-pin	638,507	Dec. 5	612	127	89	1983
Graves, George H. (See Kjerner, Ragnor L., assignor.)						
Graves, George W. (See Moon and Graves.)						
Graves, John, assignor, by mesne assignments, to F. T. Morrill, New York, N. Y. Sheet-metal mantel	625,104	May 16	2117	481	87	1149
Graves, John W., Little Rock, Ark. Cotton-gin	633,993	Oct. 3	20	5, 6, 7	89	7
Graves, John W., Little Rock, Ark. Cotton-gin	633,994	Oct. 3	23	7, 8	89	8
Graves, John W., Little Rock, Ark. Cleaner and conveyer for seed-cotton	633,995	Oct. 3	26	9	89	9
Graves, John W., Little Rock, Ark. Lint-cotton accumulator and conveyer	633,996	Oct. 3	29	9, 10	89	9
Graves, Lewis H. (See James and Graves.)						
Graves, Marion, *et al.* (See Graves, Philander H., assignor.)						
Graves, Philander H., Chicago, Ill. Horseshoe	631,296	Aug. 22	2919	660	88	1348
Graves, Philander H., assignor to M. Graves and C. G. Bird, Chicago, Ill. Elevator-dump	627,184	June 20	1788	392	87	1999
Graves, William D., St. Ansgar, Iowa. Belt-shifter	621,655	Mar. 21	2054	458	86	1924
Grawitz, Christian H., Easton, Pa. Couch	634,212	Oct. 3	430	110	89	89
Gray, Albert L., St. Louis, Mo. Catamenial sack	626,159	May 30	4114	937	87	1573
Gray, Arthur W., Keota, Iowa. Vehicle attachment	632,050	Aug. 29	4297	966	88	1629
Gray, Benjamin, Los Angeles, Cal. Hair-curling iron	628,580	July 11	1189	278	88	249
Gray, Cassius M., Titusville, Pa. Hydrocarbon-burner	628,659	July 11	1362	318	88	283
Gray, Charles A., Kansas City, and F. H. Farrar, North Rosedale, Kans. Liquid-meter	628,312	July 4	692	161	88	133
Gray, Charles B. (See Sanderson, James F., assignor.)						
Gray, Charles F. (See Herron and Gray.)						
Gray, Earl D., Salt Lake City, Utah. Pessary	618,865	Feb. 7	91	19	86	822
Gray, Edward E. (See Gray, Elisha and E. E.)						
Gray, Elisha, Highland Park, Ill. Transmission of sound and device for carrying same into effect	636,520	Nov. 7	510	112, 113	89	1024
Gray, Elisha and E. E., Highland Park, Ill. Lamp	618,660	Jan. 31	3431	765	86	730
Gray, Elisha, Highland Park, Ill., and A. J. Mundy, Newton, Mass. Transmission of sound	636,519	Nov. 7	502	111, 112	89	1023
Gray, Emmett J., *et al.* (See Fournier, Joseph H., assignor.)						
Gray, Frank. (See Cox and Gray.)						
Gray, Frank, Chicago, Ill. Valve and alarm	625,161	May 16	2202	499, 500	87	1165
Gray, Frank, Chicago, Ill. Valve apparatus	635,771	Oct. 31	3359	777	89	722
Gray, Frank, and C. D. Cox, Chicago, Ill. Dry-service valve	626,654	June 6	788	180	87	1767
Gray, Gardner B., Crafton, Pa. Signal mechanism	631,869	Aug. 29	3967	887, 888	88	1565
Gray, Granville H., Marion, Ind., assignor to Golden Gate Fruit Jar Company, of California. Mold for glassware	634,107	Oct. 3	232	59	89	49
Gray, Henry W., Philadelphia, Pa. Upright grand piano	629,072	July 18	2095	489	88	445
Gray, Henry W., Philadelphia, Pa. Metal piano-brace	632,260	Sept. 5	94	20, 21	88	1725
Gray, John H. (See Heyland and Gray.)						
Gray, Joseph A., Adin, Cal. Voting-machine	620,767	Mar. 7	428	88	86	1585
Gray National Telautograph Company. (See Tiffany, George S., assignor.)						
Gray, Nelson, Louisville, Ky. Folding car-step	623,400	Apr. 18	2222	509	87	464

Alphabetical list of patentees—Continued.

Name, residence, and invention.	No.	Date.	Monthly volume. Spec.	Monthly volume. Dr'g.	Official Gazette. Vol.	Official Gazette. Page.
Gray, Nelson, Louisville, Ky. Car step and platform	623,401	Apr. 18	2224	510	87	464
Gray, Robert. (See Meehan and Gray.)						
Gray, Robert E. L., Tornado, W. Va. Egg-crate	617,011	Jan. 3	285	63	86	57
Gray, Samuel, assignor of one-half to C. Westbrook, Jr., Harrisburg, Pa. Shade-hanger	620,301	Feb. 28	2751	630	86	1401
Gray, Samuel, assignor of one-half to C. Westbrook, Jr., Harrisburg, Pa. Shade-hanger	624,926	May 16	1791	403	87	1089
Gray, Samuel, assignor of one-half to C. Westbrook, Jr., Harrisburg, Pa. Shade-hanger	639,895	Dec. 26	3153	725	89	2538
Gray Telephone Pay Station Company. (See Gray, William, assignor.)						
Gray, Thomas J. (See Edwards and Gray.)						
Gray, Thomas U., and F. Bass, London, England. Rotary motor	621,656	Mar. 21	2055	459, 460	86	1925
Gray, William, assignor to Gray Telephone Pay Station Company, Hartford, Conn. Telephone-call register	636,134	Oct. 31	4093	937	89	867
Gray, William, assignor to Gray Telephone Pay Station Company, Hartford, Conn. Coin-holder for telephone pay-stations	636,135	Oct. 31	4095	937	89	868
Gray, William B., Ashland, Oreg. Plow	624,785	May 9	1522	347	87	1020
Gray, William H. (See St. Peter, Louis, assignor.)						
Gray, William H., San Leandro, Cal. Hay-press	629,030	July 18	2021	470	88	431
Grayson, Alfred, and W. J. Spratley, London, England. Brick	637,332	Nov. 21	2150	464	89	1390
Greb, Charles H., and E. B. Heid, Canal Dover, Ohio. Automatic stool	623,008	Apr. 11	1484	343	87	303
Greeff, Emil. (See Kluge, Franz, assignor.)						
Greeley, Alton H., and C. O. Bartlett, Cleveland, Ohio. Dumping-wagon	640,129	Dec. 26	3576	823	89	2627
Green, Albert E., Rockford, Ill. Cultivator	639,171	Dec. 12	1788	414	89	2235
Green, Alexander R., Houston, Va. Car-truck	638,665	Dec. 5	889	195, 196	89	2039
Green, Charles. (See Ingalsbe, Judson W., assignor.)						
Green, Charles, and J. P. O'Sullivan, Washington, D. C. Street-indicator for railway-cars	624,478	May 9	979	217, 218	87	912
Green, Charles E., *et al.* (See Fraser, Ethelbert M., assignor.)						
Green, Charles E., Pittsburg, Pa. Billiard-cue-tip fastener	626,062	May 30	3896	885	87	1533
Green, Charles F. (See Lloyd, Charles A., assignor.)						
Green, Eddie V., assignor of two-thirds to A. C. Markley, Topeka, and G. W. Markley, Carbondale, Kans. Machine-sickle grinder	630,687	Aug. 8	1825	412	88	1090
Green, Eddie V., assignor of two-thirds to A. C. Markley, Topeka, and G. W. Markley, Carbondale, Kans. Mowing-machine-sickle grinder	630,688	Aug. 8	1827	412	88	1091
Green, George W., North Sydney, New South Wales. Expanding bit for boring wood, &c.	622,463	Apr. 4	482	113	87	89
Green, Henry, assignor to Acme Harvester Company, Pekin, Ill. Hay-rake	632,012	Aug. 29	4222	950, 951	88	1614
Green, Henry, assignor to Acme Harvester Company, Pekin, Ill. Hay-rake attachment	632,013	Aug. 29	4224	951	88	1614
Green, Henry H. (See Bouton Green, Ross, and Chainey.)						
Green, Henry H., *et al.* (See Clark, Horace J., assignor.)						
Green, John E. (See Sentenne and Green.)						
Green, Joseph W., Jr., and G. Astill, Easthampton, Mass. Woven elastic fabric	628,934	July 18	1857	430	88	398
Green, Martin A., Philadelphia, Pa. Rotary engine	627,922	June 27	3173	695, 696	87	2293
Green, Samuel M., Holyoke, Mass. Winding-machine	630,343	Aug. 8	1161	255	88	967
Green, Thomas C. (See Dale and Green.)						
Green, Thomas F., Pittsburg, Pa. Magnetic switch-operating mechanism	638,631	Dec. 5	837	182	89	2026
Green, Thomas W., assignor to Wilbraham Baker Blower Company, Philadelphia, Pa. Rotary blower	622,949	Apr. 11	1376	316	87	281
Green, Thomas W., assignor to Wilbraham Baker Blower Company, Philadelphia, Pa. Journal-box	627,456	June 20	2321	511	87	2105
Green, Walter R., Salt Lake City, Utah. Washing-machine	618,504	Jan. 31	3149	696	86	675
Green, Willard R. (See Howard, Augustus, assignor.)						
Green, Willard R. (See Howard and Green.)						
Green, William M., and J. R. Gent, Chicago, Ill. Furnace-grate	637,108	Nov. 14	1678	364	89	1283
Green, William W., Chicago, Ill. Clamp for stopping leaks in hose, &c.	625,257	May 16	2377	539	87	1198
Greenawalt, John E., assignor of one-half to W. Robinson, Denver, Colo. Extracting precious metals from their ores	631,040	Aug. 15	2459	557	88	1240
Greenawalt, Peter C., assignor of one-half to I. G. Shoemaker, Reading, Pa. Door check and holder	622,620	Apr. 4	780	181	87	149
Greenburg, George G., Chicago, Ill. Making bimetallic coins or checks	632,938	Sept. 12	1385	320	88	1994
Greene, Charles H. (See Kemler and Greene.)						
Greene, Harlie E., and J. W. Haley, Hot Springs, Ark. Fire-alarm	623,009	Apr. 11	1486	344	87	303
Greene, Joel H., Dubuque, Iowa. Attachment for beds	622,000	Mar. 28	2734	617	86	2072
Greene, John W., Waverly, N. Y. Single-piece sheet-metal spout	622,222	Apr. 4	46	11	87	12
Greene, Willard B., Wakefield, Mass. Eyeglasses	626,536	June 6	581	135	87	1727
Greene, William J., Cedar Rapids, Iowa. Automatic cut-out for electrical transformers	620,302	Feb. 28	2752	630, 631	86	1401
Greenfield, Edwin T., New York, N. Y. Metallic conduit for electric wires	630,501	Aug. 8	1490	333	88	1026
Greenfield, Edwin T., New York, N. Y. Machine for making armored electric cables	630,502	Aug. 8	1491	334, 335	88	1027
Greenfield, Edwin T., New York, N. Y. Method of and mechanism for constructing electric conduits and armoring flexible tubes and electric cables	630,503	Aug. 8	1496	335	88	1027
Greenfield, Edwin T., New York, N. Y. Flexible electrical conduit or tube	634,169	Oct. 3	344	87	89	71
Greenfield, Edwin T., New York, N. Y. Electrical house-wiring	637,457	Nov. 21	2375	514	89	1435
Greenham, Grant. (See Raunacher, Gustav, assignor.)						
Greenhouse, John, Pittsburg, Pa. Folding and interlocking hose-bridge	626,421	June 6	381	89	87	1688
Greenhouse, Martin E., assignor to S. B. Greenhouse, Camden, N. J. Pattern-operated mechanical movement	638,573	Dec. 5	721	154	89	2004
Greenhouse, Sarah B. (See Greenhouse, Martin E., assignor.)						
Greenhow, Thomas P., assignor to G. W. Nachman, S. Oberndorf, M. and J. Pels, Baltimore, Md. Non-refillable bottle	623,010	Apr. 11	1489	345	87	304
Greenleaf, Abner, Baltimore, Md. Linotype-machine	631,989	Aug. 29	4179	940	88	1605
Greenleaf, Latham W., Terre Haute, Ind. Boring attachment for mortising-machines	629,787	Aug. 1	46	12	88	730
Greenstreet, Ferdinand, Haddam, Kans. Husking-glove	629,901	Aug. 1	285	64	88	776
Greenstreet, Jason H., Indianapolis, Ind. Box	628,531	July 11	1100	256	88	231
Greenwald, Joseph L., trustee. (See Mason, James A., assignor.)						
Greenwood, Alexander S., assignor of one-half to J. T. Kendall, Chicago, Ill. Receptacle for combustible liquids	632,563	Sept. 5	654	152	88	1836
Greenwood, Charles W. and M. J., Gardner, Mass. Wood-bending machine	631,788	Aug. 29	3842	855	88	1539
Greenwood, Charles W. and M. J., Gardner, Mass. Reciprocating hydraulic press	631,789	Aug. 29	3843	856	88	1539
Greenwood, Guy F., Pittsburg, Pa. Road-bed for railways	621,657	Mar. 21	2060	460	86	1926
Greenwood, Marcus J. (See Greenwood, Charles W. and M. J.)						
Greenwood, Peter F., Richmond, Va. Punching-machine	618,866	Feb. 7	92	19	86	822
Greer, Arthur, Dick's Mill, assignor of one-half to W. F. Quigley, Tipton, Mo. Check-row planter	635,134	Oct. 17	2152	502	89	460

Alphabetical list of patentees—Continued.

Name, residence, and invention.	No.	Date.	Monthly volume. Spec.	Monthly volume. Dr'g.	Official Gazette. Vol.	Official Gazette. Page.
Greer, Robert P., San Francisco, Cal. Gas-concentrator	617,829	Jan. 17	1860	416	86	402
Greer, William N., Watertown, S. D., assignor of one-half to P. J. Cook, Greeley, Nebr. Compound tool	634,336	Oct. 3	709	169	89	142
Greet, Nicholas S., Somerville, Mass. Transfer device	622,042	Mar. 28	2802	631	86	2085
Greger Manufacturing Company. (See Greger, Thomas P., assignor.)						
Greger, Thomas P., Philadelphia, Pa., assignor to Greger Manufacturing Company, Camden, N. J. Manhole frame and cover	636,201	Oct. 31	4210	968	89	892
Greger, Thomas P., Philadelphia, Pa., assignor to Greger Manufacturing Company, Camden, N. J. Manhole-cover	636,722	Nov. 7	903	200	89	1107
Greger, Thomas P., Philadelphia, Pa., assignor to Greger Manufacturing Company, Camden, N. J. Manhole frame and cover	638,574	Dec. 5	723	154	89	2005
Gregg, Ellis A. (See Price, Isaac W., assignor.)						
Gregg, Gilbert H., Davenport, Iowa. Violin-bow	638,508	Dec. 5	613	127	89	1984
Gregg, James W., Brattleborough, Vt., assignor of one-half to H. O. Edgerton and D. D. Dunklee, Greenfield, Mass. Egg-holder and alarm	636,723	Nov. 7	904	201	89	1108
Gregg, Richard, Oswego, N. Y. Steam-boiler	624,791	May 9	1534	349	87	1022
Gregg, William C., Honolulu, Hawaii. Steam-plow	638,921	Dec. 12	1363	311	89	2152
Gregg, William C., Honolulu, Hawaii. Railway-tie	638,922	Dec. 12	1364	311	89	2152
Gregory, Benjamin F., Sterling, Ill. Artificial-stone divider	635,096	Oct. 17	2073	488	89	446
Gregory, Frank, *et al.* (See Downey, Richard F., assignor.)						
Gregory, James, Bridgeport, Conn. Lathe tool-holder	628,707	July 11	1443	335	88	300
Gregory, William B., Washington, D. C., assignor of one-fourth to A. H. Armstrong, Lincoln, Nebr. Bicycle holder and fastener	621,072	Mar. 14	1008	221, 222	86	1708
Gregory, William H., Lawrenceburg, Ky. Feed-controlling mechanism for grain-crushing mills	621,073	Mar. 14	1010	222	86	1708
Gregson, John, Fall River, Mass. Apparatus for treating yarn	622,001	Mar. 28	2735	618	86	2072
Greig, James A., Willowie, South Australia. Bicycle	636,038	Oct. 31	3881	891	89	825
Greig, William and W. E., Dartford, England. Apparatus for purifying effluent waters	622,423	Apr. 4	398	92	87	74
Greig, William C., and E. Smethurst, Christchurch, New Zealand. Wire-fastener	622,345	Apr. 4	255	59	87	49
Greig, William E. (See Greig, William and W. E.)						
Greiner, Lee W. (See Mock, Henry, assignor.)						
Greiner, William, Philadelphia, Pa. Bicycle-gearing	623,780	Apr. 25	2920	667, 668	87	617
Gremmels, Frederick W., Kansas City, Mo., and C. W. Keller, Chicago, Ill. Cash-carrier	637,245	Nov. 21	1980	424	89	1356
Grenier, Adolph, Cambridge, Mass. Combined folding chair and couch	639,554	Dec. 19	2529	581	89	2398
Grenier, Paul. (See Ponton and Grenier.)						
Grenthal, Isaac. (See Grenthal, Michael and I.)						
Grenthal, Michael and I., New York, N. Y. Hat-band	629,788	Aug. 1	48	13	88	730
Grenthal, Michael and I., New York, N. Y. Hat-band	629,992	Aug. 1	494	108	88	820
Gresset, William T., Richmond, Va. Disk or coin controlled delivery apparatus	623,011	Apr. 11	1490	345, 346	87	304
Gressom, James H., Emerald, Wis. Fifth-wheel	633,000	Sept. 12	1481	344	88	2014
Grether, John, *et al.* (See Wilke, Ferdinand, assignor.)						
Greve, Hermann C., Dayton, Ohio. Cigar-machine	631,297	Aug. 22	2920	661	88	1348
Grey, Henry, Duluth, Minn., assignor to American Universal Mill Company, New York, N. Y. Apparatus for rolling beams, girders, &c	632,181	Aug. 29	4553	1026, 1027, 1028	88	1679
Grey, Henry, Duluth, Minn., assignor to American Universal Mill Company, New York, N. Y. Rolling-mill	635,381	Oct. 24	2593	601, 602, 603	89	561
Grey, Henry, assignor to American Universal Mill Company, New York, N. Y. Rolling-mill	635,382	Oct. 24	2605	603, 604	89	562
Grey, Melville E., Beverly, Mass. Goods-carrying apparatus	634,888	Oct. 17	1680	396, 397	89	366
Grey, Sylvester P., assignor to Horton Manufacturing Company, Fort Wayne, Ind. Gearing for washing-machines	635,475	Oct. 24	2820	643	89	606
Greyer, Bertha A. (See Greyer, Louis A. and B. A.)						
Greyer, Louis A. and B. A., Boston, Mass. Folding carriage	618,032	Jan. 17	2227	496	86	472
Grieb, Alfred, Elizabeth, N. J., assignor to Singer Manufacturing Company, of New Jersey. Hemstitch sewing-machine	639,726	Dec. 26	2846	655, 656	89	2479
Grienauer, Karl, New York, N. Y. Piano	622,464	Apr. 4	484	113	87	90
Gries, Henry, Egg Harbor City, N. J. Wheelbarrow	630,689	Aug. 8	1828	412	88	1091
Griesemer, Edward K., Reading, Pa. Game apparatus	620,445	Feb. 28	2990	684	86	1445
Griffen, Felix J., *et al.* (See Gipe, Emanuel C., assignor.)						
Griffen, Henry R., Phœnixville, Pa. Apparatus for playing duplicate whist	619,404	Feb. 14	1123	254, 255	86	1049
Griffen, John D., New York, N. Y. Safety device for elevators	628,090	July 4	243	55, 56	88	49
Griffin, Cornelius. (See Kromann, Harald J., assignor.)						
Griffin, Frank B., Oshkosh, Wis. Smoke-preventer	626,690	June 13	868	196, 197	87	1802
Griffin, George, Botsford, Conn. Automatic button-lathe	628,981	July 18	1929	450, 451	88	412
Griffin, Gerard F., London, England. Cap and coupling for pipes, tubes, &c	628,793	July 11	1601	369	88	333
Griffin, Harry S., Dudley, N. J., assignor of one-half to C. R. Carver, Philadelphia, Pa. Perforating-machine	617,012	Jan. 3	285	63, 64	86	57
Griffin, Michael J., and J. Pullar, Hartford, Conn. Fifth-wheel	629,500	July 25	2892	673	88	619
Griffin, Thomas J., assignor to H. Riedel, E. McCarthy, and N. Weekes, Galveston, Tex., and Weekes, McCarthy & Co. Cotton-compress. (Reissue)	11,796	Dec. 19	2794	644	89	2451
Griffin, Thomas W., Milford, Conn., assignor to himself and H. C. Goodwin. Pool-table attachment	626,902	June 13	1303	286	87	1884
Griffin, Virgil M., Denver, Colo. Musician's finger-strengthener	638,632	Dec. 5	838	182	89	2027
Griffin, Walter R., Bivins, Tex. Animal-trap	631,790	Aug. 29	3845	857	88	1540
Griffin, Watson E., Reno, Nev. Mail-pouch fastener	630,504	Aug. 8	1498	335	88	1028
Griffin Wheel Company. (See Basener, Anselm, assignor.)						
Griffin Wheel Company. (See Gannon, Edward F., assignor.)						
Griffis, Elias J. (See Magee, Wilber R., assignor.)						
Griffith, Albert W., *et al.* (See Prescott, Joseph D., assignor.)						
Griffith, Amenzo, Springfield, Mass. Combined stove-cover and gas-burner	622,894	Apr. 11	1288	297	87	262
Griffith, Asa W., assignor to Diamond State Iron Company, Wilmington, Del. Spike	630,049	Aug. 1	607	132	88	843
Griffith, Asa W., assignor to Diamond State Iron Company, Wilmington, Del. Rest-plate for railway-rails	633,132	Sept. 19	1757	414	88	2079
Griffith, Asa W., assignor to Diamond State Iron Company, Wilmington, Del. Rail-joint	633,133	Sept. 19	1758	414	88	2079
Griffith, Edward A. (See Hall, Robert A., assignor.)						
Griffith, Hazael, assignor of one-third to P. Clark, Terre Haute, Ind. Acetylene-gas generator	636,221	Oct. 31	4249	976, 977	89	898

Alphabetical list of patentees—Continued.

Name, residence, and invention.	No.	Date.	Monthly volume.		Official Gazette.	
			Spec.	Dr'g.	Vol.	Page.
Griffith, Henry T., Portland, assignor of one-fourth to F. E. and J. A. Rowell, Scholls, Oreg. Derrick fruit-gatherer	620,913	Mar. 14	700	153, 154	86	1651
Griffith, Isaac, Basin, Mont. Clevis	620,914	Mar. 14	702	154	86	1651
Griffith, Jacob K., Latrobe, Pa. Casting and apparatus therefor	618,867	Feb. 7	94	19,20	86	823
Griffith, James. (See Hosler and Pressler, assignors.)						
Griffith, P. S. (See Bock, James H., assignor.)						
Griffith, Phares S., assignor of one-third to R. Bachman, Grand Rapids, Mich. Bicycle-tire	635,929	Oct. 31	3672	848	89	783
Griffith, William, and J. M. Anderson, Pittsburg, Pa. Heating and annealing furnace	639,969	Dec. 26	3295	754	89	2569
Griffith, William, and J. M. Anderson, Pittsburg, Pa. Heating and annealing furnace	639,970	Dec. 26	3296	754, 755	89	2569
Griffith, William R. (See Wright and Griffith.)						
Griffiths, Alfred. (See Pearce and Griffiths.)						
Griffiths, Alfred, Manchester, England. Workman's time-recorder	627,957	June 27	3235	709, 710	87	2306
Griffiths, Ellis W., Galva, assignor of one-half to F. D. Nichols, Norfolk, Kans. Weed and trash cutter for hoe and lister drills	629,559	July 25	2992	699	88	638
Griffiths, Ernest H., and W. C. D. Whetham, Cambridge, England. Mechanism for controlling and indicating temperature limits	633,191	Sept. 19	1864	439	88	2100
Griffiths, Thomas, assignor of one-half to W. T. Hawkins, Fishkill, N. Y. Pipe connection for railway-cars	618,661	Jan. 31	3433	765	86	731
Griffiths, William U., Philadelphia, Pa. Spray-nozzle for urinals	639,971	Dec. 26	3297	755	89	2569
Griffitt, Emanuel, assignor of one-half to H. A. Powers, Lindale, Ga. Automatic fan attachment for rocking-chairs, cradles, &c	633,001	Sept. 12	1483	345	88	2014
Griggs, David C. (See Rowbottom and Griggs.)						
Grignon, Urgel, Ottawa, Canada. Harness-hanger	619,405	Feb. 14	1128	255	86	1050
Grigor, John R., Vancouver, Canada. Bouquet-holder	627,923	June 27	3178	696	87	2294
Grigsby, William F., Mount Carmel, Ill. Carpet-stretcher	620,120	Feb. 28	2435	550	86	1339
Grill, Levi, assignor of one-half to C. O. Bartlett & Co., Clevelar l, Ohio. Rotary drier	631,298	Aug. 22	2921	661, 662	88	1348
Grim, Edward H., East Radford, Va. Planter	636,659	Nov. 7	778	170	89	1079
Grim, John W. (See Duty, John W., assignor.)						
Grimball, Helen E., Union, S. C. Appliance for keeping poultices warm	619,564	Feb. 14	1395	320	86	1101
Grimes, Alvah E., assignor to Hopkins & Allen Manufacturing Company, Norwich, Conn. Cartridge-ejector for firearms	619,565	Feb. 14	1396	321	86	1101
Grimland, Yeren, Clifton, Tex. Plow	622,346	Apr. 4	256	59	87	49
Grimm, Paul H., Glencove, N. Y. Rotary steam-drier	621,074	Mar. 14	1012	222	86	1709
Grimm, Peter, Detroit, Mich. Vapor-burner	623,012	Apr. 11	1494	346	87	305
Grimoin-Sanson, Raoul A., and A. J. Allard, Paris, France. Roundabout	637,508	Nov. 21	2464	535	89	1452
Grimsrud, Olaus L., Lead, S. D. Vehicle-wheel	621,658	Mar. 21	2060	461	86	1926
Grindrod, John, Los Angeles, Cal. Rotary pump or motor	628,906	July 11	1804	420, 421	88	371
Grindrod, John R., Lynn, Mass., assignor to General Electric Company, of New York. Retaining-band for commutators	619,299	Feb. 14	954	216	86	1016
Grinley, Bennedeck B., and A. Coleman, Portland, N. D. Smut-mill	633,447	Sept. 19	2357	555, 556	88	2196
Gripman, Christopher M., *et al.* (See Gripman, Walter H., assignor.)						
Gripman, Samuel, *et al.* (See Gripman, Walter H., assignor.)						
Gripman, Silas, *et al.* (See Gripman, Walter H., assignor.)						
Gripman, Walter H., Sioux Falls, S. D., assignor of one-half to C. M., S., and S. Gripman, Austin, Minn. Cartridge-reloading tool	637,730	Nov. 21	3243	675	89	1645
Grismer, Joseph R., New York, N. Y. Theatrical appliance	635,043	Oct. 17	1952	462	89	421
Grisso, Adam, North Webster, Ind. Hame-tug	639,229	Dec. 19	1918	441	89	2274
Grisso, Adam, North Webster, Ind. Hame-tug	639,230	Dec. 19	1919	441	89	2274
Grissom, William. (See Terry and Grissom.)						
Griswold, Glen G., Wheeler, Ohio. Tool-shank connection	631,041	Aug. 15	2462	557	88	1241
Griswold, Henry D., Olneyville, R. I. Sprocket-wheel-chain case	628,406	July 4	851	200	88	163
Griswold, Herbert. (See Smith, Andrew J., assignor.)						
Gritman, Abel D. (See Snow and Gritman.)						
Groebli, Joseph A., assignor to Kursheedt Manufacturing Company, New York, N. Y. Embroidering-machine	618,458	Jan. 31	3061	677, 678	86	659
Groebli, Joseph A., assignor to Kursheedt Manufacturing Company, New York, N. Y. Jacquard-card-punching machine	627,256	June 20	1912	421, 422, 423	87	2025
Groebli, Joseph A., assignor to Kursheedt Manufacturing Company, New York, N. Y. Embroidering-machine	637,458	Nov. 21	2377	514, 515	89	1435
Groebli, Joseph A., assignor to Kursheedt Manufacturing Company, New York, N. Y. Machine for plaiting or goffering fabrics	637,865	Nov. 28	3512	733, 734	89	1719
Groebli, Joseph A., and A. H. Kursheedt, New York, N. Y., assignors to said Kursheedt. Machine for mixing spangles	629,073	July 18	2096	489, 490	88	445
Groeschel, Anton, Cincinnati, Ohio. Machine for providing leather soles with plugs	637,779	Nov. 28	3332	697, 698	89	1682
Groeschel, Edwin W., Jersey City, N. J. Hook and eye	628,143	July 4	349	83	88	71
Groff, John M. (See Loy and Groff.)						
Groff, Llewellyn, Chicago, Ill. Machine for making printers' rollers	623,538	Apr. 25	2471	569	87	532
Grogan, Thomas J. (See Parrish, Elmer A. assignor.)						
Grohmann, Carl L., assignor to Pratt & Whitney Company, Hartford, Conn. Speed-changing mechanism for screw-machines	628,794	July 11	1601	369	88	333
Grohs, Charles V. (See Macy and Grohs.)						
Groll, Charles, Roubaix, France. Fuel-feed device for furnaces	619,167	Feb. 7	710	153	86	950
Groll, Charles, Roubaix, France. Self-feeding smoke-consuming furnace	637,731	Nov. 21	3245	675, 676	89	1646
Groll, Charles, Roubaix, France. Rotary grate for furnaces	637,732	Nov. 21	3246	676	89	1646
Gronau, Friedrich, Leipsic, Germany. Mechanical musical instrument	627,999	July 4	2458	15,16	88	17
Groneman, Fred C., Whittemore, Iowa. Medicine-box	625,757	May 30	3265	740	87	1415
Gronquist, John L. (See Walquist, Nelson, and Gronquist.)						
Groom, Andrew D., Glenora, Pa. Automatic drilling-machine	633,512	Sept. 19	79	579	88	2216
Gros, George, Waterbury, Conn. Vaporizer	617,156	Jan. 3	572	134, 135	86	112
Groseclose, Clarence, Sylvia, Kans. Traction-wheel	635,246	Oct. 17	2337	545	89	494
Groshans, Ferdinand, Baltimore, Md. Dental flask	620,303	Feb. 28	2754	631	86	1401
Grosjean, James E., Lima, Ohio. Spectacular machine	639,810	Dec. 26	3010	693, 694	89	2512
Gross, August. (See Waibel and Gross.)						
Gross, August C. T., Philadelphia, Pa. Photograph-mounting	630,215	Aug. 1	897	198	88	899
Gross, Christian. (See Henderson, Thomas J., assignor.)						
Gross, Frank, Hesperus, Colo. Cultivator	627,457	June 20	2322	511	87	2105

Alphabetical list of patentees—Continued.

Name, residence, and invention.	No.	Date.	Monthly volume. Spec.	Monthly volume. Dr'g.	Official Gazette. Vol.	Official Gazette. Page.
Gross, Godfrey. (See Groves. John D., assignor.)						
Gross, Howard H., Chicago, Ill. Panorama	624,479	May 9	980	218	87	912
Gross, Ludwig, Merzig, Germany. Templet for drilling wooden railway cross-sleepers	627,112	June 20	1666	363	87	1975
Gross, Ludwig L., Petaluma, Cal. Vacuum-tank and water-lifter	625,882	May 30	3521	800	87	1464
Gross, Ludwig L., Petaluma, Cal. Vacuum-tank and water-lifter	636,136	Oct. 31	4097	938	89	868
Grossé, Jan, Kiew, Russia. Sugar-boiling	631,072	Aug. 15	2518	570	88	1252
Grosse, Johann B., Leipsic-Lindenau, Germany. Printing-press	638,237	Dec. 5	61	14	89	1878
Grosset, Auguste E., Brussels, Belgium. Cycle-speeding machine	629,746	July 25	3330	777, 778	88	703
Grossman, Lorenz S. (See Raab and Grossman.)						
Grosswyler, Kilian, Zurich, Switzerland. Apparatus for regulating the level of liquid	628,581	July 11	1191	278	88	249
Grote, Henry J., Chicago, Ill. Hat-fastener	622,002	Mar. 28	2737	618	86	2072
Grote, Ludwig, London, England. Machine for manufacturing glass bottles	628,313	July 4	697	161, 162	88	134
Grotenhuis, William J., Chicago, Ill. Toe-clip for velocipede-pedals	618,937	Feb. 7	233	53	86	849
Groterjan, Christoph, Berlin, Germany. Bottle-washing apparatus	639,378	Dec. 19	2211	511	89	2335
Grotz, Albert R., Lazearville, W. Va. Mold for pressed glassware and pottery-ware	636,795	Nov. 14	1086	233	89	1168
Groundman, Augustus F., Albany, N. Y. Lemon-juice extractor	633,997	Oct. 3	31	10	89	10
Grout, Martin B., assignor of one-half to T. W. Moore, North Yakima, Wash. Composition of matter for repairing tires	632,110	Aug. 29	4418	------	88	1653
Grout, Ransom A., Estherville, Iowa. Combined way-bill, consignee's-receipt, and agent's-record envelop	618,662	Jan. 31	3435	766	86	731
Grout, Ransom A., Estherville, Iowa. Magazine-camera	638,455	Dec. 5	515	106, 107	89	1966
Groutage, James, Redcanon, assignor of one-half to W. F. Buck, Almy, Wyo. Self-lubricating axle	622.003	Mar. 28	2738	618	86	2072
Grouvelle, Antoine, and E. Belot, Paris, France. Tobacco-distributing device	629,960	Aug. 1	438	94	88	809
Grouvelle, Antoine, and E. Belot, Paris, France. Machine for molding cigar-bunches	631,299	Aug. 22	2923	662, 663	88	1348
Grouvelle, Antoine, and E. Belot, Paris, France. Machine for molding fillers for cigars	636,660	Nov. 7	781	170, 171, 172	89	1080
Grove, Anna, administratrix. (See Grove, James N.)						
Grove, Edwin W., St. Louis, Mo. Tasteless quinin powder and making same	631,632	Aug. 22	3538	------	88	1472
Grove, Edwin W., St. Louis, Mo. Quinin compound	633,448	Sept. 19	2359	------	88	2196
Grove, Frank G., and F. E. Stover, Luray, Va. Folding umbrella	639,556	Dec. 19	2531	581	89	2389
Grove, James N., deceased, Railroad; A. Grove, administratrix, assignor of one-half to W. G. Allen, Shrewsbury, Pa. Tool for marking cogs in mortise-wheels	627,411	June 20	2241	494	87	2089
Grove, Ralph M., New York, N. Y., assignor, by mesne assignments, to Standard Ball Bearing Caster Company, Newark, N. J. Ball-caster	621,605	Mar. 21	1965	439	86	1906
Groven, Edward, Bagley, Minn. Straw-stacker	628,144	July 4	351	83, 84	88	71
Grover, Albert D. (See Romans and Grover.)						
Grover, Albert D., Malden, Mass. Pencil	638,923	Dec. 12	1365	311	89	2152
Grover, George B., Lynn, Mass. Weather-strip	630,216	Aug. 1	898	198	88	899
Grover, George E., Chicago, Ill., assignor of one-half to J. H. Dodden, Emmetsburg, Iowa. Automatic gate for bridges	638,633	Dec. 5	840	183	89	2027
Grover, Samuel K., Providence, R. I. Suspender-buckle	630,050	Aug. 1	609	133	88	844
Groves, John D., Maplewood, assignor of one-half to G. Gross, Jackson Centre, Ohio. Corn shocker and carrier	624,646	May 9	1279	285, 286	87	969
Grow, William H., Winfield, Kans. Method of and means for constructing embedded inclosures	625,258	May 16	2378	539, 540	87	1199
Grow, William H., assignor of one-half to G. Emerson, Winfield, Kans. Thill-coupling	625,498	May 23	2809	640	87	1307
Grubb, R. W. (See Lewis, James S., assignor.)						
Grubb, William I. (See Reber and Grubb.)						
Grubbs, John C., *et al.* (See Dingman, Allen H., assignor.)						
Grube, Charles O., New York, N. Y. Filtering device	628,935	July 18	1858	430	88	398
Gruber, Albert C., Warren, Pa. Drill-grinder	635,999	Oct. 31	3815	877	89	812
Gruber, Julius, Lansing, Iowa. Vent-valve for pipes	628,532	July 11	1100	256	88	232
Grubinski, Jan, Warsaw, Russia. Device for superheating steam	620,704	Mar. 7	309	62	86	1561
Gruendler, Gustav J., St. Louis, Mo. Adhesive	633,834	Sept. 26	3054	------	88	2349
Grueninger, Carl F. (See Williams and Grueninger.)						
Grueninger, Edward, assignor of one-half to E. Ritzler, Cincinnati, Ohio. Automatic liquid-weighing faucet and scale	630,808	Aug. 8	2026	457	88	1132
Gruhlke, Augustus C., Waterloo, Ind. Cigar-lighter	628,982	July 18	1934	451	88	414
Grund, Hermon, *et al.* (See Winters, Frederick V., assignor.)						
Grund, Louisa, *et al.* (See Winters, Frederick V., assignor.)						
Grundy, John J. (See Maynard, Edward and G., assignors.)						
Grunow, William, Jr., assignor of two-thirds to J. H. McElroy, Bridgeport, Conn., and J. A. McElroy, New York, N. Y. Contact system for electric railways	631,073	Aug. 15	2519	570, 571, 572	88	1252
Grünzweig, Carl, Ludwigshafen, Germany. Manufacture of stone, &c., from kieselguhr, &c	620,446	Feb. 28	2991	------	86	1445
Grush, Henry G., Boston, Mass. Conductor and cable terminal	635,960	Oct. 31	3724	861	89	792
Gruver, Hiram G., *et al.* (See Kline, John, assignor.)						
Gschwendtner, George, Cincinnati, Ohio. Washing-machine	618,568	Jan. 31	3265	724, 725	86	697
Guadagnini, Alfonso. (See Veronese and Guadagnini.)						
Guarantor Electric Company. (See Ashley, Ralph, assignor.) (Reissue.)						
Guasco, André, Paris, France. Sterilizing-spittoon	629,031	July 18	2023	471	88	431
Guay, Wilfrid, Springfield, Mass. Ice-velocipede	638,575	Dec. 5	724	155	89	2005
Gubbins, Richard R. (See Loog and Gubbins.)						
Gudeman, Samuel, Eureka, Ill. Filter	627,729	June 27	2830	620	87	2222
Gudenburr, Mary E., Pittsburg, Pa. Oil-can	625,162	May 16	2204	500	87	1165
Gudmundson, Sven P., San Francisco, Cal. Saw-filing device	635,476	Oct. 24	2822	644	89	606
Gue, David J., *et al.* (See Gue, Harry D., assignor.)						
Gue, David J., assignor of one-half to F. J. Price, New York, N. Y. Cuff attachment	618,569	Jan. 31	3266	725	86	697
Gue, Harry D., assignor to F. J. Price and D. J. Gue, New York, N. Y. Gas-burner	628,708	July 11	1444	335	88	300
Guedel, John, Indianapolis, Ind. Saw	627,113	June 20	1667	364	87	1975
Guenther, George G., Orange, Cal. Circular tree-cultivator	620,546	Feb. 28	3175	727	86	1481
Guenzel, Ernst J., Milwaukee, Wis. Hat-support for theater-seats	628,533	July 11	1101	257	88	232
Guerrant, George M., Richmond, Va. Tobacco-stemming machine	630,344	Aug. 8	1163	255, 256	88	967
Guertin, Henry C., Winchendon, and J. N. Guertin. Westborough, Mass. Cuff-holder	634,133	Oct. 3	283	69	89	59
Guertin, John N. (See Guertin, Henry C. and J. N.)						
Guest, Arthur R., and E. T. Richmond, London, England. Type for Arabic characters	639,379	Dec. 19	2212	512	89	2335

Alphabetical list of patentees—Continued.

Name, residence, and invention.	No.	Date.	Monthly volume. Spec.	Monthly volume. Dr'g.	Official Gazette. Vol.	Official Gazette. Page.
Guest, Joseph, Homestead, assignor of one-half to W. H. R. Hilliard, Pittsburg, Pa. Rolling metal	636,521	Nov. 7	514	113	89	1025
Guest, Walter J. L., Alphington, Victoria. Vise	636,661	Nov. 7	785	172	89	1080
Guethler, William, Philadelphia, Pa. Boiler-tube cleaner	636,333	Nov. 7	175	39	89	956
Guett, Monroe, assignor to Hart & Hegeman Manufacturing Company, Hartford, Conn. Snap-switch	637,246	Nov. 21	1982	424	89	1356
Guett, Monroe, assignor to Hart & Hegeman Manufacturing Company, Hartford, Conn. Electrical snap-switch	639,557	Dec. 19	2533	582	89	2399
Gugler Lithographic Company. (See Kaufmann, Hermann P., assignor.)						
Guice, Benjamen R. (See Blount and Guice.)						
Guilbault, Trefflé, assignor of one-half to J. Henkel, Montreal, Canada. Bedstead	623,956	Apr. 25	3251	748	87	680
Guilbert, John M., Philadelphia, Pa. Hook for garments	626,691	June 13	869	197	87	1802
Guild, Charles T., North Attleborough, Mass. Wrench	620,121	Feb. 28	2437	551	86	1340
Guild, Henry M., Erie Pa. Hydraulic dredging-machine	621,408	Mar. 21	1605	355, 356	86	1838
Guillaume, Charles E., Sevres, and L. C. Dumas, assignors to Société Anonyme de Commentry-Fourchambault, Paris, France. Manufacture of alloys	626,609	June 6	695	------	87	1749
Guillaume, Charles E., Sevres, and L. C. Dumas, assignors to Société Anonyme de Commentry-Fourchambault, Paris, France. Alloy of iron and nickel and articles made therefrom	626,655	June 6	790	------	87	1768
Guillaume, Emile, Paris, France. Distillatory column	631,461	Aug. 22	3215	730, 731	88	1407
Guinan, John, New York, N. Y. Ball-caster	635,680	Oct. 24	3181	732	89	675
Guindon, Abraham G., Detroit, Mich. Extensible shoe-filler	629,853	Aug. 1	181	42	88	756
Guingrich, Samuel C. (See Ziegenhorn and Guingrich.)						
Guinnip, Arthur B., assignor of one-half to A. M. Nelson, Seneca Falls, N. Y. Bicycle-pump	636,522	Nov. 7	516	114	89	1025
Guinzburg, Julius M. (See Frankl, Albert A., assignor.)						
Guise, William L., assignor of two-thirds to R. F. Bopp and E. J. Cooper, Dover, N. J. Tool-support for metal-turning lathes	630,778	Aug. 8	1969	445	88	1120
Gulden, Paul R., Leipsic, Germany. Seat or saddle support in cycles	632,564	Sept. 5	656	152	88	1836
Gulich, Ashley J., Clearfield, Pa. Circular-knitting machine	623,539	Apr. 25	2474	569, 570	87	533
Gulick, Arthur C., Kenosha, Wis. Insect-screen	628,936	July 18	1859	431	88	398
Gulick, William R., Bay Head, N. J. Speeder for bicycles	629,032	July 18	2024	471	88	432
Gulland, Charles, Pittsburg, Pa. Pneumatic signal for railway-trains	632,813	Sept. 12	1158	265	88	1952
Gulland, Charles, Pittsburg, Pa., assignor of three-fourths to M. McDaniel and J. F. Courson. Valve. (Reissue)	11,722	Mar. 14	1445	319	86	1794
Gumbes, Charles W., Jr., Philadelphia, Pa. Signal	626,903	June 13	1305	287	87	1885
Gummere, William H., South Bethlehem, Pa. Partitioning device for railway-cars	633,835	Sept. 26	3055	710	88	2349
Gunderson, Gunder J., Chicago, Ill. Friction-clutch	635,477	Oct. 24	2823	644	89	606
Gunderson, John G. (See Stewart, George H., assignor.)						
Gundlach Optical Company. (See Wallace, Laird H., assignor.)						
Gundlach, Robert. (See Batcheller and Gundlach.)						
Gundorph, Ferdinand, San Francisco, Cal. Gyrating-pendulum escapement	626,807	June 13	1083	244	87	1842
Gunlock, William C., and G. W. Thwing, assignors of one-third to J. E. Palmer, Victoria, Tex. Baling-press	633,513	Sept. 19	2461	580	88	2217
Gunn, Joseph H., McLean, N. Y. Thrust-bearing for grinding-mills	628,314	July 4	701	162	88	134
Gunn, William A., Lexington, assignor of one-half to W. E. Gunn, Covington, Ky. Bridge	630,809	Aug. 8	2027	457	88	1132
Gunn, William E. (See Gunn, William A., assignor.)						
Gunn, William E., Covington, Ky. Bridge	629,902	Aug. 1	286	65	88	777
Gunnell, Elias, assignor of one-half to W. I. Babcock, Chicago, Ill. Riveting	624,927	May 16	1792	404	87	1089
Gunnell, Elias, assignor of one-half to W. I. Babcock, Chicago, Ill. Riveting apparatus	624,928	May 16	1794	404, 405	87	1089
Gunnell, Elias, assignor of one-half to W. I. Babcock, Chicago, Ill. Pneumatic hammer	632,261	Sept. 5	95	21	88	1725
Gunnell, Elias, assignor of one-half to W. I. Babcock, Chicago, Ill. Pneumatic hammer	632,262	Sept. 5	98	21	88	1726
Gunning, John, Bournemouth, England. Time light-extinguisher	631,522	Aug. 22	3333	757	88	1431
Gunter, Andrew J., Norwood, Ohio. Bellows	631,569	Aug. 22	3435	776	88	1451
Gunter, Andrew J., Norwood, Ohio. Plow	635,247	Oct. 17	2338	546	89	495
Gunter, William W., Stanberry, Mo. Combined ventilator and heating-drum	629,961	Aug. 1	439	94	88	809
Gunther, James I., New York, N. Y. Electric push-button cut-out	631,633	Aug. 22	3538	797	88	1472
Günzburg, Ury de, Vitry-sur-Seine, France. Preserving and tawing skins	634,337	Oct. 3	710	------	89	143
Gurnee, Isaac Q., Butler, N. J., assignor to Butler Hard Rubber Company, New York, N. Y. Embroidery-ring	627,821	June 27	2992	654	87	2254
Gurney, C. H. (See Twomley, Herbert E., assignor.)						
Gurney, James B., East Setauket, N. Y. Cover for cooking utensils	626,808	June 13	1085	244	87	1842
Gurney, Worth H., Mansfield, Ohio. Umbrella	634,453	Oct. 10	915	219	89	200
Gus V. Brecht Butchers' Supply Company. (See Schraudner, Frederick, assignor.)						
Guss, Samuel M., Reading, Pa. Furnace-peel	629,993	Aug. 1	495	108	88	820
Gussmann, Hermann. (See Fuchs and Gussmann.)						
Gustaf, James J., Lowville, Minn. Device for finding dead-centers	623,712	Apr. 25	2774	634	87	588
Gustafson, August J., Maywood, Ill. Brace for wagon-springs	620,123	Feb. 28	2438	551	86	1340
Gustafson, Charles J. (See Gaines and Gustafson.)						
Gustafson, Charles J., Sequachee, Tenn. Steam and water valve	620,122	Feb. 28	2437	551	86	1340
Gustafson, Charles J., Sequachee, and A. P. Gaines, South Pittsburg, Tenn. Bosh-plate	627,924	June 27	3178	696, 697	87	2294
Gustafson, Crest. (See Hunter and Gustafson.)						
Gustafson, Karl G., Stockholm, Sweden. Acetylene-gas generator	627,747	June 27	2863	626	87	2230
Gustin, Eliphalet E., The Dalles, Oreg. Rolling gate	622,890	Apr. 11	1281	295, 296	87	262
Gustine, Franklin J., assignor to Standard Acetylene Gas Company, Limited, New Orleans, La. Acetylene-gas generator	621,564	Mar. 21	1902	425	86	1894
Gutenkunst, William, Milwaukee, Wis. Separating mechanism for corn-huskers	637,247	Nov. 21	1983	424, 425	89	1356
Gutridge, Samuel W., Granite, Oreg. Saw-filing machine	628,625	July 11	1273	296	88	267
Guthrie, Adam, Jr., *et al.* (See Shoffner, Munroe V., assignor.)						
Guthrie, Patrick F. (See Van Riper and Guthrie.)						
Guthrie, William A., Durham, and J. B. Underwood, Fayetteville, N. C.; said Underwood assignor to said Guthrie. Combination push-button and fire-alarm	634,940	Oct. 17	1756	417	89	382
Gutleber, Phoenix M., Liberty Corner, N. J. Fruit-gatherer	635,316	Oct. 24	2468	574	89	536
Gutmann, Julius, Berlin, Germany, assignor to Fabrik für Spezialneihmaschinen Actien-Gesellschaft Patente Julius Gutmann, Zurich, Switzerland. Hemstitch sewing-machine	620,304	Feb. 28	2756	631, 632	86	1401
Gutmann, Julius, Berlin, Germany, assignor to Firma Fabrik für Spezialnahmaschinen Actien-Gesellschaft, (Patente Julius Gutmann,) Zurich, Switzerland. Buttonhole-sewing machine	624,792	May 9	1535	350	87	1022

Alphabetical list of patentees—Continued.

Name, residence, and invention.	No.	Date.	Monthly volume. Spec.	Monthly volume. Drg.	Official Gazette. Vol.	Official Gazette. Page.
Gutmann, Julius, Berlin, Germany, assignor to Fabrik für Spezialnahmaschinen Actien-Gesellschaft, (Patente Julius Gutmann,) Zurich, Switzerland. Hemstitch embroidering-machine	627,748	June 27	2864	626	87	2230
Gutmann, Julius, Berlin, Germany, E. Faller, and K. Mischke, assignors to Firma Fabrik für Spezialnahmaschinen Actien-Gesellschaft, (Patente Julius Gutmann,) Zurich, Switzerland. Buttonhole-sewing machine	624,793	May 9	1542	351, 352	87	1024
Gutmann, Julius, Berlin, Germany, E. Faller and K. Mischke, assignors to Firma Fabrik für Spezialnahmaschinen Actien-Gesellschaft, (Patente Julius Gutmann,) Zurich, Switzerland. Buttonhole-sewing machine	627,114	June 20	1668	364, 365, 366	87	1975
Gutmann, Julius, Berlin, Germany, E. Faller and K. Mischke, assignors to Firma Fabrik für Spezialnähmaschinen, Actien-Gesellschaft, (Patente, Julius Gutmann,) Zurich, Switzerland. Buttonhole-sewing machine	634,134	Oct. 3	284	69, 70, 71	89	60
Gutmann, Julius, Berlin, Germany, E. Faller and K. Mischke, assignors o Firma Fabrik für Spezialnähmaschinen, Actien-Gesellschaft, (Patente, Julius Gutmann,) Zurich, Switzerland. Buttonhole-sewing machine	634,135	Oct. 3	289	72, 73, 74	89	61
Gutsche, Robert, Philadelphia, Pa. Gum-elastic top for stockings	618,267	Jan. 24	2696	597	86	574
Gutterman, Lion. (See Goldenberg, Komow, and Gutterman.)						
Guttmann, Oscar, London, England. Apparatus for concentrating acids	627,749	June 27	2865	626, 627	87	2231
Gutzeit, Charles X. (See Owen, Peter M., assignor.)						
Guy, Joseph A. (See Dionne and Guy.)						
Guyenot, Paul L., Aix les Bains, France. Electrical apparatus for freeing, lighting, or extinguishing gas-burners at a distance	617,958	Jan. 17	2095	470	86	449
Guyenot, Paul L., Paris, France. Electrically-operated cock and igniting device	631,162	Aug. 15	2674	604	88	1281
Guynes, Allen P., Appleby, and E. A. Flores, Center, Tex. Sash holder and fastener	629,679	July 25	3208	748	88	680
H. A. Mack Wood Working Company. (See Mack, Henry A., assignor.)						
H. C. White Company. (See White and Leffler, assignors.)						
H. & M. Southwell. (See Head, Thomas W., assignor.)						
H. W. Butterworth & Sons Company. (See Butterworth, Albert W., assignor.)						
H. W. Butterworth & Sons Company. (See Butterworth, Harry W., assignor.)						
Haag, Adam W., Reading, Pa. Scalper, grader, purifier, and bolter	626,160	May 30	4115	937, 938	87	1573
Haak, George E., assignor of one-half to G. Lerch, Reading, Pa. Fish-hook receptacle	639,030	Dec. 12	1553	356	89	2189
Haas, Harry L., assignor to Zucker & Levett & Loeb Company, New York, N. Y. Electrodepositing anode	639,811	Dec. 26	3015	694	89	2513
Haas, Louis. (See Lemieux and Haas.)						
Haas, Philip F., *et al.* (See Forsyth, Charles E., assignor.)						
Haas, Philip J., and C. D. Huber, Marengo, Iowa. Spray-nozzle	618,412	Jan. 31	2990	662	86	646
Haas, Philip M., assignor to Finished Steel Company, Youngstown, Ohio. Drawing-die	629,501	July 25	2893	673	88	619
Haas, Philip M., assignor to Finished Steel Company, Youngstown, Ohio. Drawing-die for structural shapes	629,502	July 25	2894	673	88	619
Haase, Charles, Monument Beach, Mass. Shackle	618,086	Jan. 24	2355	526	86	511
Haber, Eugen, Vienna, Austria-Hungary. Coupling	630,882	Aug. 15	2155	490	88	1181
Haber, Hermann. (See Prinz, Haber, Tomischka, and Brenner.)						
Haberer, George, *et al.* (See Penseyres, William H., assignor.)						
Haberkorn, Theodore H., Fort Wayne, Ind. Air-strainer and dirt-ejector for air-brake mechanism	621,075	Mar. 14	1014	223	86	1709
Haberkorn, Theodore H., Fort Wayne, Ind. Valve mechanism for air-brakes	621,076	Mar. 14	1016	223	86	1710
Habermann, George J., Cleveland, Ohio. Hydraulic air-pump	635,478	Oct. 24	2826	644, 645	89	607
Habermann, George J., assignor to A. E. Nesper, A. B. Conkey, and H. Hutchings, Cleveland, Ohio. Faucet	625,725	May 23	3186	724	87	1381
Habermehl, Ben, Murphysborough, Ill. Railway-frog	618,342	Jan. 24	2821	626	86	598
Habersham, William W., Gainesville, Ga. Apparatus for concentrating and amalgamating precious metals	618,006	Jan. 17	2174	485, 486	86	462
Haberstroh, Albert, Boston, Mass. Stenciling or decorative device	624,012	May 2	107	23	87	724
Haberstroh, Albert, Boston, Mass. Making stencils	628,315	July 4	702	162	88	135
Haberstroh, Albert, Boston, Mass. Stencil	631,634	Aug. 22	3540	797	88	1473
Habicht, Gustav, Berlin, Germany. Garment-fastener	627,300	June 20	1999	439	87	2042
Hacherelle, Louis E., New York, N. Y. Cloth-cutter	636,724	Nov. 7	905	201	89	1108
Hacherelle, Louis E., New York, N. Y., assignor of one-half to E. C. Seward, Montclair, N. J. Underwaist	626,422	June 6	382	89	87	1688
Hachmann, Frederick, Whitefish Bay, Wis. Check-protector	621,767	Mar. 21	2280	513	86	1969
Hachmann, Frederick, assignor of thirty-one fortieths to M. F. E. Baasen and H. L. Strohmeyer, Milwaukee, Wis. Means for bonding railway-rails	617,737	Jan. 17	1663	375	86	363
Hachmann, Frederick, Whitefish Bay, assignor to H. L. Strohmeyer, Milwaukee, Wis., and Printing Telegraph and Type Writer Company, St. Paul, Minn. Printing-telegraph	630,827	Aug. 8	2060	464, 465	88	1139
Hachmann, Frederick, Whitefish Bay, assignor to H. M. Benjamin and J. Schreck, Milwaukee, Wis. Feed-box	633,693	Sept. 26	2826	656	88	2302
Hachmeister, Henry C., *et al.* (See Ebken, John G., assignor.)						
Hack, Alfred F., Melbourne, Victoria. Fire-box for water-tube boilers	617,959	Jan. 17	2096	470	86	449
Hackel, Gustav, assignor to C. Kastner, Vienna, Austria-Hungary. Match-paste composition	625,299	May 16	2454	------	87	1213
Hackelberg, Simon, Brussels, Belgium. Composition for protecting panes of glass	632,014	Aug. 29	4226	------	88	1615
Hackeling, Herman A., New York, N. Y. Station-indicator	625,553	May 23	2903	660	87	1326
Hackenberg, Jacob A., Phœnixville, Pa. Currycomb	622,347	Apr. 4	257	59	87	49
Hacker, Fred, *et al.* (See Cole, Daniel W., assignor.)						
Hacker, William T., *et al.* (See Cole, Daniel W., assignor.)						
Hackett, Catherine, *et al.* (See Hackett, Thomas C., assignor.)						
Hackett, Charles H., and C. E. Dailey, Waterloo, Iowa. Centrifugal liquid-separator	640,130	Dec. 26	3578	824	89	2628
Hackett, Edward M., New York, N. Y. Architrave, arch, and lintel	627,849	June 27	3041	664	87	2264
Hackett, John C., St. Louis, Mo. Pole-tip	619,168	Feb. 7	711	153	86	950
Hackett, John C., St. Louis, Mo. Neck-yoke attachment	623,781	Apr. 25	2922	668	87	618
Hackett, Thomas C., Queen Anne, assignor of two-thirds to H. R. Hopkins, Wye Mills, and C. Hackett, Hillsborough, Md. Spring-key threadless bolt	633,719	Sept. 26	2871	667	88	2311
Hackley, Charles J. (See Barber and Hackley.)						
Hadaway, John B. (See Smith, Charles S., assignor.)						
Hadaway, John B., Brockton, Mass. Seam rubbing and cleaning machine	627,185	June 20	1790	393	87	2000
Hadaway, John B., Brockton, Mass. Channel-flap-laying and bottom-cleaning machine	633,836	Sept. 26	3057	710	88	2349
Hadaway, John B., Brockton, Mass. Stitch separating and indenting machine	635,015	Oct. 17	1895	451	89	410
Hadaway, John B., Brockton, Mass. Lip turning and slitting machine	635,772	Oct. 31	3359	777	89	723
Hadaway, John B., Brockton, Mass. Lip-turning machine	638,010	Nov. 28	3780	795	89	1772
Hadaway, William S., Jr., New York, N. Y. Leuring-iron	620,305	Feb. 28	2759	632	86	1402
Hadaway, William S., Jr., New York, N. Y. Electrically-heated tool	620,306	Feb. 28	2760	632	86	1402
Hadaway, William S., Jr., New York, N. Y. Forming magnesia insulation upon conductors	620,307	Feb. 28	2762	632	86	1403

Alphabetical list of patentees—Continued.

Name, residence, and invention.	No.	Date.	Monthly volume.		Official Gazette.	
			Spec.	Dr'g.	Vol.	Page.
Hadaway, William S., Jr., New York, N. Y. Incandescent arc-light	620,308	Feb. 28	2764	633	86	1403
Hadaway, William S., Jr., New York, N. Y. Electric fuse	620,309	Feb. 28	2766	633	86	1403
Hadcock, Albert G., and S. M. Murray, assignors to W. G. Armstrong, Whitworth & Company, Limited, Newcastle-upon-Tyne, England. Breech mechanism for guns	634,238	Oct. 3	493	124, 125, 126, 127	89	100
Haddad, Selim S., Cairo, Egypt. Types for type-writers or printing-presses	637,109	Nov. 14	1682	365	89	1284
Hadden, James M., Poughkeepsie, N. Y. Gas apparatus	628,000	July 4	81	16	88	17
Haddock, Worcester, assignor of three-fifths to H. E. Blair, Cincinnati, Ohio. Rotary engine	625,950	May 30	3633	826, 827	87	1485
Haddox, George W., assignor of two-thirds to H. H. Baker and H. Shockey, Winchester, Va. Cabinet for displaying ribbons, laces, &c	637,203	Nov. 14	1893	407	89	1324
Hadfield, Henry, Stockport, assignor of two-thirds to J. J. Sumner and W. Hadfield, Furness Vale, England. Bleaching	635,248	Oct. 17	2339	546	89	495
Hadfield, Joseph, New York, N. Y., assignor to A. M. and L. R. Fay, East Orange, N. J. Elevator	623,901	Apr. 25	3153	726, 727	87	662
Hadfield, Robert A., Sheffield, England. Lining for ladles, crucibles, &c	620,310	Feb. 28	2768	------	86	1403
Hadfield, Willie, *et al.* (See Hadfield, Henry, assignor.)						
Hadley, Albert E., Mount Vernon, S. D. Can-opener	619,039	Feb. 7	462	97	86	900
Hadley, Joshua A., and W. J. Evans, Brazil, Ind.; said Hadley assignor to said Evans. Toy pistol	638,964	Dec. 12	1432	328	89	2166
Hadley, Walter B. (See Rickmeier and Hadley.)						
Haebler, Theodore. (See Sprickerhoff, George, assignor.)						
Haebler, Theodore. (See Sprickerhoff, George D. C., assignor.)						
Haeffner, Jacob A. (See Voight and Haeffner.)						
Haefner, Carl, Chicago, Ill. Apparatus for filtering beer, &c	628,534	July 11	1103	257	88	232
Haehnel, Fréderic, assignor to Compagnie Brabo Société Anonyme, Antwerp, Belgium. Cigar-making machine	636,981	Nov. 14	1446	311, 312	89	1239
Haenichen, Adolph, Paterson, N. J. Rotary ash-sifter	634,263	Oct. 3	553	137	89	111
Haenichen, Adolph, Paterson, N. J. Self-adjusting spindle for belt-spinners	638,509	Dec. 5	615	127	89	1984
Haerst, Pièrre, Chicago, Ill. Street-sweeper	625,163	May 16	2205	500, 501	87	1165
Haeseler, Francis J., Washington, D. C. Rotary engine	633,449	Sept. 19	2361	556, 557	88	2197
Haeseler, Francis J., U. S. Navy. Breech-loading ordnance	637,110	Nov. 14	1689	365, 366, 367	89	1284
Haeske, Charles, South Bend, Ind. Street-sprinkler	623,600	Apr. 25	2589	592	87	554
Haeske, Charles M., South Bend, Ind. Wagon	622,143	Mar. 28	2987	674, 675	86	2122
Haferkamp, Aloys, assignor to Duisburger Maschinenbau-Actien-Gesellschaft, vormals Bechem & Keetman, Duisburg, Germany. Reversing-valve for engines	637,111	Nov. 14	1700	367	89	1287
Haferkorn, Carl, Weissenfels, Germany. Hinge	627,730	June 27	2831	620	87	2222
Hafertepen, Edwin B., assignor to J. Hafertepen, Dayton, Ky. Ventilated shoe	625,393	May 23	2622	596	87	1271
Hafertepen, Jeanett. (See Hafertepen, Edwin B., assignor.)						
Haffner, Frederick, *et al.* (See Melzer, Joseph, assignor.)						
Haffner, George E., *et al.* (See Desmond, John, assignor.)						
Hafgar, Magnus J., Chicago, Ill. Type-writer desk	631,300	Aug. 22	2926	663	88	1349
Hafner, John A., Pittsburg, Pa. Motor mechanism	620,916	Mar. 14	703	154, 155	86	1651
Hafner, Joseph. (See Leu, Leon, assignor.)						
Hagans, Christian, Erfurt, Germany. Locomotive with coupled bogie	638,113	Nov. 28	3979	837, 838	89	1810
Hagans, William M. (See Frazier, Wheaton, and Hagans.)						
Hagberg, Edwin J. (See Walker, Frank I., assignor.)						
Hagberg, Herman, Brainerd, Minn. Violin	627,186	June 20	1793	393	87	2000
Hage, Joseph. (See Gosemann, Christopher, assignor.)						
Hagedorn, John H., *et al.* (See Deutsch, Sigmund, assignor.)						
Hagedorn, John J., Philadelphia, Pa. Shirt	636,523	Nov. 7	517	114	89	1025
Hagedorn, Joseph H., *et al.* (See Deutsch, Sigmund, assignor.)						
Hagen, Arthur T., and D. M. Cooper, Rochester, N. Y. Starching-machine	625,973	May 30	3686	837, 838	87	1495
Hagen, Ferdinand J. (See Weiss and Hagen.)						
Hagen, Ferdinand J., assignor of one-half to B. H. Homan, New York, N. Y. Cigar-branding machine	624,326	May 2	704	156	87	835
Hagen, Ferdinand J., New York, N. Y., assignor of one-half to B. H. Homan. Wave-power	625,444	May 23	2716	618	87	1288
Hagen, Ferdinand J., assignor of one-half to B. H. Homan, New York, N. Y. Hydraulic motor	627,925	June 27	3182	697	87	2295
Hager, John E., Washington, D. C. Sectional pencil	637,384	Nov. 21	2251	484	89	1411
Hager, Louis P., Waltham, Mass., assignor to Bay State Electric Heat and Light Company, Jersey City, N. J. Apparatus for heating and agitating air	622,424	Apr. 4	399	92	87	74
Hager, Otto F. (See Engel, George, assignor.)						
Hagerty, John C., Santa Cruz, Cal. Bark cutting and reducing machine	633,646	Sept. 26	2735	637	88	2283
Hagerty, Thomas F., San Francisco, Cal., assignor to American Plaiting Machine Company, New York, N. Y. Plaiting-machine	624,013	May 2	108	23	87	724
Hagerty, Thomas F., San Francisco, Cal., assignor to American Plaiting Machine Company, New York, N. Y. Plaiting-machine	624,014	May 2	110	23, 24	87	724
Haggas, Fred, Sr., Providence, R. I. Stop-motion for spinning and twisting machines	636,404	Nov. 7	296	67	89	980
Hagglund, John, Hurley, Wis. Harrow	623,601	Apr. 25	2592	592	87	555
Haglund, Julius W., Stockholm, Sweden. Lock	626,376	June 6	313	72	87	1674
Hagstrom, John, assignor of one-fourth to T. S. Stephens, Freesoil, Mich. Bag-holder	637,248	Nov. 21	1984	425	89	1356
Hague, James B., Horseheads, N. Y. Electrical machine	635,681	Oct. 24	3182	732, 733	89	675
Hagy, John M., Philadelphia, Pa. Packing for journals, &c	631,502	Aug. 22	3299	750	88	1423
Hahn, Charles H., New Haven, Conn. Slicer	639,850	Dec. 26	3078	707	89	2525
Hahn, Herman, San Francisco, assignor to C. S. Girvan, Oakland, Cal. Coin-controlled mechanism	636,258	Nov. 7	62	13, 14	89	935
Hahn, John, Colegrove, Cal. Sickle-bar	631,009	Aug. 15	2392	544	88	1226
Hahn, William F. (See Pfeiffer and Hahn.)						
Hahne, Henry, *et al.* (See Martz, Benjamin F., assignor.)						
Haid, Herbert, Billings, Mont. Potato-planter	635,479	Oct. 24	2828	645	89	607
Haider, Joseph, Munich, Germany. Chain-gearing	616,919	Jan. 3	101	22	86	22
Haigh, Henry B., *et al.* (See Howe, William R., assignor.)						
Haigh, Henry B., New York, N. Y. Elastic heel for shoes	636,796	Nov. 14	1088	233	89	1168
Haigh, Henry B., New York, N. Y. Tread for wheels, stairs, steps, or the like	637,866	Nov. 28	3514	734	89	1720

Alphabetical list of patentees—Continued.

Name, residence, and invention.	No.	Date.	Monthly volume.		Official Gazette.	
			Spec.	Dr'g.	Vol.	Page.
Haigh, William C., Chorlton-cum-Hardy, England. Game	626,995	June 13	1457	320	87	1915
Haight, Harry D., and L. L. Cossitt, Chicago, Ill. Magazine-camera	618,459	Jan. 31	3063	678	86	659
Hail, Edward L. and G., Providence, R. I. Signal system	620,547	Feb. 28	3176	728	86	1481
Hail, George. (See Hail, Edward L. and G.)						
Hailer, John G., Philadelphia, Pa. Dental handpiece	623,469	Apr. 18	2338	537	87	489
Haiman, Elias, and C. Bishop, assignors to Empire Plow Company, Cleveland, Ohio. Wheel-cultivator	622,348	Apr. 4	259	59	87	49
Hain, Charles H., Warsaw, N. Y. Feed-manger	629,106	July 18	2167	503	88	460
Hain, Milton I., Wernersville, Pa. Time damper mechanism for furnaces	632,939	Sept. 12	1386	320	88	1994
Haine, Harold, Eastbourne, England. Ticket-holder for application to blocks for textile piece goods	629,560	July 25	2994	699	88	638
Haines, Byron W., and W. D. Creighton, San Francisco, Cal. Elevator-cage escape	627,257	June 20	1923	423	87	2026
Haines, Jonathan W., New York, N. Y. Hair-picker	630,606	Aug. 8	1684	379	88	1065
Haines, Samuel A., assignor of one-half to T. H. Campbell, Garrett, Tex. Horse-detacher	629,962	Aug. 1	440	94	88	809
Haines, William D., Delaware, N. J. Marking, covering, and furrowing machine	618,413	Jan. 31	2993	663	86	646
Hains, Peter C., Jr., and C. R. Weaver, Baltimore, Md.; said Weaver assignor to said Hains. Making concrete	633,312	Sept. 19	2119	497	88	2151
Hains, Peter C., Jr., and C. R. Weaver, Baltimore, Md.; said Weaver assignor to said Hains. Apparatus for making concrete	633,313	Sept. 19	2121	497	88	2151
Hainzl, Ludwig, Eugertsham, Germany. Draft-regulating device	627,614	June 27	2631	578	87	2183
Haire, Robert, Newport, R. I. Filter	631,301	Aug. 22	2927	664	88	1349
Haiss, George, New York, N. Y. Elevator and conveyer	618,343	Jan. 24	2832	627	86	599
Hakins, George B., Norwood, N. Y. Dental disk-holder	624,015	May 2	112	24	87	724
Halaburt, Louis A., assignor to Chicago Packing Box Company, Chicago, Ill. Glue-applying machine	619,077	Feb. 7	532	112	86	914
Halbert, William G., Westville, Ill. Dumping-cage	638,114	Nov. 28	3982	838	89	1811
Halcom, Jarret C. (See Morrow and Halcom.)						
Haldeman, James S., assignor of one-half to J. H. Combs, Cameron, Mo. Combined wheel rim and tire	627,458	June 20	2323	512	87	2105
Halder, George, Milwaukee, Wis. Game apparatus	621,659	Mar. 21	2061	461	86	1926
Hale, Bernard O., assignor to Farrel Foundry and Machine Company, Ansonia, Conn. Machine for making hose	625,951	May 30	3640	827, 828	87	1486
Hale, Bernard O., Derby, assignor, by mesne assignments, to Antelope Lining Company, Shelton, Conn. Machine for softening paper	633,241	Sept. 19	1971	462	88	2122
Hale, George C., *et al.* (See Whalen and Warner, assignors.)						
Hale, George C., Kansas City, Mo. Automatic fire-alarm system	630,345	Aug. 8	1168	256, 257	88	969
Hale, George S., Bridgewater, Va. Variable-speed frictional gearing	617,738	Jan. 17	1665	375	86	364
Hale, Henry S., Philadelphia, Pa. Car-seat	626,831	June 13	1127	252	87	1849
Hale, James W., Newburyport, Mass. Water-still	634,556	Oct. 10	1101	261, 262	89	237
Hale, Lovett B., Bridgeport, assignor of one-half to H. E. Hubbard, Meriden, Conn. Dish-washer	618,663	Jan. 31	3427	766	86	731
Hale, Monte, and C. Tudor, Terre Haute, Ind. Collar or cuff fastener	635,850	Oct. 31	3520	809	89	754
Hale, Orlando C., Woodlawn, Ohio. Paper-cutter	639,231	Dec. 19	1921	442	89	2274
Hales, Henry W., Ridgewood, N. J., assignor to W. F. Carlton, Rochester, N. Y. Flash-lamp	620,583	Mar. 7	56	11	86	1513
Haley, Andrew M. (See Haley, Joseph A. and A. M.)						
Haley, John W. (See Greene and Haley.)						
Haley, Jonas. (See Andrews and Haley.)						
Haley, Jonathan, assignor to C. W. Shoemaker, Bridgeton, N. J. Apparatus for manufacturing window-glass	624,480	May 9	982	218	87	913
Haley, Jonathan, assignor to C. W. Shoemaker, Bridgeton, N. J. Apparatus for manufacturing window-glass	624,481	May 9	983	219	87	913
Haley, Joseph A. and A. M., Sioux City, Iowa. Machine for trimming fat from skins	638,238	Dec. 5	62	15	89	1878
Halifax, John B., Chicago, Ill. Seat-post cluster for velocipedes	637,386	Nov. 21	2253	485	89	1411
Halifax, John B., Chicago, Ill., assignor to Geo. L. Thompson Manufacturing Company, of Illinois. Crank-bracket for velocipedes	637,385	Nov. 21	2252	484	89	1411
Halifax, Joseph N., assignor to Geo L. Thompson Manufacturing Company, Chicago, Ill. Machine for making joints for tubular articles	616,920	Jan. 3	102	23, 24	86	22
Halifax, Joseph N., assignor to Geo. L. Thompson Manufacturing Company, Chicago, Ill. Nurling-machine	625,726	May 23	3188	724, 725	87	1382
Halket, James P., and J. Kennedy, London, England. Safety-gear for lifts	629,033	July 18	2025	471, 472	88	432
Halkyard, William, North Kingston, R. I. Machine for setting lacing-hooks	620,844	Mar. 7	575	124, 125	86	1615
Hall, Abe, *et al.* (See Froberg, Johan R., assignor.)						
Hall, Albert E., Kearney, Nebr. Hame and trace connector	628,221	July 4	483	116	88	97
Hall, Agustien F. and E. F., Philadelphia, Pa. Fastener for gloves	628,660	July 11	1365	318	88	283
Hall, Charles A., assignor of one-third to F A. Pettee, Denver, Colo. Bicycle-lock	626,656	June 6	791	180	87	1768
Hall, Charles F., Skaneateles, N. Y. Apparatus for refitting disk valves	637,249	Nov. 21	1985	425	89	1357
Hall, Charles J., *et al.* (See Tague, Joseph M., assignor.)						
Hall, Chester P., assignor of one-half to H. B. Prosser and O. E. Poole, Chicago, Ill. Automatic compound feeder for steam-boilers	637,250	Nov. 21	1986	426	89	1357
Hall, Clifford P., Racine, assignor to C. H. Seaman and L. M. Roberts, Milwaukee, Wis. Bicycle	627,187	June 20	1794	393	87	2000
Hall, Clinton S. (See Lippincott and Hall.)						
Hall, Cofran I., assignor to J. J. Mahony, San Francisco, Cal. Elevator	636,202	Oct. 31	4211	969	89	892
Hall, Dean S., Cabot, Vt. Sleigh	623,244	Apr. 18	1936	444	87	406
Hall, Edwin F. (See Hall, Agustien F. and E. F.)						
Hall, Francis G., Jr., and I. E. Burdick, Dansville, N. Y. Electric-arc lamp	629,291	July 18	2475	577	88	516
Hall, Frank A., Montclair, N. J., and E. F. Tilley, New York, N. Y. Bedstead-fastening	625,164	May 16	2207	501	87	1166
Hall, Frank R., Boston, Mass. Photographic-plate washer	617,335	Jan. 10	918	211, 212	86	198
Hall, Garnett U., Abingdon, Ill. Animal-trap	630,346	Aug. 8	1172	257	88	970
Hall, George F., Newark, N. J., assignor to Hall's Automatic Whistle Company, of New Jersey. Bicycle-alarm	617,013	Jan. 3	288	64	86	58
Hall, Gideon E., Stratford, Conn. Coffee or tea pot	636,731	Nov. 7	952	205	89	1125
Hall, Henry C., Cambridge, Mass. Tourist's parcel-carrier	637,733	Nov. 21	3247	676	89	1646
Hall, Henry L., Mexia, Tex. Index	639,031	Dec. 12	1554	357	89	2189
Hall, Hubert J. (See Payton, James Y., assignor.)						
Hall, Hugh M. (See Davis and Hall.)						
Hall, Isaac A. (See Nuver, Joseph, assignor.)						
Hall, James W., Coffeen, Ill. Hoisting-cage for mines	629,854	Aug. 1	182	42, 43	88	756

Alphabetical list of patentees—Continued.

Name, residence, and invention.	No.	Date.	Monthly volume. Spec.	Monthly volume. Dr'g.	Official Gazette. Vol.	Official Gazette. Page.
Hall, John B. (See Buchwalder, Adolf, assignor.)						
Hall, John B. (See Travaglini, Antonio, assignor.)						
Hall, John H., Patrick, W. Va. Pressure-regulating valve	628,709	July 11	1445	336	88	301
Hall, John L. (See Cooper, Thomas O., assignor.)						
Hall, John L., Brookville, Pa. Program alarm-clock	637,387	Nov. 21	2254	485	89	1411
Hall, John W., London, England. Power-transmission apparatus	626,996	June 13	1459	320, 321, 322	87	1915
Hall, Joseph, Leeds, England. Hide, skin, or leather machinery	618,268	Jan. 24	2697	597	86	574
Hall, Joseph, Leeds, England. Machine for treating hides, skins, or leather	618,269	Jan. 24	2698	598, 599	86	575
Hall, Joseph, Leeds, England. Machine for softening leather	618,540	Jan. 31	3213	712, 713	86	688
Hall, Joseph, Leeds, England. Machine for treating hides, skins, or leather	618,869	Feb. 7	98	20	86	823
Hall, Joseph, Leeds, England. Leather-splitting machine	619,477	Feb. 14	1249	285, 286, 287	86	1073
Hall, Joseph, Leeds, England. Machine for shaving hides or skins	621,077	Mar. 14	1020	223, 224	86	1710
Hall, Julian D., Bostonia, Cal. Step-ladder	639,380	Dec. 19	2215	512	89	2335
Hall, Julius C., Wallingford, Conn. Mincing-machine	637,734	Nov. 21	3248	677	89	1646
Hall, Lewis A., *et al.* (See Leaver, James M., assignor.)						
Hall, Lincoln C., Burlington, Iowa. Combination-ladder	623,540	Apr. 25	2478	570	87	534
Hall, Major, assignor of two-thirds to J. M. Herbert and R. B. Plowman, Boise, Idaho. Under-reamer	634,941	Oct. 17	1758	418	89	382
Hall, Ralph K., Woonsocket, R. I. Tobacco-pipe	632,565	Sept. 5	657	152	88	1836
Hall, Robert A., assignor to E. A. Griffith, Baltimore, Md. Button and button-fastener	618,868	Feb. 7	97	20	86	823
Hall, Selden H., Buffalo, N. Y. Electric block-signal system	634,816	Oct. 10	1541	362, 363	89	322
Hall, Thaddeus M., Bonham, Tex. Air-brake hose-coupling	619,169	Feb. 7	712	153	86	950
Hall, Thomas I., Coleman, Tex. Animal-trap	619,566	Feb. 14	1398	321	86	1101
Hall, William A., Bellows Falls, Vt. Sizing	623,541	Apr. 25	2481	------	87	534
Hall, William A., Bellows Falls, Vt. Enameling compound and producing same	626,537	June 6	582	------	87	1727
Hall, William A., Bellows Falls, Vt. Producing casein	632,408	Sept. 5	358	------	88	1777
Hall, William C., Cayce, Ky. Trace-hook	624,647	May 9	1280	286	87	970
Hall, William E. (See Middlekauff, Ellsworth D., assignor.)						
Hall, William H., assignor to A. T. Benson and H. J. Cassaday, Chicago, Ill. Advertising-cabinet	625,105	May 16	2118	481	87	1150
Hall, William R., Chicago, Ill. Ink-well and device for opening or closing same	624,016	May 2	114	24	87	725
Hallas, James. (See Fredman and Hallas.)						
Hallberg, Gustaf, New York, N. Y. Mechanical movement	631,635	Aug. 22	3541	797, 798	88	1473
Halle, Hiram J., Cleveland, Ohio. Type-writing-machine support	621,660	Mar. 21	2064	461, 462, 463	86	1926
Hallenbeck, George M. (See Cook, Charles W., assignor.)						
Halleran, Daniel C., *et al.* (See Durnell, Cecil M., assignor.)						
Hallet, William B., *et al.* (See Ewbank, Ernest L., assignor.)						
Hallett, Henry W., *et al.* (See Fuller, Willard M., assignor.)						
Hallett, William R., assignor to himself and F. Dirksmeyer, Hamburg, Ill. Extension-table	632,111	Aug. 29	4418	992	88	1653
Halley, George T., *et al.* (See Adams, William F., assignor.)						
Halliday, Charles O., Detroit, Mich. Means for fastening furniture to floors	621,337	Mar. 21	1493	331	86	1817
Hallidie, Andrew S., San Francisco, Cal. Conveyer attachment for ropeways	624,648	May 9	1281	286	87	970
Hallidie, Andrew S., San Francisco, Cal. Machine for manufacturing ropes or cables	627,258	June 20	1924	423, 424	87	2027
Halligan, James C., Brisbane, Queensland. Lithographic press	634,616	Oct. 10	1199	284	89	255
Halligan, James C., assignor of one-half to J. Ferguson, Brisbane, Queensland. Lithographic machine	633,958	Sept. 26	3276	763	88	2392
Hallin, William E., assignor of one-half to A. B. Thoen, St. Paul, Minn. Convertible turban and vizor cap	636,259	Nov. 7	63	14	89	935
Hallock, Lee T., Orange Valley, N. J. Hat-packing ring	625,727	May 23	3192	725	87	1382
Halloran, Patrick J., Oil City, Pa. Reversing-link for engines	622,425	Apr. 4	400	92	87	75
Hallot, Paul. (See Rémondy and Hallot.)						
Hallowell, William S., Wyncote, Pa. Boot, shoe, or slipper holder	632,409	Sept. 5	359	81	88	1777
Hall's Automatic Whistle Company. (See Hall, George F., assignor.)						
Halm, Henry J., Peru, Ill. Cooking utensil	624,206	May 2	481	103	87	791
Halm, Henry J., Peru, Ill. Attachment for cooking-stoves	638,924	Dec. 12	1366	311, 312	89	2152
Halm, Julius W. (See Willman, Joseph, assignor.)						
Halsey, Edward S., Chicago, Ill. Electric meter	626,832	June 13	1129	252, 253	87	1850
Halsey, Edward S., Chicago, Ill. System of electric metering	626,833	June 13	1133	253	87	1851
Halsey, Edward S., Evanston, Ill. Electric meter	638,011	Nov. 28	3784	795	89	1773
Halsey, Francis A., San Rafael, Cal., assignor to Economic Smokeless Powder Company, of Illinois. Gunpowder	625,499	May 23	2811	------	87	1308
Halsey, Louis M., New York, N. Y. Trolley-controller	625,554	May 23	2906	660	87	1327
Halsey, William S., assignor of one-half to Union Boiler Tube Cleaner Company, Pittsburg, Pa. Fluid-pressure motor	633,192	Sept. 19	1866	439, 440	88	2101
Halsey, William S., assignor to Pneumatic Crane Company, Pittsburg, Pa. Means for transmitting fluid under pressure	637,333	Nov. 21	2151	464	89	1390
Halski, Valentin, Lemburg, Austria-Hungary. Battery	627,641	June 27	2681	588	87	2193
Halstead, Charles, New York, N. Y. Culinary vessel	634,557	Oct. 10	1107	262	89	238
Halstenbach, Wilhelm, Barmen, Germany. Braces	622,349	Apr. 4	260	60	87	49
Halter, Henry, Oakwood, Wis. Potato-planter	626,229	June 6	24	5, 6	87	1619
Haltom, Frank S., Sumner, Ill. Window-fixture	624,482	May 9	984	219	87	913
Halvorsen, Christine M., Los Angeles, Cal. Combined dish-drainer and colander	623,366	Apr. 18	2166	498	87	451
Halvorson, Erick O., assignor to F. P. Carnac-Marquis, St. Paul, Minn. Aerated-water fountain	636,226	Oct. 31	4262	979	89	901
Ham, Albert W., Lansingburg, assignor to Trojan Button Fastener Company, Incorporated, Troy, N. Y. Sand-box for cars	621,815	Mar. 28	2376	531	86	2002
Ham, Charles T., assignor to C. T. Ham Manufacturing Company, Rochester, N. Y. Tubular lantern	628,461	July 11	954	223	88	203
Ham, Edward E., assignor of one-fifth to I. F. Farrington, New York, N. Y. Printing device	636,524	Nov. 7	518	114	89	1026
Ham, Edwin W., assignor to Plummer, Ham & Richardson, Worcester, Mass. Telephone system	634,575	Oct. 10	1131	269	89	243

Alphabetical list of patentees—Continued.

Name, residence, and invention.	No.	Date.	Monthly volume.		Official Gazette.	
			Spec.	Dr'g.	Vol.	Page.
Ham, Henry H., assignor of two-thirds to T. W. Priest, Portsmouth, N. H., and S. H. Pillsbury, Kittery, Me. Dusting-brush	622,621	Apr. 4	781	181	87	149
Ham, John C. (See Condon and Ham.)						
Ham, Lemuel M., Boston, Mass. Metal-cutting machine	623,013	Apr. 11	1495	346	87	305
Ham, Lewis J., assignor of one-half to D. Howard, Carlisle, Ky. Harness attachment	627,188	June 20	1794	394	87	2001
Hamacek, Adolph, Sturgeon Bay, Wis. Electric-arc lamp	634,085	Oct. 3	176	45	89	39
Hamachek, Frank, Kewaunee, Wis. Crushing or grinding mill	616,921	Jan. 3	109	24,25	86	23
Hamalian, George H., Paterson, N. J., assignor to Schaum & Uhlinger, Philadelphia, Pa. Shuttle	619,170	Feb. 7	713	154	86	951
Hamalian, George H., Paterson, N. J., assignor of one-third to H. S. Jenanyan, Philadelphia, Pa. Window shutter or blind	629,680	July 25	3209	748	88	680
Hamann, Hannah C., Omaha, Nebr. Darning apparatus	627,412	June 20	2243	494	87	2090
Hamann, Richard W., assignor of two-fifths to R. Williams and D. Boone, St. Louis, Mo. Smoke-consumer	619,171	Feb. 7	715	154	86	951
Hamblin, Stephen M., Central Falls, assignor to New Shuttle Company, Pawtucket, R. I. Self-threading loom-shuttle	630,051	Aug. 1	610	133	88	844
Hamblin, Stephen M., Central Falls, assignor to New Shuttle Company, Pawtucket, R. I. Loom-shuttle	639,896	Dec. 26	3154	725	89	2539
Hamblin, Stephen M., and W. H. Goldsmith, Central Falls, R. I. Loom-shuttle	636,227	Oct. 31	4263	979	89	901
Hamel, Nathan S. V., *et al.* (See Merrill, Frank W., assignor.)						
Hamel, Richard B., Bellport, N. Y. Fish-car	636,381	Nov. 7	264	58	89	974
Hamel, Richard B., Bellport, N. Y. Decking for boats	636,382	Nov. 7	265	59	89	974
Hamelback, Jacob A., Zanesville, Ohio. Swinging gate	638,115	Nov. 28	3983	838	89	1811
Hamer, Daniel A., Lewistown, Ohio. Whip-holder	621,409	Mar. 21	1607	356	86	1838
Hamer, Harry R., North Adams, Mass. Vehicle-axle nut	639,032	Dec. 12	1555	357	89	2189
Hamill, Robert J. W., assignor of three-fourths to G. W. Evans, Baltimore, Md. Lock-cover for milk-cans	623,957	Apr. 25	3252	748	87	680
Hamilton, Arthur L., Kearney, Nebr. Wrench	637,251	Nov. 21	1988	426	89	1357
Hamilton, Cassius M., and A. S. Leckie, assignors of one-third to A. C. Thomas, Chicago, Ill. Pneumatic-carrier system	620,649	Mar. 7	199	41,42	86	15 0
Hamilton, Charles A. (See Foster, Robert F., assignor.)						
Hamilton, Charles S., New Haven, Conn. Portable centerboard for boats	620,311	Feb. 28	2769	{633 / 634}	86	1404
Hamilton, Charles S., New Haven, Conn. Rudder-hinge	628,710	July 11	1445	336	88	301
Hamilton, Charles W., Omaha, Nebr. Chainless gearing for bicycles	618,870	Feb. 7	99	21	86	824
Hamilton, Clarence J., assignor to Daisy Manufacturing Company, Plymouth, Mass. Air-gun	631,010	Aug. 15	2394	544	88	1227
Hamilton, Ernest F., and C. Gess, St. Joseph, Mich. Transferring device	625,259	May 16	2381	540	87	1199
Hamilton, Fred, Owego, N. Y. Optometer	619,886	Feb. 21	2023	459	86	1247
Hamilton, George W., Globe, Ariz. Ter. Car-coupling	623,542	Apr. 25	2482	570	87	534
Hamilton, Harry F., Boston, Mass. Means for securing tooth-crowns to roots	635,773	Oct. 31	3362	777	89	723
Hamilton, Henry J., Toronto, Canada. Step for stairways	632,715	Sept. 12	971	225	88	1913
Hamilton, Hugh D., New York, N. Y. Voltaic battery	619,885	Feb. 21	2020	459	86	1247
Hamilton, James, *et al.* (See McLean, Robert B., assignor.)						
Hamilton, James W. C., Liverpool, England, assignor of two-thirds to J. A. Linley, Sydney, New South Wales. Making meat extracts	636,525	Nov. 7	519	------	89	1026
Hamilton, John B. (See Cliff and Wardlaw, assignors.)						
Hamilton, John B., Tenby, England. Drain or sewer pipe joint	634,136	Oct. 3	293	74,75	89	62
Hamilton, John D. Q., Lexington, Ky. Trap for water-pipes	635,383	Oct. 24	2615	604	89	564
Hamilton, John H., Sandiacre, England. Gas-vapor motor-engine	621,525	Mar. 21	1829	407	86	1819
Hamilton, John H., Sandiacre, England. Gas motor-engine	621,526	Mar. 21	1831	407	86	1880
Hamilton, John M., Davis City, Iowa. Traction-engine	620,030	Feb. 21	2266	{513 / 514}	86	1293
Hamilton, Leander P., and H. K. Mourning, Altamont, Kans. Window-shade exhibitor and cabinet	623,543	Apr. 25	2484	571	87	534
Hamilton, Miles, assignor of one-half to J. H. Crouse, Auburn, N. Y. Bicycle-rack	623,245	Apr. 18	1938	444	87	406
Hamilton, Robert W., San Diego, Cal. Temporary account-book	636,662	Nov. 7	786	173	89	1081
Hamilton, Washington, Sheridan, Ill. Tire-tightener	627,413	June 20	2245	495	87	2090
Hamilton, Weston G., Tona, Tex. Cotton-sack carrier	618,087	Jan. 24	2356	526	86	511
Hamilton, William, Sheridan, Ill. Spring-horseshoe	639,972	Dec. 26	3298	755	89	2570
Hamilton, William, assignor to National Casket Company, Allegheny, Pa. Face-plate for burial-caskets	619,567	Feb. 14	1399	321	86	1102
Hamilton, William H. W., and A. M. Mahany, White Hills, Ariz. Ter. Automatic ship's pump and wave-motor	624,483	May 9	986	219	87	914
Hamlin, Edward F., assignor to E. T. Trefethen, Boston, Mass. Lifting-jack	626,205	May 30	4200	954	87	1580
Hamlin, George, Reefton, New Zealand. Folding seat for sewing-machines	634,889	Oct. 17	1681	397	89	367
Hamlin, Harry, *et al.* (See Gaunt, Thomas, assignor.)						
Hamlin, William, *et al.* (See Gaunt, Thomas, assignor.)						
Hamm, William S., Chicago, Ill. Lamp-burner	624,794	May 9	1545	352	87	1025
Hamm, William S., Chicago, Ill. Lantern	636,137	Oct. 31	4100	938	89	869
Hamm, William S., Chicago, Ill., assignor to Adams & Westlake Company, of Illinois. Signal-lantern	618,344	Jan. 24	2824	627	86	599
Hammacher, Peter, Milwaukee, Wis. Alarm-scale	619,478	Feb. 14	1252	287	86	1073
Hamman, Daniel. (See Hamman, William J. and D.)						
Hamman, Daniel, Bement, Ill. Wagon-box fastener	635,722	Oct. 24	3246	748	89	689
Hamman, William J. and D., Bement, Ill. Wagon-box fastener	638,239	Dec. 5	64	15	89	1879
Hammelmann, Charles, Buffalo, N. Y. Portable forge	633,314	Sept. 19	2123	498	88	2151
Hammer, Henry, Mountain Lake, Minn. Trace-buckle	636,334	Nov. 7	176	39	89	956
Hammerstein, Arthur. (See Hammerstein, Oscar, assignor.)						
Hammerstein-Loxten, Alexander von, Abentheuer, Germany. Flooring	622,426	Apr. 4	401	93	87	75
Hammerstein, Oscar, assignor to A. Hammerstein, New York, N. Y. Necktie	623,958	Apr. 25	3254	749	87	681
Hammett, James W., Eureka, W. Va. Filtering-intake	623,782	Apr. 25	2922	668	87	618
Hammett, James W., Eureka, W. Va. Combined water purifier and elevator	635,682	Oct. 24	3184	733	89	676
Hammick, Luther. (See Adams, Wilson S., assignor.)						
Hammon, Victor O., Philadelphia, Pa., assignor to International Incandescent Light Company, of West Virginia. Street lamp or lantern	629,353	July 25	2609	606	88	561
Hammond, Aaron, Harris, Mo. Fly-trap	635,732	Oct. 24	3289	759	89	695
Hammond, Charles D. (See Hauerwas, Edgar A., assignor.)						
Hammond, Frank L., Biddeford, Me. Lease-rod	630,347	Aug. 8	1173	257	88	970
Hammond, Isaac B., Portland, Oreg. Engine	626,022	May 30	3830	869	87	1522
Hammond, James M., Lansing, Mich. Cattle-stall	624,795	May 9	1547	352	87	1025
Hammond, Myron B. (See Taylor and Hammond.)						
Hammond, Robert, assignor of one-half to W. Howe, Lake George, N. Y. Music-leaf turner	626,692	June 13	870	197	87	1802
Hammond, Robert A., assignor of one-half to G. T. McLaughlin, Sandwich, Mass. Spring-shackle and oil-distributer	624,327	May 2	706	157	87	836

Alphabetical list of patentees—Continued.

Name, residence, and invention.	No.	Date.	Monthly volume. Spec.	Monthly volume. Dr'g.	Official Gazette. Vol.	Official Gazette. Page.
Hammond Type Writer Company. (See Pratt, John, assignor.)						
Hammond, William H., Wakefield, England. Apparatus for testing drains, &c	620,917	Mar. 14	706	155	86	1652
Hampel, Heinrich, Neusiedl, and V. Zampis, Vienna, Austria-Hungary. Preparation of rosin-soap	621,777	Mar. 21	2302		86	1973
Hampson, Frank G., Shoreham, England. Change driving-gear	624,017	May 2	115	25, 26	87	725
Hampson, Frank G., Shoreham, England. Tube-expanding device	629,354	July 25	2612	606, 607	88	562
Hampson, William, London, England. Apparatus for separating mixed gases by refrigeration, especially applicable to separation of oxygen from air	620,312	Feb. 28	2772	634	86	1404
Hampton, Albert C. (See Dean, George O., assignor.)						
Hampton, John A., West Bromwich, and H. Keates, Moseley, England. Seamless-tube-rolling mill	636,335	Nov. 7	177	39	89	957
Hampton Manufacturing Company. (See Sayre and Little, assignors.)						
Hampton, Marshel, Bowers, Ind. Farm-sled	625,500	May 23	2811	640	87	1308
Hampton, Oliver H., Williamsburg, Ind. Acetylene-gas generator	625,260	May 16	2382	540	87	1199
Hampton, Thomas J. (See Turman and Hampton.)						
Hamrick, Harry M., Philadelphia, Pa., assignor to International Incandescent Light Company, of West Virginia. Burner	629,355	July 25	2614	607	88	563
Hamrick, Harry M., Philadelphia, Pa., assignor to International Incandescent Light Company, of West Virginia. Vapor-burner	629,356	July 25	2615	607	88	563
Hamrick, Harry M., Philadelphia, Pa., assignor to International Incandescent Light Company, of West Virginia. Burner	629,357	July 25	2616	608	88	563
Hana, Joseph, Chicago, Ill. Chainless bicycle	636,260	Nov. 7	65	14	89	935
Hanak, Edward, assignor to Union Scale and Manufacturing Company, Sacramento, Cal. Automatic weighing-scale	637,388	Nov. 21	2256	485, 486	89	1412
Hanak, Edward, San Francisco, assignor to Union Scale and Manufacturing Company, Sacramento, Cal. Automatic weighing-machine	637,989	Nov. 28	3723	784	89	1762
Hanaway, William T., Seymour, Tex. Machine for generating and utilizing noxious fumes	632,566	Sept. 5	658	153	88	1837
Hance, Anthony M., Philadelphia, Pa. Display-box	619,300	Feb. 14	955	217	86	1016
Hance, William A., assignor to Stover Bicycle Manufacturing Company, Freeport, Ill. Crank-shaft bearing	634,525	Oct. 10	1036	247	89	224
Hanchett, George T., and F. B. Sage, Hackensack, N. J. Electrical measuring instrument	617,418	Jan. 10	1081	247	86	230
Hancock, Benjamin C., Mexia, Tex. Wire-stretcher	638,051	Nov. 28	3849	809	89	1786
Hancock, Edwin B. (See Yeiser and Hancock.)						
Hancock, Frederick, Stoke-upon-Trent, England. Jar or other receptacle	632,410	Sept. 5	360	82	88	1777
Hancock Inspirator Company. (See Park, William R., assignor.)						
Hancock Inspirator Company. (See Park and Williston, assignors.)						
Hand, Zelopheard, Millville, N. J. Hook	626,904	June 13	1300	287	87	1885
Handlan, Alexander H., Jr., St. Louis, Mo. Railway-flag	633,450	Sept. 19	2365	557	88	2198
Handley, Harry B., Baltimore, Md. Bottle, jug, jar, or similar vessel with a neck	637,459	Nov. 21	2379	515	89	1436
Handlan, Joseph, *et al.* (See Schaefer, William and J., assignors.)						
Handly, Thomas F., Allegheny, Pa. Medicine time-indicator	619,078	Feb. 7	533	112	86	914
Handly, Thomas F., Allegheny, Pa. Fire-extinguisher	631,570	Aug. 22	3436	776	88	1451
Handorf, Joseph von. (See Bagley and Felix, assignors.)						
Handy Brothers. (See Boss, William R., assignor.)						
"Handy Cycle Pump" Company *et al.* (See Leineweber, Herman, assignor.)						
Handy, Sherman T., *et al.* (See Hanson, Joseph H., assignor.)						
Hanes, Peter. (See Treadgold, George H., assignor.)						
Haney, Sumner M., and J. M. Hurst, New York, N. Y. Attachment for type-writing machines	636,797	Nov. 14	1089	233, 234	89	1168
Haney, William, Lexington, Ky. Switch-operating mechanism	637,112	Nov. 14	1703	367	89	1288
Hanford, Frank, *et al.* (See Dunn, Russell L., assignor.)						
Hanford, Samuel, Binghamton, N. Y. Acetylene-gas generator	628,198	July 4	443	105, 106	88	89
Hanigan, Adam W., Baltimore, Md., and G. H. Yardley, Montreal, Canada. Space-bar for line-casting machines	623,014	Apr. 11	1497	347	87	306
Hanington, Charles F., assignor to J. Hughes, New York, N. Y. Door-check	618,505	Jan. 31	3151	696	86	676
Hanington, Charles F., assignor to J. Hughes, New York, N. Y. Spring-hinge	623,367	Apr. 18	2166	498	87	451
Hanington, Charles F., assignor to J. Hughes, New York, N. Y. Spring-hinge	631,462	Aug. 22	3217	731	88	1407
Hanington, Charles F., assignor to Mechanical Door Hinge Check Company, New York, N. Y. Door-check	629,247	July 18	2403	557	88	502
Hanington, Charles F., assignor to Mechanical Door Hinge Check Company, New York, N. Y. Door-check	629,248	July 18	2406	558	88	503
Hanington, Charles F., assignor to Mechanical Door Hinge Check Company, New York, N. Y. Door-check	631,074	Aug. 15	2526	573	88	1253
Hanke, Gustav, assignor of one-half to E. T. Wahlert, Adair, Iowa. Trace-buckle	639,033	Dec. 12	1556	357	89	2190
Hanken, Edward E., Waggoner, Ill. Gate	635,044	Oct. 17	1952	462	89	421
Hanks, Austin J., Wilmington, Ohio. Let-off and take-up for looms	626,161	May 30	4117	938	87	1574
Hanley, Guy W., *et al.* (See Heany, John A., assignor.)						
Hanley, William W. R., *et al.* (See Heany, John A., assignor.)						
Hanlon, John H., Boston, assignor of one-half to W. J. Hanlon, Fitchburg, Mass. Pneumatic device for clearing railway-track-sanding pipes	633,193	Sept. 19	1867	440	88	2101
Hanlon, John H., Boston, assignor of one-half to W. J. Hanlon, Fitchburg, Mass. Pneumatic track-sanding apparatus	633,194	Sept. 19	1869	440	88	2101
Hanlon, John J., and J. Reuber, Allentown, Pa. Non-refillable bottle	617,395	Jan. 10	1038	236	86	221
Hanlon, William, Innishannon, Ireland. Bicycle attachment	620,918	Mar. 14	706	156	86	1652
Hanlon, William, Poughkeepsie, N. Y. Cash-carrier apparatus	625,883	May 30	3524	800	87	1464
Hanlon, William J. (See Hanlon, John H., assignor.)						
Hanly, James. (See Nixon, William A., assignor.)						
Hann, Chester K., Columbus, Ohio. Hammock	626,610	June 6	696	161	87	1749
Hanna, Elmer E., and T. W. Capen, assignors to Gates Iron Works, Chicago, Ill. Rock and ore breaker	639,558	Dec. 19	2535	582	89	2399
Hanna, Frank, assignor of one-fourth to J. Beatty, Jr., Santa Ana, Cal. Saw-set	640,131	Dec. 26	3581	824	89	2628
Hanna, Isaac, assignor of one-half to E. G. Stone, Chicago, Ill. Window-screen-frame holder	622,849	Apr. 11	1204	280	87	248
Hanna, James R. (See Forney, John M., assignor.)						
Hanna, William C. Jr., assignor to J. W. Fiske, New York, N. Y. Beam-shoe	636,982	Nov. 14	1450	313	89	1240
Hanna, William H., Montevideo, Minn. Udder-protector	637,780	Nov. 28	3335	698	89	1683
Hannah, Frederick A., Boston, Mass. Beam-compass	617,014	Jan. 3	291	64	86	58
Hannauer, Charles E., *et al.* (See Bléha, William V., assignor.)						
Hannay, James H., London, England. Swing-gate	634,338	Oct. 3	712	169	89	143
Hanneke, Paul, Berlin, assignor to L. Ellon & Co., Charlottenburg, Germany. Simultaneously developing and fixing photographic plates	634,137	Oct. 3	294		89	62
Hannis, Charles M., Middletown, Conn. Device for mending rubber tires	638,389	Dec. 5	390	82	89	1940

Alphabetical list of patentees—Continued.

Name, residence, and invention.	No.	Date.	Monthly volume. Spec.	Monthly volume. Dr'g.	Official Gazette. Vol.	Official Gazette. Page.
Hannold, Chalkley C. (See Cunard and Hannold.)						
Hannum, Henry A., Cazenovia, N. Y. Die for making pinking-cutters	623,602	Apr. 25	2594	593	87	555
Hans, Bernard B., New Orleans, La. Massage or flesh-kneading device	622,350	Apr. 4	261	60	87	50
Hanscom, Myrtle V., Modoc, Ind. Work-holding stand or table	620,313	Feb. 28	2776	634, 635	86	1405
Hanscom, William W., and A. Hough, San Francisco, Cal. Storage battery	638,390	Dec. 5	391	82	89	1940
Hansee, Rimmon H., Monticello, N. Y. Jar-fastener	639,559	Dec. 19	2537	582	89	2400
Hansel, Charles, and P. Freeman, New York, N. Y.; said Freeman assignor to said Hansel. Railway signal system	619,406	Feb. 14	1130	255, 256	86	1050
Hansen, Albrecht, and T. Lindgreen, Copenhagen, Denmark. Cover for pneumatic tires	627,731	June 27	2832	620	87	2222
Hansen, Axel H. T., Buenos Ayres, Argentina. Chainless bicycle	633,451	Sept. 19	2366	557	88	2198
Hansen, Charles H., Racine, Wis. Tank planer and scraper	617,336	Jan. 10	920	212	86	199
Hansen, Charles H., Racine, Wis. Brush	634,617	Oct. 10	1201	284	89	256
Hansen, Christopher C., Random Lake, Wis. Garment-supporter	629,358	July 25	2618	608	88	564
Hansèn, Florian E., Minneapolis, Minn. Support or holder for dish-covers	632,348	Sept. 5	251	59, 60	88	1757
Hansen, Hans, Redwood City, Cal. Plow	638,456	Dec. 5	519	107	89	1966
Hansen, Hans C., Chicago, Ill. Lap-robe	633,134	Sept. 19	1759	414, 415	88	2079
Hansen, Hawken P., Decorah, Iowa, assignor to Snow Windmill Company, Geneva, Ill. Power-winch	625,974	May 30	3690	839	87	1496
Hansen, Heinrich, Aix-la-Chapelle, Germany. Sleeper-support for rail-joints	618,381	Jan. 24	2899	643	86	613
Hansen, Jens H., Independence, Iowa. Corn-planter	620,768	Mar. 7	430	89	86	1585
Hansen, Laurits, St. Martin, Minn. Horse-collar	636,798	Nov. 14	1092	234	89	1169
Hansen, Marius H., Chicago, Ill. Case for weighing-scales	632,525	Sept. 5	577	133	88	1821
Hansen, Nis C. (See Snyder and Hansen.)						
Hansen, Otto, Mount Clare, and A. P. Nelsen, Chicago, Ill. Heating apparatus	638,708	Dec. 12	995	222	89	2080
Hansen, Thorvald. (See McCarter and Hansen.)						
Hansen, Thorvald, Everett, Mass. Advertising apparatus	619,301	Feb. 14	957	217	86	1016
Hänsler, Georg, Munich, Germany. Carriage-brake	638,925	Dec. 12	1367	312	89	2153
Hansman, Martin. (See Yeo, Stanley D. and N. C., assignors.)						
Hanson, Andrew K., and L. E. Johnson, assignors of one-third to F. J. Young, Valley City, N. D. Plow	618,202	Jan. 24	2582	571	86	553
Hanson, Anna, Jackson, Mich. Lace-fastener	625,165	May 16	2209	501	87	1166
Hanson, Antonia, *et al.* (See Hanson, Walter H., assignor.)						
Hanson, August, assignor to Winchester Repeating Arms Company, New Haven, Conn. Stock for firearms	626,905	June 13	1307	287	87	1885
Hanson, Bengt M. W., Hartford, Conn. Caliper attachment	639,560	Dec. 19	2539	583	89	2400
Hanson, Bengt M. W., Hartford, Conn. Metal-working tool	639,561	Dec. 19	2540	583	89	2400
Hanson, Carl E., San Francisco, Cal. Swivel plane support and handle	636,983	Nov. 14	1452	313	89	1241
Hanson, Christian F., La Crosse, Wis. Relief-valve	620,769	Mar. 7	431	89	86	1585
Hanson, Christian F., La Crosse, Wis. Relief-valve	620,770	Mar. 7	433	89	86	1586
Hanson, Ferdinand, and A. W. Reinnholm, Rockport, Mass. Wood holder and carrier	625,927	May 30	3601	818	87	1479
Hanson, John S., New York, N. Y. Puzzle	618,871	Feb. 7	101	21	86	824
Hanson, Joseph H., assignor of three-fourths to S. T. Handy, A. M. Darling, Crystal Falls, Mich., and D. R. Brown, Mills Centre, Wis. Wrench	618,506	Jan. 31	3155	697	86	676
Hanson, Joseph M., and W. Stewart, assignors to Acetylene Gas Apparatus Company, St. Paul, Minn. Acetylene-gas generator	632,488	Sept. 5	507	115, 116	88	1807
Hanson, Paul, Chicago, Ill. Automatic bicycle-pump	632,784	Sept. 12	1098	254	88	1940
Hanson, Thorvald, Eau Claire, Wis. Drawer-guide	620,447	Feb. 28	2992	685	86	1445
Hanson, Victor, Richmond, assignor of one-half to J. G. Whitlock, Hanover county, Va. Amalgamating apparatus	618,938	Feb. 7	234	53	86	850
Hanson, Victor, Richmond, assignor of one-half to J. G. Whitlock, Hanover county, Va. Steam-boiler	622,352	Apr. 4	263	60, 61	87	50
Hanson, Walter H., assignor to A. Hanson and O. H. Lee, Milwaukee, Wis. Type-writer	624,929	May 16	1802	405, 406	87	1091
Hanstein, Emil, Hoboken, N. J. Check for boiler-flues	617,570	Jan. 10	1355	306	86	283
Hanstein, Hermann, Chicago, Ill. Figure for educational purposes	630,217	Aug. 1	899	198	88	900
Hanthorn, Claude B., and A. Welch, Astoria, Oreg. Automatic water-feeder for steam-boilers	634,339	Oct. 3	712	170	89	143
Hantz, Eugène E. (See Hantz, Marie A. F. A., M. A. L. A., and E. E.)						
Hantz, Marie A. L. A. (See Hantz, Marie A. F. A., M. A. L. A., and E. E.)						
Hantz, Marie A. F. A., M. A. L. A., and E. E., Paris, France. Petroleum incandescent lamp	627,822	June 27	2993	654	87	2254
Happersberger, Emil. (See Hock and Happersberger.)						
Happy, Cameron E., Mayfield, assignor to R. D. Happy, Paducah, Ky. Latch for gates	627,750	June 27	2870	627	87	2232
Happy, R. D. (See Happy, Cameron E., assignor.)						
Harbaugh, Harrison K., Pittsburg, Pa. Trammel-stick connection	618,345	Jan. 24	2827	628	86	599
Harbaugh, Horace W. (See Whittier, Jcseph G., assignor.)						
Harbeck, Charles T., *et al.* (See Mallett, Charles E., assignor.) (Reissue.)						
Harbeckes, Henry, Philadelphia, Pa. Water heater and tank	636,799	Nov. 14	1093	234	89	1169
Harbridge, Frederick J., Gravenhurst, Canada. Printing-press	622,427	Apr. 4	402	93	87	75
Hardaway, Ezra T., *et al.* (See Hood, Hiram Q., assignor.)						
Harden, Edward W., assignor to F. C. Weir, Cincinnati, Ohio; L. C. Weir executor of said F. C. Weir, deceased. Compound engine	625,758	May 30	3266	741	87	1415
Harden, George, Toledo, Ohio. Acetylene-gas apparatus	634,817	Oct. 10	1544	363, 364	89	323
Harden, William H., Quitman, Ga. Animal-trap	632,112	Aug. 29	4420	993	88	1653
Harden, William I. F., Hartford, Kans. Non-refillable bottle	639,562	Dec. 19	2543	583	89	2401
Harden, William I. F., and E. Buck, Hartford, Kans., assignors to said Harden. Clothes-pin	625,261	May 16	2384	541	87	1199
Harder, George D., Cobleskill, N. Y. Silo	627,732	June 27	2833	621	87	2222
Hardie, Gordon H., and N. Thompson, Vancouver, Canada. Steam-generator	639,973	Dec. 26	3299	755, 756	89	2570
Hardie, Robert, Rome, assignor to General Compressed Air Company, New York, N. Y. Air-storage motor-car	616,922	Jan. 3	114	25, 26	86	24
Hardin, John W., Newcomb, Tenn. Non-refillable bottle	618,872	Feb. 7	102	22	86	824
Hardin, Patrick K., Chicago, Ill. Valve device	629,249	July 18	2409	558	88	504
Hardin, Richard L., assignor of one-half to R. H. Harper, Chicago, Ill. Wall-protector	624,796	May 9	1548	353	87	1025
Hardin, William, Jr., West Liberty, Iowa. Broom-moistener	632,263	Sept. 5	101	21	88	1726
Harding, Charles K., assignor of one-half to S. H. Levy, Chicago, Ill. Acetylene-gas generator and lamp	626,324	June 6	202	49, 50	87	1651
Harding, Daniel J., St. Louis, Mo., assignor of one-half to W. M. Boyle, Corsicana, Tex. Elevator-door	618,664	Jan. 31	3438	766	86	731
Harding, Fred C., assignor of one-half to R. C. Daniel, Chicago, Ill., and R. B. Daniel, Sanborn, Iowa. Gearing for bicycles	622,679	Apr. 11	909	210	87	192
Harding, Fred C., assignor of three-fourths to R. C. Daniel, Chicago, Ill., and R. B. Daniel, Sanborn, Iowa. Bicycle driving-gear	634,942	Oct. 17	1759	418	89	382

Alphabetical list of patentees—Continued.

Name, residence, and invention.	No.	Date.	Monthly volume.		Official Gazette.	
			Spec.	Dr'g.	Vol.	Page.
Harding, Fred D., Baldwin, Me. Washing-machine	618,570	Jan. 31	3267	725	86	697
Harding, John. (See Strauss and Harding.)						
Harding, Joseph W. (See Hindley and Harding.)						
Harding, Thomas, San José, Cal. Nut-lock	617,015	Jan. 3	292	65	86	58
Harding, William Y., assignor to D. W. Matsler, Chanute, Kans. Furrow-opener	634,239	Oct. 3	494	127	89	100
Hards, Edward, Deshler, assignor of one-fourth to D. J. Springer and F. F. Brown, Fremont, Nebr. Middlings-purifier	625,106	May 16	2120	481 482	87	1150
Hardt, Christina, Blasewitz, Germany. Waist	639,381	Dec. 19	2216	513	89	2336
Hardt, Julius, Chicago, Ill. Meat-grinder	633,135	Sept. 19	1760	415	88	2080
Hardwick, Harry, Philadelphia, Pa. Loom for weaving chenille fabrics	625,841	May 30	3438	780	87	1448
Hardwick, Harry, Philadelphia, Pa. Loom for weaving chenille fabrics	625,928	May 30	3602	818	87	1479
Hardwick, Harry, assignor to Ivins, Dietz & Metzger Company, Philadelphia, Pa. Woven fabric and weaving same	629,292	July 18	2478	578	88	516
Hardwick, Harry, assignor to Ivins, Dietz & Metzger Company, Philadelphia, Pa. Woven rug	640,132	Dec. 26	3581	824	89	2628
Hardy, David L., and A. L. Maple, Indianapolis, assignors to W. P. Bushnell, Monticello, Ind. Letter-press	628,266	July 4	586	139	88	114
Hardy, Ernest P. L., Liverpool, England. Valve for pneumatic tires	620,314	Feb. 28	2779	635	86	1405
Hardy, Henry H., Covington, Ky. Carbureter	618,382	Jan. 24	2900	643	86	613
Hardy, Walter B., Akron, Ohio. Apparatus for making hollow rubber tires	627,230	June 20	1867	409	87	2014
Hare, Jonas F., Jersey City, N. J. Locomotive-headlight-chimney protector	624,328	May 2	708	157	87	836
Harfield, William H., London, England. Windlass	618,203	Jan. 24	2584	571	86	554
Hargens, John H., San Francisco, Cal. Educational appliance	626,423	June 6	383	90	87	1688
Hargrave, Edward C., Bay City, Mich. Liquefied-air-conveying conduit	625,759	May 30	3270	741	87	1416
Hargrave, Edward C., Bay City, Mich. Liquefied-air container for refrigerating purposes	625,760	May 30	3272	741	87	1416
Hargreaves, Henry, London, England. Apparatus for heating, drying, or airing	619,407	Feb. 14	1134	256	86	1050
Hargrove, William, and J. J. Wylde, Montreal, Canada; said Hargrove assignor to said Wylde. Ironing-board	633,837	Sept. 26	3058	711	88	2349
Hargroves, Robert T., Churchland, Va. Barrel	619,686	Feb. 14	1621	370	86	1144
Harig, Henry. (See Jones and Harig.)						
Harkinson, John L., and H. A. Holliday, Amery, Wis. Truss	621,078	Mar. 14	1022	224	86	1711
Harkness, Charles B., Boston, Mass. Door-check	628,795	July 11	1604	370	88	334
Harlan, Edward E., St. Louis, Mo. Garment	622,622	Apr. 4	782	182	87	149
Harlan, Howard, Richmond, Va. Device for introducing air into steam-boiler furnaces	627,688	June 27	2759	605	87	2208
Harlan, Wilbur, assignor of one-half to D. J. Dinsmore, New York, N. Y. Condensed-milk-can holder	637,460	Nov. 21	2380	515	89	1436
Harless, Charles R., Tabor, Iowa. Spring-trip for cultivators	634,558	Oct. 10	1108	262	89	239
Harley, Erwin M., Tiffin, Ohio. Umbrella	633,584	Sept. 26	2629	614	88	2263
Harley, Henry M., Gloucester City, N. J., assignor of one-half to G. A. Heyl, Philadelphia, Pa. Fabric-printing machine	639,382	Dec. 19	2216	513	89	2336
Harley, Henry M., and E. U. Gibbs, Gloucester City, N. J., assignors of one-third to G. A. Heyl, Philadelphia, Pa. Calendering-machine	639,974	Dec. 26	3302	756 757	89	2570
Harlin, George C., Stockton, Cal. Car-coupling	623,211	Apr. 18	1880	431	87	394
Harloe, Morton, and W. S. Bloes, Peckville, Pa. Insulator	621,661	Mar. 21	2074	463	86	1929
Harlor, Edward T., Harrisburg, Ohio. Whiffletree	629,681	July 25	3211	748	88	680
Harlow, John C., Janesville, Wis. Canopy for boats	617,571	Jan. 10	1356	306	86	283
Harmann, Carl, Neustadt, Austria-Hungary, assignor of one-half to T. Geck, Altena, Germany. Wire-drawing machine	624,018	May 2	118	26,27	87	725
Harmeyer, Horace W., Cincinnati, assignor of one-half to E. W. Marriott, Cleveland, Ohio. Micro-audiphone	621,244	Mar. 14	1317	292	86	1770
Harmon, Sarah, Beverly, Mass. Window for locomotive-cabs, &c	632,264	Sept. 5	102	22	88	1727
Harmon, William. (See Eastman, Frank A., assignor.)						
Harness, Richard A. (See Hironimus and Harness.)						
Harnett, Edward, London, England. Spring-cycle	634,340	Oct. 3	715	170	89	143
Harnly, Joseph H., assignor to L. D. Harnly, Manheim, Pa. Nut-lock	620,448	Feb. 28	2993	685	86	1446
Harnly, Lavina D. (See Harnly, Joseph H., assignor.)						
Harp, Jerry A., Urbana, Ohio. Gasolene or gas engine	628,316	July 4	703	163	88	135
Harper, Abraham T. (See Harper, John and A. T.)						
Harper, Frank W., Midlothian, Va. Air-brake coupling	639,851	Dec. 26	3079	708	89	2525
Harper, George A. (See Innes, Isabella, assignor.)						
Harper, George F., Lenoir, N. C. Adjustable ladder for telephone-poles, &c	631,302	Aug. 22	2930	664	88	1350
Harper, John and A. T., Portland, Me., assignors to Tyler Hinged Last Company, Brockton, Mass. Last	639,034	Dec. 12	1557	357	89	2190
Harper, Richard H. (See Hardin, Richard L., assignor.)						
Harper, Wesley P., Latrobe, Pa. Horse-detacher	618,665	Jan. 31	3440	767	86	732
Harper, William L., Kent Island, Md. Oyster-tongs	618,873	Feb. 7	103	22	86	824
Harper, William S., Braxton, Miss. Mop-head	634,138	Oct. 3	295	75	89	62
Harpman, John, Victoria, Ill. Bob-sleigh	636,261	Nov. 7	66	15	89	936
Harpold, Charles C., Italy, Tex. Wrench	622,428	Apr. 4	406	93	87	76
Harpole, Andrew J. (See Fowler and Harpole.)						
Harreff, Ithamer M., Canfield, Ohio. Clothes-pin sack and carrier	621,662	Mar. 21	2075	463	86	1929
Harrell, Joseph J., Chicago, Ill. Revolving car-signal	622,223	Apr. 4	47	11	87	12
Harrell, Joseph J., Chicago, Ill. Nut-lock	625,501	May 23	2812	641	87	1308
Harrelson, James W., Belton, Mo. Hog trap and loading device	634,139	Oct. 3	296	75	89	62
Harrelson, William H., Kansas City, Mo. Automatic chair-mat for cross-jetty work	620,584	Mar. 7	58	12	86	1514
Harres, C. W. (See Parker, Robert L., assignor.)						
Harrigan, Michael T., Wollaston, Mass., assignor to McKay Shoe Machinery Company, Portland, Me. Rotary cutter-head for heel-trimming machines	625,728	May 23	3194	726	87	1383
Harriman, Frank H., Maynard, Mass. Burner for heating purposes	628,160	July 4	380	90	88	77
Harriman, Frank H., assignor to E. E. Claussen, Hartford, Conn Electric cigar-lighter	635,930	Oct. 31	3673	848	89	783
Harriman, Henry I., New York, N. Y. Loom	636,228	Oct. 31	4265	979 980	89	902
Harriman, Henry I., New York, N. Y. Loom	637,113	Nov. 14	1704	367 368 369	89	1288
Harriman, Henry I., New York, N. Y. Loom	639,975	Dec. 26	3304	757 758 759	89	2571
Harriman, Henry I., New York, N. Y., assignor to Universal Loom Company, Readville, Mass. Loom	626,834	June 13	1136	253 254 255	87	1851
Harrington, Charles, assignor of one-half to E. Rowntree, Bartlett, Tex. Baling-press	628,001	July 4	82	16,17	88	17
Harrington, Cornelius J., assignor to T. Hoey, Boston, Mass. Screw-cutting die	639,232	Dec. 19	1922	442	89	2275
Harrington, Frank. (See Whitney and Harrington.)						
Harrington, John P., Baltimore, Md. Apparatus for making crank-shafts	624,019	May 2	121	27	87	726

Alphabetical list of patentees—Continued.

Name, residence, and invention.	No.	Date.	Monthly volume.		Official Gazette.	
			Spec.	Dr'g.	Vol.	Page.
Harrington, La Motte, *et al.* (See Kelsey, Henry O., assignor.)						
Harrington, Samuel H., New York, N. Y. Drilling-machine	619,955	Feb. 21	2131	482 483	86	1268
Harrington, Samuel H., New York, N. Y. Constructing and bonding rails of electric railways	620,031	Feb. 21	2270	514	86	1294
Harrington, Samuel H., New York, N. Y. Electric rail-bond	626,377	June 6	315	72	87	1675
Harrington, Samuel H., New York, N. Y. Electric rail-bond	626,378	June 6	316	73	87	1675
Harrington, William H., Salamanca, N. Y. Truss	627,807	June 27	2966	649	87	2249
Harris, Albert G. (See Paugh and Harris.)						
Harris, Albert T., London, England. Bicycle-chain adjustment	633,195	Sept. 19	1871	441	88	2102
Harris, Alexander B. B., Bristol, Tenn. Railway-tie plate	625,884	May 30	3525	800	87	1465
Harris, Alfred R., *et al* (See Murphy, David, assignor.)						
Harris, Arch H. (See McGuire and Harris.)						
Harris Automatic Press Company. (See McNutt, John F., assignor.)						
Harris, Benjamin S. H. (See Harris, William A. and B S. H.)						
Harris, Bert D., St. Catharines, Canada. Handle-bar clamp	622,766	Apr. 11	1050	243	87	219
Harris, Charles B., New York, N. Y. Ice making and cutting machine	638,577	Dec. 5	727	155 156	89	2005
Harris, Charles B., assignor to D. Daniel, Lonoke, Ark. Ground plow-stock and colter attachment	626,786	June 13	1049	235	87	1836
Harris, Charles B., assignor of one-half to D. Daniel, Lonoke, Ark. Plow and plow-point	633,757	Sept. 26	2933	681	88	2322
Harris, Charles E., Niles, Ohio. Attachment for feed-tables	638,634	Dec. 5	842	183	89	2028
Harris, Charles R., Williamsport, Pa., assignor to Harris Safety Company, of New Jersey. Fire-escape	617,739	Jan. 17	1667	375 376	86	364
Harris, Charles R., Williamsport, Pa., assignor to Harris Safety Company, of New Jersey. Fire-escape	617,740	Jan. 17	1669	376	86	365
Harris, Charles R., Williamsport, Pa., assignor to Harris Safety Company, of New Jersey. Ladder	617,741	Jan. 17	1671	376	86	365
Harris, Elmo G., Rollo, Mo. Automatic regulator for wind-wheels	617,877	Jan. 17	1951	437	86	420
Harris, Elmo G., Rolla, Mo. Water-service system	623,470	Apr. 18	2339	537	87	489
Harris, Eugene F., *et al.* (See McCune, James F., assignor.)						
Harris, Fairfield, Haverhill, Mass. Bracket for curtain-rods	628,199	July 4	450	106	88	90
Harris, Frank L., Oakfield, N. Y. Swing	639,563	Dec. 19	2544	584	89	2401
Harris, George, *et al.* (See Mauro, Giovanni, assignor.)						
Harris, George T. (See Torbensen, Viggo V., assignor.)						
Harris, Hermen. (See Burt and Harris.)						
Harris, Isaac L., Jacksonville, Fla. Apparatus for generating acetylene gas	637,252	Nov. 21	1989	426	89	1358
Harris, James A., Cornsville, Va Combination-tool	637,253	Nov. 21	1992	427	89	1358
Harris, James F., Nix, Ala. Plow	625,502	May 23	2813	641	87	1308
Harris, James G. (See Tulloch, John A., assignor.)						
Harris, James G., *et al.* (See Stephens, Dabney B., assignor.)						
Harris, John, H. W. Gazell, and L. H. Vogel, Cleveland, Ohio. Acetylene-gas generator	628,462	July 11	955	223	88	203
Harris, John E., Burlington, Vt. Stamp-holder and binder	634,454	Oct. 10	916	219	89	200
Harris, John N., assignor to Globe Trading Company, Limited, London, England. Refining oils or fats	623,368	Apr. 18	2171	498	87	452
Harris, John P. (See Newson and Harris.)						
Harris, John W. (See Paugh and Harris.)						
Harris, Lewis L., Providence, R. I. Assembling-machine	639,383	Dec. 19	2217	513	88	2336
Harris, Malcolm L., Chicago, Ill. Urine-segregator	617,016	Jan. 3	293	65	86	59
Harris, Malcolm L., Chicago, Ill. Forceps	621,565	Mar. 21	1903	425	86	1894
Harris, Robert C., Oskaloosa, Iowa. Three-horse evener	632,869	Sept. 12	1250	285	88	1971
Harris, Rutledge, Cedar Falls, Iowa. Center rest for lathes	618,666	Jan. 31	3441	767	86	732
Harris, Rutledge, Cedar Falls, Iowa. Post-turning machine	618,667	Jan. 31	3442	767 768	86	732
Harris, Rutledge, Cedar Falls, Iowa. Spindle-turning machine	624,930	May 16	1814	407	87	1092
Harris Safety Company. (See Harris, Charles R., assignor.)						
Harris, Samuel C., Helena, Okla Ter. Wagon-end-board-rod fastening	622,353	Apr. 4	268	61	87	52
Harris, Stephen M., Cheney, Wash. Wagon-tongue	617,808	Jan. 17	1823	407	86	394
Harris Suspender Company. (See Freeman, William, assignor.)						
Harris, Wilbur J., Mount Pleasant, Ohio. Switch-operating mechanism	619,172	Feb. 7	717	154	86	951
Harris, William, Cambridge, Ohio. Bread or pastry board	624,797	May 9	1549	353	87	1025
Harris, William A. and B. S. H., assignors of one-fifth to O. E. Hughes, Greenville, S. C. Train signaling device	628,796	July 11	1605	370	88	334
Harris, William E., New York, N. Y. Fireman's apparatus for saving life	636,984	Nov. 14	1453	313 314	89	1241
Harris, William G., London, England. Photographic-finder cover	639,564	Dec. 19	2546	584	89	2401
Harris, William L. (See Miller and Harris.)						
Harris, William L., assignor of two-thirds to A. H Peirce and J. B. McMahon, Chicago, Ill. Vending-machine	631,488	Aug. 22	3270	744 745	88	1418
Harris, William W., assignor to P. Pfleiderer, London, England. Refrigerating apparatus	626,906	June 13	1308	287 288	87	1886
Harris, William W., assignor to P. Pfleiderer, London, England. Apparatus for charging refrigerating apparatus with ammonia solution	629,359	July 25	2619	608	88	564
Harrison Bros. & Company (See Darling, James D., assignor.)						
Harrison, Frank B, Toledo, Ohio. Dust guard	618,414	Jan. 31	2993	663	86	646
Harrison, George L. (See Browne and Harrison)						
Harrison, Henry H, New York, N Y. Hand-stamp	632,113	Aug. 29	4422	993 994	88	1654
Harrison, J M (See Thurmon. William H, assignor.)						
Harrison, James H, and W. Brown; said Brown assignor of one-half to J. H. Kingsbury, Lapeer. Mich. Parasol attachment for bicycles	617.096	Jan. 3	451	109	86	88
Harrison. James P, Danville, Va Game-board	636,663	Nov. 7	787	173	89	1081
Harrison, John, East Point, Ky Plow	618,088	Jan. 24	2358	526	86	512
Harrison, John, Philadelphia, Pa. Key for railway-spikes	633,838	Sept. 26	3059	711	88	2350
Harrison, John, assignor to Elliptic Cycle Company, Limited, Peterborough, England. Bicycle-valve	617,337	Jan. 10	923	212	86	199
Harrison, John T., Riversville, Miss. Horse-detacher	635,931	Oct. 31	3675	848	89	784
Harrison, Joseph H (See Gjers and Harrison.)						
Harrison, Newton, New York, N. Y. Photographic dark room	617,017	Jan. 3	296	65	86	59
Harrison Philip B, assignor to Chicago Railway Equipment Company, Chicago, Ill. Brake beam	621,079	Mar. 14	1023	224	86	1711
Harrison, Philip B., assignor to Chicago Railway Equipment Company, Chicago, Ill. Brake-beam	621,606	Mar. 21	1967	439	86	1907
Harrison, Thomas, Whitley, England. Valve for bicycle-tires	629,561	July 25	2995	700	88	638
Harrison, Thomas, Gateshead, England. Valve for pneumatic tires	633,585	Sept. 26	2630	615	88	2263

Alphabetical list of patentees—Continued.

Name, residence, and invention.	No.	Date.	Monthly volume. Spec.	Monthly volume. Dr'g.	Official Gazette. Vol.	Official Gazette. Page.
Harrison, Willett H. (See Youngs, Charles W., assignor)						
Harrison, William H. (See Rowland and Harrison.)						
Harrison, William H., Braintree, Mass. Steam-engine indicator	631,463	Aug. 22	3218	731	88	1408
Harrison, William H. C., Woodville, South Australia. Tool-holder	637,735	Nov. 21	3250	677	89	1647
Harrison, William W. (See Austin, William N., assignor.)						
Harrison, William W. (See Pervear, Harrison, and Holt.)						
Harrop, Joseph M. (See Fultz, John M., assignor.)						
Harrouff, George, McPherson, Kans. Combined stock and feed rack for wagons	618,346	Jan. 24	2828	628	86	599
Harshman, John W., Globe, Kans. Rein-holding attachment for harness-saddles	617,960	Jan. 17	2098	470	86	449
Hart, Alfred, and C. A. Bramwell, Melbourne, Victoria. Export butter-box	627,259	June 20	1926	424	87	2027
Hart, David B., New York, N. Y. Display device	635,278	Oct. 17	2402	559	89	507
Hart, Edwin, assignor to New England Watch Company, Waterbury, Conn. Watch regulator	621 245	Mar. 14	1318	292	86	1770
Hart, Gerald W., West Hartford, Conn. Electric switch	631,303	Aug. 22	2933	664	88	1350
Hart, Gerald W., West Hartford, Conn. Snap-switch	631,304	Aug. 22	2936	665	88	1351
Hart, Gilbert, Detroit, Mich. Chuck for emery-wheels	639,035	Dec. 12	1557	358	89	2190
Hart, Golden. (See Osborne, John W., assignor.)						
Hart, Harry M., *et al.* (See Avery, Tracy G., assignor.)						
Hart & Hegeman Manufacturing Company. (See Guett, Monroe, assignor.)						
Hart, Henry C., Detroit, Mich. Motor road-vehicle	623,149	Apr. 18	1771	407	87	372
Hart, James L., Grenola, Kans. Kafir-corn header	624,798	May 9	1551	353, 354	87	1025
Hart, John P., Cadwalader, Pa. Unchecking device	622,767	Apr. 11	1051	243	87	219
Hart, John W., assignor, by mesne assignments, of one-half to W. Weaver, Iola, Kans. Slicer and grater for vegetables, fruit, &c	639,852	Dec. 26	3080	708	89	2525
Hart, John W., and B. F. Pancoast, assignors of one-half to J. Spoo and W. E. Bradly, Iola, Kans. Pump	621,964	Mar. 28	2667	600	86	2057
Hart, Milton H., Winchester, Mass. Hose-nozzle	628,907	July 11	1807	421	88	372
Hart, Rubin S., and W. Padgett, Brooklyn, Ala. Car-coupling	623,902	Apr. 25	3154	727	87	662
Hart, Sidney H., Houston, Tex. Hand-tool for forming stud-spirals	620,449	Feb. 28	2995	685	86	1446
Hart, Stacy B., assignor to Hart Weigher Company, Peoria, Ill. Two-way pivotal coupling	627,260	June 20	1927	424	87	2027
Hart, Thomas F., Lynn, Mass. Leather-snipping machine	639,233	Dec. 19	1923	442, 443	89	2275
Hart, Walter, New York, N. Y. Flag-fender	634,140	Oct. 3	297	76	89	62
Hart, Walter V., Wheeler, Ind. Potato-planter and fertilizer-distributer	627,115	June 20	1671	366	87	1976
Hart Weigher Company. (See Hart, Stacy B., assignor.)						
Hart, William H., Jr., Philadelphia, Pa. Bicycle-support	626,693	June 13	872	198	87	1802
Hart, William H., Jr., Philadelphia, Pa. Bicycle-support	626,694	June 13	874	198	87	1803
Hart, William H., Jr., Philadelphia, Pa. Bicycle-support	626,695	June 13	875	199	87	1803
Hart, William H., Jr., Philadelphia, Pa. Bicycle-support	626,696	June 13	876	199	87	1803
Hart, William H., Jr., Philadelphia, Pa. Bicycle-support	626,697	June 13	878	199, 200	87	1804
Hart, William H., Jr., Philadelphia, Pa. Bicycle-support	634,296	Oct. 3	614	150	89	123
Hart, William H., Jr., Philadelphia, Pa. Bicycle-support	634,297	Oct. 3	615	151	89	123
Hart, William H., Jr., Philadelphia, Pa. Bicycle-support	634,298	Oct. 3	615	151	89	123
Hart, William H., Jr., Philadelphia, Pa. Bicycle-support	636,664	Nov. 7	789	173, 174	89	1081
Hart, William H., Jr., Philadelphia, Pa. Bicycle-support	637,254	Nov. 21	1993	427	89	1358
Hart, William H., assignor to Stanley Works, New Britain, Conn. Hinge	618,668	Jan. 31	3443	768	86	732
Hart, William H., assignor to Stanley Works, New Britain, Conn. Antifriction-hinge	639,565	Dec. 19	2547	584	89	2401
Hartenfels, Philip, New York, N. Y. Gas-leak indicator	634,687	Oct. 10	1320	313	89	280
Hartenstein, Herman L., Bellaire, Ohio. Manufacturing metallic carbids	630,690	Aug. 8	1830	------	88	1091
Harter, Gustav A., Chicago, Ill. Incandescent lamp holder or receptacle	636,336	Nov. 7	178	40	89	957
Harter, Jacob, North Manchester, Ind. Axle-nut wrench	617,742	Jan. 17	1672	377	86	365
Harter, Mary A., Hebron, Ohio. Curtain-pole	630,348	Aug 8	1174	257	88	970
Hartford Machine Screw Company. (See Witherell, George E., assignor.)						
Hartford Typewriter Company. (See Fairfield and Dodge, assignors.)						
Harthan, Charles E., Lynn, Mass., assignor to General Electric Company, of New York. Electric-arc lamp	635,851	Oct. 31	3520	810	89	754
Harthan, Warren P., assignor to J. Garst, Worcester, Mass. Liquid-measuring elevator	619,253	Feb. 7	860	188	86	981
Hartig, William F., Evansville, Ind. Plow	630,454	Aug. 8	1408	315	88	1011
Härting, Eduard, Munich, Germany. Bicycle package-carrier	625,673	May 23	3102	705	87	1365
Harting, Samuel, *et al.* (See Humphrey, Harry J., assignor.)						
Hartley, George W., Toledo, Ohio. Eaves-trough hanger	635,317	Oct. 24	2469	574	89	536
Hartley, William H. (See Köneman, William A., assignor.)						
Hartley, William H. (See Köneman and Hartley.)						
Hartman, Edward J., assignor of one-half to E. H. Wuerdeman, Cincinnati, Ohio. Neck-tie-fastener	639,172	Dec. 12	1789	415	89	2235
Hartman, George, *et al.* (See Forsyth, Charles E., assignor.)						
Hartman, John M., Philadelphia, Pa. Apparatus for casting pig metal	629,903	Aug. 1	288	65, 66	88	777
Hartman, Joshua, Knox, Ind. Beehive	630,828	Aug. 8	2063	465	88	1140
Hartman, Ollis P., Taylor, Tex. Engine	617,249	Jan. 3	731	169	86	143
Hartman, William A., Mayburg, Pa. Sled	633,085	Sept. 12	1622	377, 378	88	2042
Hartmann, Christoph. (See Herbabny and Hartmann.)						
Hartmann, Oscar, assignor to F. Krupp, Essen, Germany. Time-fuse	629,160	July 18	2263	524	88	477
Hartmann, Richard A. (See Hartmann, William C. and R. A.)						
Hartmann, William C. (See Kneeland and Hartmann.)						
Hartmann, William C. and R. A., Detroit, Mich., assignors, by mesne assignments, to Royal Separator Company, of Michigan. Centrifugal cream-separator	636,383	Nov. 7	266	59, 60	89	975
Hartness, James, Springfield, Vt. Stock-feeding mechanism for screw-machines	629,161	July 18	2264	524, 525	88	477
Hartness, James, Springfield, Vt. Turret-lathe	635,887	Oct. 31	3584	824, 825, 826, 827, 828, 829	89	766
Hartness, James, Springfield, Vt. Turret-lathe	635,888	Oct. 31	3601	829, 830, 831	89	770
Hartness, James, Springfield, Vt. Fluid-operated lathe	637,461	Nov. 21	2381	515, 516	89	1436
Hartness, James, Springfield, Vt. Box-slide-forming tool	638,578	Dec. 5	729	156	89	2006
Hartnett, Michael F., La Salle, Ill. Double rim for paint-cans	620,771	Mar. 7	434	89	86	1586

Alphabetical list of patentees—Continued.

Name, residence, and invention.	No.	Date.	Monthly volume. Spec.	Monthly volume. Dr'g.	Official Gazette. Vol.	Official Gazette. Page.
Hartridge, Samuel, Huntington, N. Y. Ash-sifter	622,004	Mar. 28	2738	618	86	2072
Hartridge, William B., London, England. Apparatus for manufacturing fuel-blocks	630,691	Aug. 8	1831	413	88	1091
Hartshorn, Edmund F., Newark, N. J., assignor to Stewart Hartshorn Company, of New Jersey. Shade-roller	627,733	June 27	2834	621	87	2223
Hartshorn, Joseph, assignor of one-half to S. C. Mains, Stuart, Iowa. Vehicle-wheel hub	630,883	Aug. 15	2155	490	88	1181
Hartwell, Jacob E., Troy, Mont. Wave-motor	626,162	May 30	4119	938 939	87	1574
Hartwell, Jacob E., assignor of one-half to A. E. Carle and D. T. Wood, Troy, Mont. Rotary steam-engine	618,347	Jan. 24	2829	628 629	86	600
Hartwell, Jacob E., assignor of one-half to G. W. Waters, Troy, Mont. Mechanical movement	630,218	Aug. 1	901	198	88	900
Hartz, Henry V., Cleveland, Ohio. Machine for preparing and welding pipe-joints	633,136	Sept. 19	1763	415 416	88	2080
Hartzell, James H., Cincinnati, Ohio. Truck	637,867	Nov. 28	3515	734	89	1720
Harvesta, Charles, New Orleans, La. Compound for destroying vegetation	631,636	Aug. 22	3543	------	88	1473
Harvey, Alexander L. (See Jones and Harvey.)						
Harvey, George L., Chicago, Ill. Car-bolster	622,465	Apr. 4	484	114	87	90
Harvey, Isaac H., assignor of one-half to J. W. and G. H. Johnston, Jumping Branch, W. Va. Office-door indicator	620,315	Feb. 28	2780	635	86	1406
Harvey, James A., Toronto, Canada. Puzzle	622,354	Apr. 4	269	61	87	52
Harvey, Jesse B., *et al.* (See Crosby, Charles E., assignor.)						
Harvey, John D., San Francisco, Cal. Linotype or line-castiug machine	618,348	Jan. 24	2832	629	86	600
Harvey, John D., Salinas, Cal. Linotype-mold adjuster	625,445	May 23	2718	618	87	1289
Harvey, John H., Detroit, Mich. Seal-lock	634,411	Oct. 3	830	200	89	166
Harvey, John H., assignor to himself, M. C. and G. H. Wilcox, Chicago, Ill. Stock-marker	630,349	Aug. 8	1174	258	88	970
Harvey, Samuel W. (See Culver, Clarence, assignor.)						
Harvey, Thomas O., *et al.* (See Farmer, Frank H., assignor.)						
Harvey, Turliugton W., Jr. (See Fortiner, John C., assignor.)						
Harvey, William, Denver, Colo. Roasting or drying furnace	627,333	June 20	2065	455	87	2056
Harvey, William A., assignor of one-half to N. Vidaver and H. B. Reynolds, Scranton, Pa. Electrical sign	619,687	Feb. 14	1622	370	86	1144
Harvey, William L. (See Tweedale and Harvey.)						
Harvey, William L., Gosford, assignor of five-twelfths to J. H. Canfield, J. P. Nill, McKeesport, D. Waldschmidt, and H. F. Walkmeyer, Pittsburg, Pa. Oscillating gravity-motor	620,032	Feb. 21	2271	515	86	1294
Harvie, John E., Los Angeles, Cal. Machine for making pop-corn gems	618,669	Jan. 31	3445	768	86	733
Harvin, Charles R., Manning, S. C. Matcher-head	633,452	Sept. 19	2367	557	88	2198
Harwood, Frank C., C. C. Leedle, and G. L. Reed, assignors to A. C. Evans Manufacturing Company, Springfield, Ohio. Corn-planter	635,541	Oct. 24	2934	670 671	89	627
Harwood, Silas J., Dorset, assignor of one-tenth to G. L. Woodcock, Manchester, Vt. Making clotb waterproof	625,030	May 16	1973	------	87	1124
Hasbrouck, Stephen A., New York, N. Y. Convertible compound explosive-engine	624,649	May 9	1283	287	87	970
Hasburg, John W., Chicago, Ill. Package containing gold paint	627,580	June 27	2552	562	87	2166
Hasch, Christian, Stuttgart, Germany. Hair-cutting apparatus	628,002	July 4	85	17	88	18
Haselden, John R., Lancaster, Ky. Filter	620,316	Feb. 28	2781	636	86	1406
Haseltine, Edgar J., *et al.* (See Brown, Thomas T., assignor.)						
Haskell, Broderick, Grand Rapids, Mich. Push-rod	617,484	Jan. 10	1190	271	86	251
Haskell, Broderick, Grand Rapids, Mich. Railway bumping-post	618,460	Jan. 31	3065	678 679	86	659
Haskell, Coburn. (See Work and Haskell.)						
Haskell, John O., Concord, Mass. Hanger for supporting small metallic pipes	624,484	May 9	987	219	87	914
Haskell, Loring B. (See Martins and Haskell.)						
Haskell, William C. (See Miller, John D., assignor.)						
Hasker & Marcuse Manufacturing Company. (See Marcuse, Milton E., assignor.)						
Hasker & Marcuse Manufacturing Company. (See Marcuse, Moses M., assignor.)						
Haskins, Caryl D., Newton, Mass., assignor to General Electric Company, of New York. Two-rate meter	619,302	Feb. 14	960	218	86	1017
Haskins, Caryl D., Newton, Mass., assignor to General Electric Company, of New York. Electric meter	631,503	Aug. 22	3300	750	88	1424
Haskins, Elbridge and J., Detroit, Minn. Clothes-conveyer for washing-machines	628,797	July 11	1610	371	88	335
Haskins, Harry C., New York, N. Y. Sleeping-car	619,173	Feb. 7	719	155	86	952
Haskins, Harry C., New York, N. Y. Sleeping-car	619,174	Feb. 7	721	155 156	86	952
Haskins, James. (See Haskins, Elbridge and J.)						
Haskins, William B. (See Goodell and Haskins.)						
Haslam, Charles H., Stockton, Cal. Gate	621,246	Mar. 14	1319	293	86	1770
Haslam, John J., Avondale, New Zealand. Dumping-scow	631,637	Aug. 22	3543	798	88	1473
Haslam, Robert H , Taunton, Mass. Coffee or tea extractor	618,089	Jan. 24	2360	526	86	512
Hasper, Arend, Hull, N. D. Conveyer-belt	621,816	Mar. 28	2378	531	86	2002
Hasselmann, Fritz, Munich-Nymphenburg, Germany. Impregnating wood	626,538	June 6	583	------	87	1727
Hassenplug, Henry E. and W. B., Rochester, Ind. Grain-drill	633,196	Sept. 19	1872	441	88	2102
Hassenplug, William B. (See Hassenplug, Henry E. and W. B.)						
Hassis, Felix, Philadelphia, Pa. Eccentric	618,173	Jan. 24	2537	561	86	544
Hassis, Felix, Philadelphia, Pa. Faucet	620,124	Feb. 28	2439	551	86	1340
Hasson, John, assignor of one-half to J. F. Hevron, Philadelphia, Pa. Beer or other pipe cleaner	635,961	Oct. 31	3726	861	89	793
Hastings, Cornelius G., Chicago, Ill. Tunneling-shield	626,063	May 30	3897	885	87	1533
Hastings, D., *et al.* (See Morrison, Francis, assignor.)						
Hastings, James T., Chicago, Ill. Fishing-reel	625,166	May 16	2210	501	87	1166
Hastings, John C., Indianapolis, Ind. Cultivator	629,162	July 18	2266	525	88	478
Hastings, Owen, West, Miss. Wrench	620,772	Mar. 7	435	90	86	1586
Hastings, Walter W., Jersey City, N. J. Electric clock	618,670	Jan. 31	3446	769	86	733
Hat Holder and Novelty Company. (See Colclazer, Sarah E., assignor.)						
Hatcb, Edward P., La Grange, Ill. Taping device	629,074	July 18	2100	490	88	446
Hatch, Nathan. Albany N. Y. Undergarment	620,317	Feb. 28	2782	636	86	1406
Hatch, Thatcher C., Boston, Mass. Automatic damper	622,851	Apr. 11	1206	280	87	248
Hatch, Walter P. (See Underwood, Herbert G., assignor.)						
Hatch, Walter P., and F. W. Hillard, New York, N. Y., assignors to Elliott & Hatch Book-Typewriter Company, of New York. Type-writer	620,125	Feb. 28	2441	552	86	1341
Hatch, Washington S., *et al.* (See Kelsey, Henry O., assignor.)						
Hatcher, James D., assignor to Hatcber Novelty Co., Minneapolis, Minn. Plaiting-machine	625,761	May 30	3275	742	87	1417
Hatcher, James P., assignor of one-half to G. Henkle, Huntington, W. Va. Side bearing for railway-cars	638,240	Dec. 5	65	15	89	1879
Hatcher Novelty Co. (See Hatcher, James D., assignor.)						
Hatfield, Charles H., Des Moines, Iowa. Gas-fixture	622,224	Apr. 4	48	11	87	12

Alphabetical list of patentees—Continued.

Name, residence, and invention.	No.	Date.	Monthly volume.		Official Gazette.	
			Spec.	Dr'g.	Vol.	Page.
Hatfield, James H., Kalamazoo, and E. M. Brigham, Battle Creek, Mich. Corset steel and clasp	632,489	Sept. 5	510	116	88	1808
Hatfield, John, New York, N. Y. Driving attachment for wire cables	636,138	Oct. 31	4101	939	89	869
Hatfield, Rodolph. (See Schmitt, Phillip L., assignor.)						
Hathaway, Charles W., assignor to Triumph Cycle Company, Limited, Coventry, England. Velocipede	629,293	July 18	2480	578	88	517
Hathaway, Edgar F. (See Carleton and Hathaway.)						
Hathaway, George M., New York, assignor to M. C. Arnot, Elmira, N. Y. Detonating compound	622,800	Apr. 11	1107	257	87	229
Hathaway, James F., Somerville, Mass. Picture-frame	619,743	Feb. 21	1746	399	86	1193
Hathaway, Selim D., Coldwater, Mich. Gate	629,360	July 25	2620	609	88	564
Hathorn, George H., Bangor, Me. Gaging-machine for spherical bodies	626,539	June 6	585	135	87	1727
Hatten, Alvin, *et al.* (See Hood, Hiram Q., assignor.)						
Hatter, Henry, New York, N. Y. Cultivator for cranberry-vines	621,527	Mar. 21	1833	407	86	1880
Hattersley, John T., Newark, N. J., assignor to Alberene Stone Company, New York, N. Y. Washtub	633,647	Sept. 26	2736	637	88	2283
Hattingen, Gustav, Sinzig, Germany. Apparatus for applying powder in manufacturing artificial stone	628,317	July 4	704	163	88	135
Hatton, Thomas H., assignor of one-half to J. F. Kennedy, Muncie, Ind. Device for uncoupling clutch-couplings	627,301	June 20	2000	440	87	2042
Haueis, August, Erfurt, Germany. Mechanical figure	624,799	May 9	1553	354, 355	87	1026
Hauenstein, Charles. (See Saup and Hauenstein.)						
Hauenstein, Godfrey. (See Marcum and Hauenstein.)						
Hauenstein, Wesley W., Chicago, Ill. Curtain-hanger	625,503	May 23	2815	641	87	1308
Hauerwas, Edgar A., Saratoga Springs, assignor of one-half to C. D. Hammond, Altamont, N. Y. Air-brake	618,204	Jan. 24	2585	571	86	554
Hauff, Firm of J. (See Bogisch, Alfred, assignor.)						
Hauff, Isaac F., Temple, Tex. Thill-coupling	624,329	May 2	708	157	87	836
Hauger, Wilford A., Pax, Mo. Combination-tool	639,566	Dec. 19	2548	584	89	2402
Haugh, William S., *et al.* (See Le Pontois, Léon, assignor.)						
Haupt, Emil H., New York, N. Y. Bicycle-tire armor	620,705	Mar. 7	310	63	86	1561
Haupt, Robert. (See Hester and Haupt.)						
Hausburg, Otto E., New York, N. Y. Street-car speed-indicator	622,351	Apr. 4	262	60	87	50
Hauskey, Ole R., Lake Preston, S. D. Merry-go-round	616,923	Jan. 3	116	26	86	24
Hausmann, Bernard, San Francisco, Cal. Slidable and swinging window-sash	632,411	Sept. 5	361	82	88	1777
Hausmann, Bernard, San Francisco, Cal. Slidable and swinging window-sash	635,437	Oct. 24	2752	630	89	591
Hausmann, Caspar F. (See Weyland, Jakob, assignor.)						
Hausmann, Fred. (See Beauregard, Hausmann, and Gooding.)						
Haussmann, Emil. (See Kirchhoff and Haussmann.)						
Havens, Allen, *et al.* (See Holden and Fielder, assignors.)						
Haverly, Elmer J., Sayre, Pa. Roller-pin fastening for watches	669,698	Dec. 19	2794	644	89	2451
Haverstick, John, Philadelphia, Pa. Composition for floor-coverings, &c	619,019	Feb. 7	426		86	893
Havnar, Samuel, Painesville, Ohio. Surgical table	620,318	Feb. 28	2783	636	86	1406
Hawes, Franklin, Boston, Mass. Faucet	618,227	Jan. 24	2624	580	86	561
Hawes, Franklin, Boston, Mass. Cleat for securing halyards, &c	626,230	June 6	26	6	87	1620
Hawes, George E. (See Doolittle, James E., assignor.)						
Hawes, Herbert E., assignor to Colby & Co., New York, N. Y. Buttonhole-sewing machine	620,706	Mar. 7	312	63	86	1562
Hawes, J. Austin, *et al.* (See Branson, Joseph, assignor.)						
Hawes, Winfield S., Anaconda, Mont. Box-lid support	619,826	Feb. 21	1901	433	86	1224
Hawke, Thomas, Auckland, New Zealand. Rotary subsoil attachment for plows	620,919	Mar. 14	708	156	86	1652
Hawken, Thomas. (See Young and Magune, assignors.)						
Hawken, Thomas, Rockland, Me. Water-guard for trolley ropes or poles	622,225	Apr. 4	49	12	87	13
Hawkes, Daniel W., Deering, Me. Dish-cleaner	631,960	Aug. 29	4124	928	88	1595
Hawkes, Fred C., Springfield, Mass. Adjustable hacksaw-frame	637,462	Nov. 21	2384	516	89	1437
Hawkes, Henry, assignor of one-half to R. Van Buren, New York, N. Y. Device for connecting house service-pipes with water-mains	633,959	Sept. 26	3278	764	88	2392
Hawkes, William H., Ann Arbor, Mich. Gravity-machine	625,674	May 23	3102	706	87	1365
Hawkesworth, Arthur L., Elkhorn, Mont. Metallic packing for piston-rods	617,809	Jan. 17	1824	407	86	395
Hawkins, Augustus L. (See Walters, Davis, and Hawkins.)						
Hawkins, Lorenzo P., Deering, Me. Match-machine	632,900	Sept. 12	1323	304	88	1982
Hawkins, Lorenzo P., Deering, Me. Match-machine	632,901	Sept. 12	1325	304, 305	88	1983
Hawkins, William J., and R. H. Wright, Partington, England. Means for advertising	620,033	Feb. 21	2273	515	86	1294
Hawkins, William L., assignor of one-half to H. D. Wall, Brumley, Mo. Transplanter	621,302	Mar. 14	1424	314	86	1790
Hawkins, William T. (See Griffiths, Thomas, assignor.)						
Hawkins, William T., Fishkill, N. Y. Bottle-washing machine	636,985	Nov. 14	1456	314, 315	89	1241
Hawkins, Zachariah, Greersville, Ohio. Wagon-brake	630,692	Aug. 8	1832	413	88	1092
Hawkinson, Carl F., *et al.* (See Ostad and Welta, assignors.)						
Hawkinson, Magnus, *et al.* (See Ostad and Welta, assignors.)						
Hawks, Moses L., Chicago, Ill. Frame for neckties	631,714	Aug. 22	3684	826	88	1499
Hawle, John W., and J. M. Finley, Searcy, Ark. Nut-lock	619,255	Feb. 7	863	189	86	981
Hawley Down Draft Furnace Company. (See Hawley, Melville C., assignor.) (Reissue.)						
Hawley, Erwin D. (See Eu Earl, William J., assignor.)						
Hawley, Irad, East Orange, N. J. Tooth-powder box	635,135	Oct. 17	2157	503	89	460
Hawley, John S., Jr., New York, N. Y. Tip for crutches, canes, &c	624,207	May 2	482	103	87	792
Hawley, Louis D. (See Waters, Charles P., assignor.)						
Hawley, Mary M., Huntington, Ind. Douche-mat	628,582	July 11	1192	278	88	249
Hawley, Melville C., St. Louis, Mo., assignor to Hawley Down Draft Furnace Company, Chicago, Ill. Furnace. (Reissue)	11,793	Dec. 12	1869	430, 431	89	2250
Hawley. W. G. (See Bates, Francis C., assignor.)						
Haworth, Amanda J. (See Kelly, Clarence E., assignor.)						
Haworth, George D., Chicago, Ill. Seeding-machine	627,116	June 20	1674	366, 367	87	1976
Haworth, Lysander L., Decatur, Ill. Grain-drill	633,960	Sept. 26	3278	764	88	2392
Hawthorn, Carrie A. (See Rickman, Franklin E., assignor.)						
Hawthorne, John. (See Gilmore, George, assignor.)						
Hawthorne, William A., Carson, Nev. Window-sash lock	628,267	July 4	588	139	88	114
Hawthorne, William A., Chittenden, Cal. Mortuary monument	631,890	Aug. 29	4003	896	88	1572
Hay, Florence B., Washington, D. C. Pin	635,249	Oct. 17	2341	546	89	495
Hay, James R. (See Carryl, Nathan F., assignor.)						
Hay, John D., and B. M. Bullock, Plymouth, Ind. Gas-engine	632,814	Sept. 12	1159	265, 266	88	1952
Hay, Moritz. (See Orosz, Louis M., assiguor.)						
Hay, Peter D., assignor to Detroit Sanitary Supply Company, Detroit, Mich. Mold for casting waste-traps	617,396	Jan. 10	1039	236	86	221

Alphabetical list of patentees—Continued.

Name, residence, and invention.	No.	Date.	Monthly volume. Spec.	Monthly volume. Dr'g.	Official Gazette. Vol.	Official Gazette. Page.
Hay, Peter D., assignor to Detroit Sanitary Supply Company, Detroit, Mich. Mold for casting waste-traps	630,884	Aug. 15	2157	490	88	1181
Hay, Thomas A. H., *et al.* (See Reynolds, Stephen G., assignor.)						
Hay, Walter, Seville, Ohio, assignor of one-half to E. M. Hotchkiss, Waterbury, Conn. Motion-converting mechanism	624,931	May 16	1816	407	87	1093
Hay, Walter, Seville, Ohio, assignor of one-half to E. M. Hotchkiss, Waterbury, Conn. Expansible lubricating-piston	626,611	June 6	697	161	87	1750
Hay, Walter, Seville, Ohio, assignor of one-half to E. M. Hotchkiss, Waterbury, Conn. Vaporizer for gas-engines	635,166	Oct. 17	2204	514	89	470
Hay, William, New York, N. Y. Safety elevator-brake	623,663	Apr. 25	2692	617	87	573
Hay, William J., Oshkosh, Wis. Skirt-binding	634,264	Oct. 3	554	138	89	111
Hay, William O., *et al.* (See Reynolds, Stephen G., assignor.)						
Hay & Willits Manufacturing Company. (See Willits, Van Burton, assignor.)						
Hayden, D. J., *et al.* (See Woods, Fred M., assignor.)						
Hayden, G. F. (See Sims, Andrew M., assignor.)						
Hayden, George W., Oak Park, Ill., assignor, by mesne assignments, to Westinghouse Air Brake Company, of Pennsylvania. Triple-valve mechanism	620,126	Feb. 28	2444	553	86	1342
Hayden, Japhan J., Riverdale, Nebr. End-gate for wagons	618,090	Jan. 24	2361	527	86	512
Hayden, Norman L., New York, N. Y. Feed-water purifier	631,571	Aug. 22	3438	777	88	1452
Hayden, Norman L., and A. Wildman, Chicago, Ill. Locomotive-water purifier	619,303	Feb. 14	962	218	86	1017
Hayden, Randolph, Haddam, Conn. Bicycle-rack	627,751	June 27	2872	627	87	2232
Haye, August, San Antonio, Tex. Liquid-dispensing apparatus	624,208	May 2	483	104	87	792
Hayes, Calvin Q., Grand Forks, N. D. Steam-generator	626,163	May 30	4123	939	87	1575
Hayes, Charles J. W., Detroit, Mich. Tripod-head	630,219	Aug. 1	903	199	88	900
Hayes, Charles J. W., Detroit, Mich. Tripod	630,220	Aug. 1	905	199	88	901
Hayes, Charles J. W., Detroit, Mich. Tripod-head	630,221	Aug. 1	907	199	88	901
Hayes, Charles M., Birmingham, Ala. Implement for inserting paper-fasteners	633,242	Sept. 19	1974	463	88	2123
Hayes, Charles W. (See Popham, Richard M., assignor.)						
Hayes, Eugenio K., Galva, Ill. Hand-cart	627,261	June 20	1928	425	87	2027
Hayes, Eugenio K., Galva, Ill. Wagon-box	627,262	June 20	1929	425	87	2028
Hayes, Frank G., Chicago, Ill. Elevator	620,585	Mar. 7	60	12	86	1514
Hayes, Fred, Bristol, Tenn., and H. L. Frost, Bristol, Va. Compressed-air water-elevator	628,318	July 4	705	164	88	135
Hayes, George, New York, N. Y. Wheel for bicycles	617,743	Jan. 17	1673	377	86	365
Hayes, George, New York, N. Y. Fire-resisting window	626,698	June 13	879	200	87	1804
Hayes, Henry J. (See Godfrey and Hayes.)						
Hayes, Lurelle G., Davenport, Iowa. Latch	625,504	May 23	2816	642	87	1308
Hayes, Meritt E., Leicester, N. C. Mowing-machine	637,932	Nov. 28	3626	760	89	1743
Hayes, Timothy, Cincinnati, Ohio. Means for gaining dry feed from distillery-slop	625,762	May 30	3278	743	87	1418
Hayes, Will L. (See Page, George O., assignor.)						
Hayes, William, Pawtucket, R. I. Strainer	634,455	Oct. 10	918	219	89	201
Hayes, William J., Lansingburg, N. Y. Hat-fastener	626,379	June 6	317	73	87	1675
Hayles, Frederick P., New York, N. Y. Ventilator	631,042	Aug. 15	2463	557	88	1241
Hayne, Elisha, Mount Pleasant, Ohio. Fruit-jar closure	632,567	Sept. 5	660	153	88	1837
Hayne, Louis, New York, N. Y. Easel-bracket	635,542	Oct. 24	2936	671	89	628
Hayner, George M. (See Fornander, Alfred, assignor.)						
Haynes, Albert, Sr., Ezzell, assignor of one-half to J. W. Hinch, Lavaca county, Tex. Plow-handle	622,850	Apr. 11	1205	280	87	248
Haynes, Edward M. (See De Yarmett and Haynes.)						
Haynes, Henrietta L., Boston, Mass. Coin-holder	633,839	Sept. 26	3061	711	88	2350
Haynes, Thomas A. (See Gallagher and Haynes.)						
Haynes, Thomas A., New York, N. Y. Making casein cement	619,040	Feb. 7	463	------	86	900
Hayot, Flavius, Paris, France. Motor-engine	623,713	Apr. 25	2775	635	87	588
Hays, James T. and T. C., Emmetsburg, Md. Acetylene-gas machine	627,926	June 27	3183	697	87	2295
Hays, James T., and G. L. Depuy, Garland, assignors of one-fifth to T. S. Walker, Dallas county, Tex. Rotary engine	630,693	Aug. 8	1832	413	88	1092
Hays, Thomas C. (See Hays, James T. and T. C.)						
Hayward, Frank W., Norwich, England. Advertising device	623,664	Apr. 25	2693	617	87	573
Hayward, John W., Cleveland, Ohio. Manufacturing asphalt from petroleum residue	634,818	Oct. 10	1547	364	89	323
Hayward, Nathan, Brockton, Mass. Folding-machine	628,798	July 11	1611	371, 372	88	335
Haywood, William, assignor of one-half to A. Heiser, Philadelphia, Pa. Hydraulic motor	619,479	Feb. 14	1253	287, 288	86	1073
Hazard, Alexander. (See Stuart, Francis G., assignor.)						
Hazard, Schuyler, Fern Bank, Ohio. Metallic cross-tie for railway-tracks	626,612	June 6	698	161	87	1750
Hazard, Vincent G., assignor to Pusey & Jones Company, Wilmington, Del. Reel	638,012	Nov. 28	3787	796	89	1774
Hazard, William J., Golden, Colo. Buttonhole-scissors	630,455	Aug. 8	1409	315	88	1011
Hazel, William M., Philadelphia, Pa. Brick	628,799	July 11	1614	372	88	336
Hazell, William, Beloit, Wis. Puzzle	638,391	Dec. 5	392	82	89	1941
Hazeltine, Paul R., and W. W. Dodd, Los Angeles, Cal. Key-fastener	640,133	Dec. 26	3583	824	89	2629
Hazlewood, Peter L. (See Holt and Hazlewood.)						
Hazzard, Albert B., St. Louis, Mo. Automatic medicine-mixing and bottle-filling machine	622,420	Apr. 4	406	94	87	76
Head, M. M., *et al.* (See Rost, Clarence, assignor.)						
Head, Thomas W. (See Southwell and Head.)						
Head, Thomas W., assignor of one-half to H. & M. Southwell, Limited, Bridgenorth, England. Loom for weaving tufted fabrics	619,956	Feb. 21	2134	483, 484	86	1269
Head, W. F. (See Morgan, Russell T., assignor.)						
Headland, Henry W., *et al.* (See Robson, James T., assignor.)						
Headland, Henry W., London, England. Electric motor for driving motor-carriages, winches, or stationary machinery	634,979	Oct. 17	1842	436, 437	89	399
Headley, Harry K., East Liverpool, Ohio. Potter's tool	637,781	Nov. 28	3335	698	89	1683
Heady, George H., assignor of one-half to A. Solano, Los Angeles, Cal. Lock-mortising machine	629,294	July 18	2481	578, 579	88	517
Heald, Abner R., Auroraville, Wis. Expansion-drill	639,036	Dec. 12	1558	358	89	2190
Heald, James N. (See Heald, Leander S. and J. N.)						
Heald, John, Springfield, Mass. Cornet	620,450	Feb. 28	2996	685	86	1446
Heald, Leander S. and J. N., Barre, Mass.; said J. N. Heald assignor to said Leander S. Heald. Drill-grinding machine	630,536	Aug. 8	1563	348, 349	88	1040
Healey, Patrick J., Hyde Park, Mass. Sewer cleaning and exploring machine	636,526	Nov. 7	520	114, 115	89	1026
Healey, Robert W. (See Evans and Healey.)						
Healy, Clarence L., Newark, N. J. Printing-telegraph system	633,586	Sept. 26	2631	615	88	2263
Healy, John, New York, N. Y., assignor to American Chair Manufacturing Company, Brandt, Pa. Foot-rest for chairs	636,725	Nov. 7	907	201	89	1108
Healy, William J., Susquehanna, Pa. Balanced throttle-valve	625,555	May 23	2908	661	87	1327

Alphabetical list of patentees—Continued.

Name, residence, and invention.	No.	Date.	Monthly volume. Spec.	Monthly volume. Dr'g.	Official Gazette. Vol.	Official Gazette. Page.
Healy, William P. (See Rosback, Frederick P., assignor.)						
Heany, John A., Philadelphia, Pa. Wheel for vehicles	619,408	Feb. 14	1135	256, 257	86	1051
Heany, John A., Philadelphia, Pa. Wheel for vehicles	624,209	May 2	485	104	87	792
Heany, John A., Philadelphia, Pa. Currycomb	627,459	June 20	2324	512	87	2105
Heany, John A., assignor to J. W. Douglass, Philadelphia, Pa. Disinfecting apparatus	618,349	Jan. 24	2834	630	86	600
Heany, John A., assignor to J. W. Douglass, Philadelphia, Pa. Hand-stamp	622,043	Mar. 28	2803	632	86	2085
Heany, John A., assignor to J. W. Douglass, Philadelphia, Pa. Hand-stamp	624,020	May 2	123	28	87	726
Heany, John A., assignor to J. W. Douglass, Philadelphia, Pa. Hand-stamp	624,932	May 16	1817	408	87	1093
Heany, John A., assignor of one-half to W. L. Teter, Philadelphia, Pa. Hand-stamp	630,222	Aug. 1	909	199	88	902
Heany, John A., assignor of two-thirds to W. W. R. and G. W. Hanley, Philadelphia, Pa. Nipple	633,343	Sept. 19	2172	510	88	2161
Heaphy, Leonard, assignor of one-half to J. I. Monks, Watertown, S. D. Potato-planter	633,840	Sept. 26	3062	711	88	2350
Heard, Richard W., and R. A. L. Snyder, Swissvale, Pa. Subdividing laminated material	621,410	Mar. 21	1608	356, 357	86	1838
Hearing, Samuel D., Nelsonville, Ohio. Device for producing duplicate manuscript	627,414	June 20	2246	495	87	2090
Hearn, John W., New York, N. Y. Electric switch	631,791	Aug. 29	3846	857	88	1540
Hearnden, Robert W., Maidstone, England. Combined cycle mud and dress guard	618,939	Feb. 7	237	54	86	850
Hearne, John, New York, N. Y., and C. Lawson, Boston, Mass. Diaphragm for gas-meters	618,350	Jan. 24	2835	630	86	601
Hearns, Robert, St. Paul, Minn. Detachable car-fender	628,003	July 4	86	17	88	18
Hearnshaw, J. F. (See Alfson, Andrew, assignor.)						
Hearsey, Henry T., *et al.* (See Plummer, Horace Q., assignor.)						
Hearson, Thomas A., and W. T. Shaw, assignors to Automatic Brake Syndicate, (Gardner's Patents,) Limited, London, England. Back-pedaling brake	632,460	Sept. 5	458	102, 103	88	1797
Hearst, John J., Newburg, N. Y. Nailless horseshoe	624,650	May 9	1285	287	87	971
Heaston, John, Nashville, Tenn. Baling-press	627,460	June 20	2325	512	87	2106
Heath, Alfred R., Covington, Ind. Car-coupling	634,341	Oct. 3	716	170	89	144
Heath, Charles. (See Hughes, Thomas W., assignor.)						
Heath, Edward H. (See Marks, Albert, assignor.)						
Heath, Frank E. (See Ernst, Clare, assignor.)						
Heath, Frederick H., Tacoma, Wash. Ball-bearing	637,204	Nov. 14	1895	407	89	1324
Heath, Frederick H., Tacoma, Wash. Ball-bearing for cycles	637,205	Nov. 14	1896	407	89	1324
Heath, Frederick H., Tacoma, Wash. Ball-bearing	637,206	Nov. 14	1897	408	89	1324
Heath, George A., Waupun, Wis. Seed-cup	624,021	May 2	124	28	87	726
Heath, George B., San Francisco, Cal. Electric track and wheel brake	625,300	May 16	2455	558	87	1213
Heath, George B., San Francisco, Cal. Coin-controlled telephone-call apparatus	635,852	Oct. 31	3522	810	89	754
Heath, George S. (See Severy and Heath.)						
Heath, James S., Toronto, Canada. Seeding and fertilizing machine	629,994	Aug. 1	497	108, 109, 110, 111	88	821
Heath, John R., Stoke-upon-Trent, England. Cycle or other road-vehicle	622,044	Mar. 28	2804	632	86	2085
Heath, John T., Bradford, Vt. Harness-terret	625,107	May 16	2122	482	87	1150
Heatley, Almeda N., Defiance, Ohio. Pillow-sham holder	631,305	Aug. 22	2939	665	88	1352
Heaton, John W., Chattanooga, Tenn., assignor to B. D. Whitney, Winchendon, Mass. Journal-box	639,384	Dec. 19	2219	514	89	2337
Heaton, Ryan, Sandy Hook, Conn., assignor to United States Rubber Company, of New Jersey. Knit boot	625,331	May 23	2524	------	87	1252
Heaton, William, Allerton, Ill. Cattle-shed	624,330	May 2	709	157	87	836
Heavey, Bernard C., deceased, (M. Heavey, administratrix,) assignor of forty-nine one-hundredths to S. T. White and J. Flaherty, Chicago, Ill. Furnace	635,318	Oct. 24	2470	574, 575	89	537
Heavey, Maria, administratrix. (See Heavey, Bernard C.)						
Hebard, Charles, Pequaming, Mich. Portable baling device	622,950	Apr. 11	1378	317	87	281
Hebard, Charles S. (See Brink, Benjamin, assignor.)						
Hebb, John A., Brownsfield, Pa. Coke-drawer	621,663	Mar. 21	2076	463, 464	86	1930
Heberer, Adam, Alameda, Cal. Method of and apparatus for burning coal in furnaces without smoke	627,060	June 13	1571	343	87	1937
Heberlein, Eduard, Wattwil, Switzerland. Machine for mercerizing	624,800	May 9	1557	355	87	1027
Heberling, Squire, assignor of one-half to H. W. Parker, Des Moines, Iowa. Combined minnow bucket and trap	616,924	Jan. 3	117	26	86	24
Hebert, Adam O., Adeline, La. Reversible day-book	633,514	Sept. 19	2463	580	88	2217
Hebert, Arsene, assignor to G. J. P. Frechette, Manchester, N. H. Lasting-hammer	620,650	Mar. 7	203	42	86	1541
Hebert, Joseph O., Watertown, Wis. Trundle toy	638,241	Dec. 5	66	16	89	1879
Hébert, Ludger, Plamondon's Mills, Canada. Door-check	620,920	Mar. 14	709	157	86	1653
Hecht, August J. (See Vivinus and Hecht.)						
Hecht, Felipe, Geneva, Switzerland. Watch-plate	638,510	Dec. 5	616	127	89	1984
Hechtle, Carl, Hanau, Germany. Mechanical movement	621,247	Mar. 14	1321	293	86	1770
Heck, Julius P., Pittsfield, Ill. Nest-box	635,932	Oct. 31	3677	848	89	784
Heckford, Clarence R., Oaken, England. Lock and latch case	634,688	Oct. 10	1323	313	89	280
Heckman, Fred. (See Kramer, Heckman, and Synck.)						
Heckman, Harriet V., assignor of one-half to W. I. Denison, Albany, N. Y. Skirt-supporter	639,173	Dec. 12	1792	415	89	2236
Heckman, Jacob. (See Cole, Leander L., assignor.)						
Heckman, Jesse M., Union, Ohio. Plow	630,052	Aug. 1	611	133	88	844
Heckscher, August, *et al.* (See Schroeder, Max, assignor.)						
Heda, Frank J., Tecumseh, Nebr. Animal-trap	619,175	Feb. 7	724	157	86	953
Hedberg, Peter L., Chicago, Ill. Weather-strip	626,492	June 6	506	118	87	1711
Hedge, Hendley E., Lakin, Kans. Pump	631,464	Aug. 22	3220	731	88	1408
Hedgeland, Frederick W., Chicago, Ill. Acetylene-gas-generating lamp	624,022	May 2	125	28	87	726
Hedgeland, Frederick W., Chicago, Ill. Burner-cleaner attachment for gas-lamps	624,210	May 2	486	104	87	792
Hedgeland, Frederick W., Chicago, Ill. Mechanism for driving music-sheets of self-playing instruments	629,361	July 25	2623	609	88	565
Hedgeland, Frederick W., assignor to W. W. Kimball Company, Chicago, Ill. Self-playing device for organs	628,535	July 11	1104	257, 258	88	233
Hedgeland, Frederick W., assignor to W. W. Kimball Company, Chicago, Ill. Crescendo and diminuendo device for organs	628,937	July 18	1860	431	88	399
Hedgeland, Frederick W., assignor to W. W. Kimball Company, Chicago, Ill. Perforating-machine	638,242	Dec. 5	67	16, 17	89	1880
Hedgeland, Frederick W., assignor to W. W. Kimball Company, Chicago, Ill. Means for controlling registration of self-playing organs	638,709	Dec. 12	996	222	89	2080
Hedges, Edward, Boston, assignor to W. Mitchell, Malden, Mass. Gasolene-heated implement	631,368	Aug. 22	3046	690	88	1374
Hedges, Samuel P., Greenport, N. Y. Bicycle-path or sidewalk leveler and roller	620,034	Feb. 21	2275	516	86	1295
Hedges, William E., Polk, Ark. Seed-planter	636,527	Nov. 7	523	115	89	1027

Alphabetical list of patentees—Continued.

Name, residence, and invention.	No.	Date.	Monthly volume. Spec.	Monthly volume. Dr'g.	Official Gazette. Vol.	Official Gazette. Page.
Hedrick, Clarence E. (See Horner and Hedrick.)						
Hedrick, Elias. (See Mudd and Hedrick.)						
Hedrick, George W., Dayton, Va. Steam-washer	633,587	Sept. 26	2634	615	88	2264
Heen, Gustav O., Maynard, Minn. Water-motor	627,117	June 20	1676	367, 368	87	1977
Heenan, James, Guffey, Pa. Automatic grip for cable-roads	628,711	July 11	1447	336	88	301
Heergeist, Charles W., assignor of one-half to C. H. Royal, Philadelphia, Pa. Forming metallic signs with intaglio letters or characters	633,315	Sept. 19	2125	------	88	2152
Heermans, Thaddeus W., Evanston, and N. Whichello, assignors to J. A. Roche, Chicago, Ill. Electric elevator	622,355	Apr. 4	270	62	87	52
Heermans, Thaddeus W., Evanston, and N. Whichello, assignors to J. A. Roche, Chicago, Ill. Electric elevator	622,430	Apr. 4	409	94, 95, 96	87	76
Heerwagen, Paul M., Little Rock, Ark. Rein-guard	639,727	Dec. 26	2847	656	89	2479
Heffernan, Edward F., Toronto, Canada. Stem winding and setting watch	621,664	Mar. 21	2078	464	86	1930
Heffner, Joseph D., J. J. Allen, and W. Collier, Lexington, Ky. Pocket-protector	631,744	Aug. 22	3744	840	88	1510
Heft, Daniel, Philadelphia, Pa. Water-heater	637,868	Nov. 28	3516	735	89	1720
Hegan, Edwin C., Louisville, Ky. Recording apparatus	638,579	Dec. 5	733	157, 158, 159	89	2007
Hegarty, Reuben, Bigler, assignor of one-third to P. T. Davis, Clearfield, Pa. Router	637,463	Nov. 21	2385	516	89	1437
Hegel, Henry, St. Louis, Mo. Latch	618,091	Jan. 24	2362	527	86	513
Hegeler, Edward C., La Salle, Ill. Gas-producer for metallurgical plants	630,885	Aug. 15	2158	491	88	1181
Heggie, Robert, Jr., Kirkcaldy, Scotland. Apparatus for weaving figured fabrics	621,776	Mar. 21	2300	517	86	1972
Hegstad, Ole E., Hegbert, Minn. Extension-ladder and truck	626,277	June 6	105	27, 28, 29	87	1634
Hegstedt, Edward, Jamestown, N. Y. Horseshoe-plate	623,150	Apr. 18	1774	408	87	373
Heib, William, Akron, Ohio. Eaves-trough hanger	623,369	Apr. 18	2173	499	87	453
Heid, Eugene B. (See Greb and Heid.)						
Heid, John M., Hyde, Ind. Wagon-brake	635,250	Oct. 17	2342	547	89	495
Heidel, Gustavos, assignor to Globe Electric Company, St. Louis, Mo. Electric-lighting apparatus for vehicles	636,429	Nov. 7	342	77	89	990
Heidel, Gustavos, assignor to Globe Electric Company, St. Louis, Mo. Electric-lighting apparatus for vehicles	638,511	Dec. 5	617	128	89	1984
Heidel, Gustavos, assignor to Globe Electric Company, St. Louis, Mo. Electric-arc lamp	638,512	Dec. 5	618	128	89	1984
Heidel, Gustavos, assignor to Globe Electric Company, St. Louis, Mo. Dynamo-electric machine or electric motor	638,635	Dec. 5	843	183	89	2028
Heidelberg, Augustus C., Chicago, Ill. Rail-joint and forming same	620,071	Feb. 21	2335	530	86	1306
Heidelberg, Augustus C., Chicago, Ill. Forming rail-joints	620,072	Feb. 21	2338	530	86	1307
Heidt, Allen P., Bay Shore, N. Y. Sash-lock	634,213	Oct. 3	431	110	89	90
Heidt, Louis, New York, N. Y. Mold for prism-tiles	618,671	Jan. 31	3449	769	86	734
Heidt, Wesley, San Francisco, Cal. Metallic roofing	626,006	May 30	3791	863	87	1516
Heil, Alexander, Reading, Pa. Furnace	621,665	Mar. 21	2080	465	86	1930
Heilmann, Jean J., Paris, France. Electric propulsion of railway, tramway, or other similar vehicles	622,144	Mar. 28	2989	675, 676	86	2123
Heilmann, Jean J., Paris, France. Electric railway or tramway	622,466	Apr. 4	486	114	87	90
Heilmann, John. (See Kalamaikowski, Stanislaus, assignor.)						
Heilprin, Angelo, Philadelphia, Pa. Supplemental car-step	634,618	Oct. 10	1203	285	89	256
Heimann, Heinrich. (See Herzberg and Heimann.)						
Heimerdinger, William C., Louisville, Ky. Shears	630,537	Aug. 8	1567	349	88	1041
Heimerdinger, William C., Louisville, Ky. Apparatus for making shears	631,163	Aug. 15	2676	605	88	1282
Heimlich, George, Syracuse, N. Y. Rotary album	623,603	Apr. 25	2594	593	87	555
Heimlich, John, Oak Harbor, assignor of one-half to H. Lilly, Rocky Ridge, Ohio. Device for propelling bicycles	621,666	Mar. 21	2083	465, 466	86	1931
Heimsoth, Wilhelm, and A. Flügge, Hanover, Germany. Manufacturing building-blocks	639,037	Dec. 12	1560	------	89	2191
Hein, Adolf, Hagen, Germany. Surveying or astronomical instrument	622,045	Mar. 28	2805	633	86	2085
Hein, Fredrick, Olean, N. Y. Alarm-bell	634,727	Oct. 10	1405	331	89	297
Heindel, Charles H., Glen Rock, Pa. Tension device for loom-shuttles	627,263	June 20	1931	426	87	2029
Heine, Alfred N. (See Woerner and Heine.)						
Heine, August J., Wahpeton, N. D. Band-cutter and feeder	624,023	May 2	126	28, 29	87	727
Heine, August J., Wahpeton, N. D. Band-cutter and feeder	624,024	May 2	133	30	87	728
Heineke, Grace T., Birmingham, Ala. Dress-guard for bicycles	620,651	Mar. 7	204	42	86	1541
Heineke, Martin, Springfield, Ill. Straw-stacker	618,092	Jan. 24	2363	527	86	513
Heineke, Martin, Springfield, Ill. Straw-stacker	631,043	Aug. 15	2464	558	88	1241
Heineman & Co., S. (See Morrow, Charles B., assignor.)						
Heinemann, Albert, Berlin, Germany. Preserve-jar	639,038	Dec. 12	1561	358	89	2191
Heinemann, Arthur, and W. Schäfer, Berlin, Germany. Storage battery	635,774	Oct. 31	3362	777, 778	89	723
Heinemann, Emil D., assignor to Titan Fastener Company, Chicago, Ill. Machine for inserting and setting lace-fasteners	626,699	June 13	881	201	87	1804
Heinemann, Emil D., and J. S. Goldberg, assignors to Titan Fastener Company, Chicago, Ill. Automatic machine for feeding, inserting, and setting lace-fasteners	626,700	June 13	883	201, 202	87	1804
Heinen, Charles J., assignor to Laboratoires Sauter, Société Anonyme, Geneva, Switzerland. Sterilizing water	636,986	Nov. 14	1460	------	89	1242
Heinle, Albert G., assignor of one-fourth to J. Schmid, McKee's Rocks, Pa. Socket-welding machine	635,097	Oct. 17	2075	488	89	446
Heinle, Robert, Lockport, N. Y. Expansible pulley	623,246	Apr. 18	1939	444, 445	87	406
Heinrich, Hermann, Döllnitz, Germany. Grain-scourer	635,480	Oct. 24	2829	645	89	607
Heinrich, Richard O., Berlin, Germany, assignor to Weston Electrical Instrument Company, Newark, N. J. Standard voltaic cell	631,044	Aug. 15	2466	558	88	1241
Heinsen, Nicholas, *et al.* (See Leineweber, Herman, assignor.)						
Heintz, Charles B., Cleveland, Ohio. Differential pressure-gage	638,052	Nov. 28	3851	809	89	1786
Heintzelman, Taylor W., Sacramento, Cal. Locomotive ash-pan	620,707	Mar. 7	313	64	86	1562
Heintzelman, Taylor W., Sacramento, Cal. Locomotive ash-pan	634,728	Oct. 10	1406	332	89	297
Heinz, Frank, Grand Rapids, Mich. Lawn-mower	635,889	Oct. 31	3608	831	89	772
Heinz, Johann. (See Heinz, Philipp and J.)						
Heinz, Julius A., Springfield, Mass. Washer-cutter	633,316	Sept. 19	2126	498	88	2152
Heinz, Philipp and J., Pforzheim, Germany. Soldering-lamp	620,127	Feb. 28	2446	553	86	1342
Heinze, John, Jr., Revere, assignor to Simplex Electrical Company, Boston, Mass. Circuit-controlling device	635,319	Oct. 24	2473	575	89	537
Heinze, Otto B., Baltimore, Md. Manufacture of mantles or incandescing elements for gas-burners	632,349	Sept. 5	252	------	88	1757
Heinzelman, Reginald, Belleville, Ill. Vehicle-door	630,223	Aug. 1	910	200	88	902

Alphabetical list of patentees—Continued.

Name, residence and invention.	No.	Date.	Monthly volume.		Official Gazette.	
			Spec.	Dr'g.	Vol.	Page.
Heinzerling, Christian, Frankfort-on-the-Main, Germany. Treatment of old or waste vulcanized rubber	627,689	June 27	2760		87	2208
Heiser, Aaron. (See Haywood, William, assignor.)						
Heissenberger, John, New York, N. Y. Automatic picture-exhibitor	624,801	May 9	1558	355, 356, 357	87	1027
Heithersay, James S. (See Draper, James T., assignor.)						
Heitmann, Henry, Miamisburg, Ohio. Tripod	633,284	Sept. 19	2047	481	88	2136
Helberger, Hugo, Thalkirchen, Germany. Electric resistance	636,203	Oct. 31	4213	969	89	892
Helbig, Albin B., Warstade Hemmoor, Germany. Feed-regulator	639,897	Dec. 26	3155	726	89	2539
Helbing, Heinrich, London, England, and G. Pertsch, assignors to La Société Chimique des Usines du Rhône, Anciennement Gilliard, P. Monnet et Cartier, Lyons, France. Collodion mixture	628,463	July 11	960		88	204
Held, Alfred G., and E. Poehnert, Rockville, Conn. Loom-temple	639,039	Dec. 12	1562	358	89	2191
Held, August S., assignor to Stover Manufacturing Company, Freeport, Ill. Box-handle	624,025	May 2	137	31	87	729
Held, August S., assignor to Stover Manufacturing Company, Freeport, Ill. Spring-hinge	625,929	May 30	3602	819	87	1479
Held, August S., assignor to Stover Manufacturing Company, Freeport, Ill. Box-handle	630,886	Aug. 15	2161	491	88	1182
Held, Gustave. (See Japiot, Joseph, assignor.)						
Hellbardt, William, Roschenen, and O. Gerhardt, Oberschönweide, Germany. Apparatus for marking cattle	624,026	May 2	138	31	87	729
Heller, Adam, Baltimore, Md. Gas-burner	621,248	Mar. 14	1323	294	86	1771
Heller, Aller & Co. (See Aller, Edward W., assignor.)						
Heller, John, High Ridge, Mo. Wagon-brake	616,925	Jan. 3	118	26	86	25
Helling, Julius J., Union, Mo. Ditch-grader	628,800	July 11	1615	372	88	336
Hellinger, Moritz. (See Lucke, Fritz, assignor.)						
Hellmann, Arthur. (See Stamm, Henry, assignor.)						
Hellmers, Henry J., Jr. (See Sicotte, Pierre, assignor.)						
Hellström, Bror O. V., Norrkjöping, Sweden. Post and bar applicable for telephone or telegraph poles, &c	623,714	Apr. 25	2776	635	87	589
Hellwig, Maurice, New York, N. Y. Brush-machine	622,768	Apr. 11	1052	244	87	220
Hellyar, Alfred B. (See Walker, Robert J. F., assignor.)						
Helmbold, Louis G., Bucyrus, Ohio. Harrow-frame	627,415	June 20	2248	495, 496	87	2090
Helmers, Ludwig O., assignor to Ichthyol Gesellschaft, Cordes, Hermanni & Co., Hamburg, Germany. Tasteless compound from sulfureted hydrocarbons and making same	624,027	May 2	139		87	730
Helmers, Ludwig O., assignor to Ichthyol Gesellschaft, Cordes, Hermanni & Co., Hamburg, Germany. Tasteless compound from sulfureted hydrocarbons and making same	624,028	May 2	141		87	730
Helmers, Ludwig O., assignor to Ichthyol Gesellschaft, Cordes, Hermanni & Co., Hamburg, Germany. Deodorized compound of mineral oils and making same	625,332	May 23	2525		87	1252
Helmick, Harry H., Minneapolis, Minn. Computing-machine	630,053	Aug. 1	613	133, 134, 135	88	844
Helms, Frederick W. (See Huster, Theodor, assignor.)						
Helms, James T., and R. A. Keller, Knoxville, Tenn. Water-heater	619,568	Feb. 14	1400	322	86	1102
Helt, Joseph. (See Rood and Helt.)						
Helton, Douglas E., Ogden, Ill. Gate	629,075	July 18	2101	491	88	447
Helwig, Anna, St. Paul, Minn. Pneumatic stay-bolt clipper	633,588	Sept. 26	2635	615	88	2264
Helwig, Rudolf, New York, N. Y. Filtering apparatus	620,451	Feb. 28	2998	686	86	1447
Hem, Halvor O., Kansas City, Kans. Hoop sizing and flaring machine	629,444	July 25	2774	645	88	597
Heman, Nickolaus A. (See Stoffel, William, assignor.)						
Hemleb, Martin. (See Diehl and Hemleb.)						
Hemleb, Martin, Elizabeth, N. J., assignor to Singer Manufacturing Company, of New Jersey. Sewing-machine ruffler	623,309	Apr. 18	2061	473	87	431
Hemenway, Justin S., River Falls, Wis. Inflating-valve	637,782	Nov. 28	3337	699	89	1684
Hemingway, Joseph, Spearfish, S. D., assignor to Universal Fuel Company, Chicago, Ill. Making coke	637,255	Nov. 21	1994	427	89	1359
Hemm, Charles W., Kendall, Ill. Wagon	617,157	Jan. 3	573	135	86	112
Hemming, Benjamin, New Haven, Conn. Firearm	618,033	Jan. 17	2229	497	86	473
Hemminger, Norman W. (See Cadwell, James, assignor.)						
Hemp, Lewis W., St. Louis, Mo. Stovepipe	620,452	Feb. 28	2999	686	86	1447
Hempel, Heinrich, Berlin, Germany. Producing carbonaceous agents for enriching spirits	621,338	Mar. 21	1494		86	1817
Hempel, Heinrich, Berlin, Germany. Producing luminous spirits	621,411	Mar. 21	1610		86	1839
Hemphill, James, Pittsburg, Pa. Valve for air-compressors	632,490	Sept. 5	511	117	88	1808
Hemphill, Joshua D., assignor of one-half to W. W. and F. W. Radcliffe, Shelton, Conn. Knitting-machine	629,503	July 25	2895	674, 675, 676	88	619
Hemphill, Robert H., Hattiesburg, Miss. Nut-lock	629,995	Aug. 1	506	111	88	823
Hempler, Henry H., Washington, D. C. Trial-frame and optometer therefor	628,801	July 11	1616	373	88	337
Hemstreet, John V., Herkimer, N. Y. File-box	627,189	June 20	1795	394	87	2001
Henault, Nellie O., Butte, Mont. Combination-tool	617,018	Jan. 3	297	66	86	60
Henay, William H., Cambridge, Mass. Mold for relief ornamentation	637,509	Nov. 21	2466	535	89	1452
Hencke, Heinrich, *et al.* (See Kaiser, Johannes, assignor.)						
Henckel, George, Cincinnati, Ohio, assignor to Bernheim Brothers, Louisville, Ky. Show or display card or label	635,098	Oct. 17	2076	488	89	446
Henckels, Theodore. (See Westall, Charles, assignor.)						
Henderson, Alfred J., Dallas, Tex. Fruit-steamer	636,528	Nov. 7	524	115	89	1027
Henderson, Archibald, Toronto, Canada. Insect ring-shield for trees	619,409	Feb. 14	1137	257	86	1051
Henderson, Charles L., assignor of one-half to M. E. Shantz, Berlin, Canada. Wrench	618,571	Jan. 31	3269	725	86	698
Henderson, George, and C. L. Hibbard, assignors of one-half to I. B. Smith and S. L. Dows, Jr., Cedar Rapids, Iowa. Bicycle-holder	618,507	Jan. 31	3156	697	86	677
Henderson, George K., Coshocton, Ohio. Shade-finder	624,331	May 2	711	158	87	836
Henderson, George R. (See Vauclain and Henderson.)						
Henderson, George R., Roanoke, Va. Two-cylinder compound locomotive	631,164	Aug. 15	2678	605	88	1282
Henderson, Henry F., Ames, Colo. Bicycle	639,567	Dec. 19	2548	585	89	2402
Henderson, Isaac, Vancouver, Canada. Vehicle-wheel	623,015	Apr. 11	1500	347	87	306
Henderson, James, assignor to Sheffield Car Company, Three Rivers, Mich. Carbureter	620,586	Mar. 7	61	12	86	1514
Henderson, James A. (See Morrison, Edgar H., assignor.)						
Henderson, James A. (See Williams and Kinney, assignors.)						
Henderson, James A. (See Woerner, Frank W., assignor.)						
Henderson, John C., New York, N. Y. Purifying and refining oils	619,020	Feb. 7	426	89	86	893
Henderson, John C., New York, N. Y. Steam-turbine	634,170	Oct. 3	345	88	89	71
Henderson, Marie P., New York, N. Y. Bed	639,234	Dec. 19	1925	443	89	2275
Henderson, Plummer J., Rochester, N. H. Vapor-heating system	623,715	Apr. 25	2777	635, 636	87	589

Alphabetical list of patentees—Continued.

Name, residence, and invention.	No.	Date.	Monthly volume. Spec.	Monthly volume. Dr'g.	Official Gazette. Vol.	Official Gazette. Page.
Henderson, Thomas, Buffalo, N. Y. Centrifugal machine	617,158	Jan. 3	574	135	86	112
Henderson, Thomas, and W. A. Stapp, assignors to Lone Star Acetylene Gas Company, Tyler, Tex. Acetylene-gas generator	629,855	Aug. 1	184	43	88	757
Henderson, Thomas J., assignor of one-half to C. Gross, St. Louis, Mo. Machine for re-opening bottle-seals	634,412	Oct. 3	832	201	89	166
Hendricks, Adam C., Martinsburg, W. Va. Back-pedaling brake	631,011	Aug. 15	2394	544 545	88	1227
Hendricks, Allan B., Red Hook, N. Y. Fruit-picker's basket	638,332	Dec. 5	278	57	89	1919
Hendricks, Arthur J., Crockett, N. Y. Telegraph-key attachment	619,410	Feb. 14	1138	257	86	1051
Hendricks, James M., Taylorville, Ill. Wagon-tongue	627,078	June 13	1595	349	87	1941
Hendricks, Thurn E., Austin, Ark. Bag-catcher for postal cars	637,962	Nov. 28	3678	773	89	1753
Hendricks, William E., Cairo, Ill. Top for cake-pans	635,320	Oct. 24	2476	575	89	537
Hendrickson, Abram A., New York, N. Y. Exercising-machine	620,453	Feb. 28	3000	686	86	1447
Hendrickson, Abram A., New York, N. Y. Exercising device	632,114	Aug. 29	4424	994	88	1654
Hendrickson, John S. (See Burr and Hendrickson.)						
Hendrie, George. (See Dunham, William J., assignor.)						
Hendrie, Strathearn, Detroit, Mich., assignor to Lorain Steel Company, of Ohio. Motor-connecting box for electric-railway vehicles	627,502	June 27	2405	527 528	87	2138
Hendrix, Joel W., Palmetto, Fla. Fruit-cleaner	626,613	June 6	700	162	87	1750
Hendryx, Andrew B., New Haven, Conn. Machine for melting snow	636,987	Nov. 14	1460	315	89	1242
Hendy, Herbert T., Bristol, England. Game	634,141	Oct. 3	298	76	89	63
Hendy, John H., San Francisco, Cal. Antifrictional attachment for water or other gates	621,566	Mar. 21	1904	426	86	1894
Henggi, Lewis O., Verona, Pa. Jack	621,249	Mar. 14	1324	294	86	1771
Hengst, Charles F., London, England. Explosive compound	640,160	Dec. 26	3627	------	89	2687
Hening, Daniel E., Philadelphia, Pa. Display and register appliance	634,619	Oct. 10	1204	285 286	89	256
Heninger, Phillip C., Martinsburg, Iowa. Gate	620,708	Mar. 7	315	64	86	1562
Henjes, Theodor, *et al.* (See Benseler, Heinrich, assignor.)						
Henkel, Fritz, Dusseldorf, Germany. Making soluble alkaline silicates	633,841	Sept. 26	3063	------	88	2350
Henkel, George H., and J. Kunz, Jr., assignors of one-sixth to W. Ling and H. Van Sickle, Middletown, Ohio. Paper-sack holder and printer	639,678	Dec. 19	2757	636	89	2443
Henkel, Gustav, Wilhelmshöhe, Germany. Superheater	635,481	Oct. 24	2830	646	89	607
Henkel, John. (See Guilbault, Trefflé, assignor.)						
Henkle, Edward A., Philadelphia, Pa. Cutting apparatus for sheets containing printed matter	634,342	Oct. 3	718	171	89	144
Henkle, Edward A., Philadelphia, Pa. Calendar-holder	634,343	Oct. 3	721	171	89	144
Henkle, Edward A., Philadelphia, Pa. Printing-press	634,819	Oct. 10	1548	364	89	324
Henkle, George. (See Hatcher, James P., assignor.)						
Henley, Louis, Phœnix, N. Y., assignor to A. Swindlehurst, Montreal, Canada. Drawer for type-writer cabinets	635,962	Oct. 31	3727	861	89	793
Henley, Lucius R. (See Jackson and Henley.)						
Henn, Edwin C., Bloomfield, Conn. Screw-machine	624,802	May 9	1564	357	87	1028
Henn, Edwin C., Bloomfield, Conn. Screw-making machine	624,803	May 9	1567	357	87	1029
Henn, Edwin C., Bloomfield, Conn. Metal-working machine	635,853	Oct. 31	3524	810 811	89	755
Henneman, Frank. (See Henneman, John, assignor.)						
Henneman, John, assignor of one-half to F. Henneman, Chicago, Ill. Adjustable support	618,603	Jan. 31	3321	739	86	709
Henneman, Karel F. (See Otten and Henneman.)						
Hennemeier, Robert H., New York, N. Y. Driving-gear	618,174	Jan. 24	2538	561	86	545
Hennemeier, Robert H., New York, N. Y. Bicycle	626,756	June 13	981	222	87	1822
Hennessey, David, New Westminster, Canada. Can-top for fish or meats	638,580	Dec. 5	741	159	89	2007
Hennies, Charles E. (See Liley and Hennies.)						
Hennig, Paul. (See Kurth, William, assignor.)						
Henning, Gustavus C., New York, N. Y. Indicator for use in testing materials	631,540	Aug. 22	3364	765	88	1437
Henning, Hugo. (See De Groat and Henning.)						
Henning William J., Key West, Fla. Pipe-coupling	634,344	Oct. 3	722	171	89	144
Henquin, Nestor, Schenectady, N. Y. Underground electric-railway system and traveling collector therefor	621,080	Mar. 14	1025	225	86	1711
Henretty, Patrick, Belgrade, Minn. Water-wheel	629,250	July 18	2411	558	88	504
Henriquez, Edouard, Brussels, Belgium. Acetylene-gas-generating apparatus	632,940	Sept. 12	1387	320	88	1995
Henriquez, Edouard, Brussels, Belgium. Motor-carriage	636,529	Nov. 7	526	116	89	1027
Henry, Andrew L., Ladoga, Ind. Syringe	634,108	Oct. 3	233	59	89	50
Henry, Andrew L., Ladoga, Ind. Mail receiving and delivering apparatus	635,854	Oct. 31	3529	811	89	756
Henry, Arthur B., Ormsby, and T. F. Mullin, Bradford, Pa. Pipe-coupling	634,820	Oct. 10	1550	364	89	324
Henry C. Hart Manufacturing Company. (See Stoddard, Elliott J., assignor.)						
Henry, Charles, assignor to Society a Roudillon et Company, Paris, France. Producing and fixing iridescent colors on paper	618,672	Jan. 31	3449	770	86	734
Henry Disston & Sons. (See Disston, Henry, assignor.)						
Henry Disston & Sons. (See Odgers, Matthew, assignor.)						
Henry, Frank J., Kalamazoo, Mich. Spring-tooth harrow	638,513	Dec. 5	619	128	89	1985
Henry, Gabriel J. L., Quebec, Canada. Steam-engine	628,091	July 4	246	56, 57	88	49
Henry, Jacob B., Boston, Mass. Adjustable music rack and holder	628,319	July 4	708	164	88	136
Henry, Jennie, Seymour, Tex. Machine for turfing and embroidering fabrics	630,456	Aug. 8	1410	315 316	88	1011
Henry, Jesse A., Toronto, Canada. Thill-holder	631,638	Aug. 22	3544	798	88	1473
Henry, John B. (See Farrar, John J., assignor.)						
Henry McShane Manufacturing Company. (See Mackin, Francis M., assignor.)						
Henry, William, Philadelphia, Pa. Game	624,029	May 2	142	31	87	730
Henry, William, and G. O. Herrmann, Indianapolis, Ind. Coin holder and carrier	635,045	Oct. 17	1955	462	89	422
Hensch, Gustav, Dresden, Germany. Damper for mechanical musical instruments	619,887	Feb. 21	2025	460	86	1248
Hensel, Colladay Company. (See Hensel, George S., assignor.)						
Hensel, Colladay Company. (See Kirberg, Jakob E., assignor.)						
Hensel, Colladay Company. (See Poyet, John B., assignor.)						
Hensel, George S., Philadelphia, Pa., assignor to Hensel, Colladay Company, of Pennsylvania. Skirt-protector	638,013	Nov. 28	3791	796	89	1775
Hensel Silk Manufacturiug Company. (See Engstfeld, Ernst, assignor.)						
Hensley, Clinton, McGaheysville, Va. Mid-wire take-up	621,081	Mar. 14	1027	225	86	1711
Hensley, Frank A., San Antonio, Tex. Air-supplying device for diving purposes	638,392	Dec. 5	393	82	89	1941
Henss, Ludwig. (See Fischbach and Henss.)						
Henszey, William P. (See Barnes and Henszey.)						
Hentz, John J., Baltimore, Md. Bicycle	624,651	May 9	1285	287	87	971
Henwood, Horace E., Chicago, Ill. Bicycle	618,874	Feb. 7	105	22	86	825
Henze, Gustav. (See Barg, Bruno, assignor.)						
Henze, Henry C., New York, N. Y. Hook and eye	618,093	Jan. 24	2365	528	86	513

Alphabetical list of patentees—Continued.

Name, residence, and invention.	No.	Date.	Monthly volume. Spec.	Monthly volume. Dr'g.	Official Gazette. Vol.	Official Gazette. Page.
Hepburn, Charles G., Neutral Bay, New South Wales. Apparatus for treating oils or fats	628,092	July 4	250	57, 58, 59	88	50
Hepfner, George H., Dubois, Pa. Tool-coupling	637,256	Nov. 21	1997	428	89	1359
Hepp, Daniel, Chicago, Ill. Workman's time-recorder	625,262	May 16	2386	541	87	1200
Heppler, Johann M., Leer, Germany. Process of and apparatus for producing irisated prints	624,030	May 2	143	32	87	730
Hequembourg, Charles E., Dunkirk, N. Y. Method of and apparatus for dehydrating gas	620,773	Mar. 7	436	90	86	1587
Herald, Avediss B., Washington, D. C. Trousers-clasp	639,568	Dec. 19	2550	585	89	2402
Herbabny, Julius, assignor to K. Oehler, Anilin and Anilin Farben-Fabrik, Offenbach-on-the-Main, Germany. Yellow wool-dye and making same	627,690	June 27	2761	------	87	2208
Herbabny, Julius, Offenbach-on-the-Main, and C. Hartmann, Frankfort-on-the-Main, Germany. Green-blue tetrazo dye	639,040	Dec. 12	1563	------	89	2191
Herbabny, Julius, Offenbach-on-the-Main, and C. Hartmann, Frankfort-on-the-Main, Germany. Black tetrazo dye	639,041	Dec. 12	1564	------	89	2191
Herbabny, Julius, assignor to K. Oehler, Anilin and Anilinfarben-Fabrik, Offenbach-on-the-Main, Germany. Claret-red tetrazo dye	639,042	Dec. 12	1565	------	89	2191
Herberg, Tollef, Hendrum, Minn. Horseshoeing-rack	633,758	Sept. 26	2934	681	88	2322
Herbert, Fred. W. (See Hoskin, Albert A., assignor.)						
Herbert, James M., *et al.* (See Hall, Major, assignor.)						
Herbert, Michael E., Jr., Chicago, Ill. Water-heater	634,345	Oct. 3	723	172	89	145
Herbolsheimer, George S., Denver, Colo. Deep-mine or relay pump	621,667	Mar. 21	2086	466	86	1931
Herbrand Company. (See Fetzer, James J., assignor.)						
Herbst, Theodor, Frankfort-on-the-Main, Germany. Manufacture of screens for photo-printing processes	628,536	July 11	1106	258	88	233
Herbst, Theodor, Frankfort-on-the-Main, Germany. Dusting apparatus	633,694	Sept. 26	2827	657	88	2302
Herburger, George, Lincoln, Ill. Dinner-bucket	636,988	Nov. 14	1462	315	89	1242
Hercules Brick Machine Company. (See Willett, Robert A., assignor.)						
Hercules Electric Rock Drill Company. (See Pickett, George W., assignor.)						
Hercules Woodenware Company. (See Fisher and Reif, assignors.)						
Herdler, Alexander W., New York, N. Y. Game-board	618,875	Feb. 7	107	23	86	825
Herdman, Frank E., Winnetka, Ill. Speed-regulating device for hydraulic elevators	623,151	Apr. 18	1774	408	87	373
Herdman, Frank E., Winnetka, Ill. Speed-regulating device for hydrauiic elevators	623,152	Apr. 18	1779	409, 410	87	374
Herdman, Frank E., Winnetka, Ill. Automatic regulating device for hydraulic elevators	635,775	Oct. 31	3365	778, 779	89	723
Herdman, George W., *et al.* (See McNair, Robert H. and W. A., assignors.)						
Heren, Sol. P., *et al.* (See Sincock, David, assignor.)						
Heren & Sons, Sol. P., *et al.* (See Sincock, David, assignor.)						
Herendeen Manufacturing Company. (See Furman, Fredrick J., assignor.)						
Herfert, Joseph, Tucker, Wash. Nesting-box	625,975	May 30	3693	839	87	1497
Herfert, Joseph, Tucker, Wash. Animal-trap	637,783	Nov. 28	3340	699	89	1684
Hering, Daniel R., Sykesville, Md. Mail bag or pouch	630 694	Aug. 8	1835	414	88	1092
Hérisson, Albert, Paris, France. Windmill-regulator	637,736	Nov. 21	3252	678	89	1648
Herkert, Adam. (See Bonnlender and Herkert.)						
Herman, Andrew, Cheyenne, Wyo. Filing hand-flange	624,485	May 9	988	220	87	914
Herman, Anton, Prague, Austria-Hungary. Harness attachment for bicycles	635,683	Oct. 24	3186	733	89	676
Herman, Beno R., Washington, D. C. Commerciograph	635,596	Oct. 24	3026	695	89	644
Hermance, Robert, assignor of two-thirds to D. V. Brown and E. Reed, Glens Falls, N. Y. Lantern	621,668	Mar. 21	2087	466, 467	86	1932
Hermann, Martin E., *et al.* (See Campbell, George L., assignor.)						
Hermann, Robert A. M., assignor of two-thirds to K. E. People and W. Jennings, New York, N. Y. Mud-guard for bicycles	617,504	Jan. 10	1218	277	86	257
Hermanson, Gustaf A., Chicago, assignor to J. Munton, Maywood, Ill. Automatic car-coupling	623,471	Apr. 18	2342	538	87	489
Hermany, Horace D., Mahanoy City, Pa. Dental engine	622,467	Apr. 4	488	114	87	91
Herold, Carl. (See Herold, Josef and C.)						
Herold, Carl, and R. Richards, Brünn, Austria-Hungary. Circular loom	636,800	Nov. 14	1095	234, 235	89	1170
Herold, Josef, Brünn, and C. Herold, Königsfeld, assignors to Rundwebstuhlfabrik Herold & Richards, Brünn, Austria-Hungary. Circular loom	628,093	July 4	253	59, 60	88	51
Herold, Josef, Brünn, and C. Herold, Königsfeld, assignors to Rundwebstuhl Fabrik Herold & Richards, Brünn, Austria-Hungary. Circular loom	629,251	July 18	2412	558, 559	88	504
Herr, Austin, St. Elmo, Va., assignor to Eureka Instantaneous Opening Corset Steel Company, Dover, Del. Corset-clasp	634,576	Oct. 10	1134	269	89	243
Herr, Homer A., Philadelphia, Pa., assignor to Aeolian Company, New York, N. Y. Music-rolling and tempo-regulating mechanism	622,680	Apr. 11	912	210	87	192
Herr, Josiah B., Norton, Kans. Hog-catcher	635,543	Oct. 24	2937	671	89	628
Herran, Heinrich, Kladrub, Austria-Hungary. Snow-plow	617,830	Jan. 17	1863	416	86	402
Herrburger, Joseph, Paris, France. Grand-piano action	629,362	July 25	2625	610	88	565
Herrendeen, Henry H., Big Rapids, Mich. Stove	622,951	Apr. 11	1379	317	87	281
Herreshoff, John B. F., New York, N. Y. Roasting-furnace	616,926	Jan. 3	120	27	86	25
Herrick, Albert B., Ridgewood, and W. M. Brock, Paterson, N. J. Motor apparatus for looms	629,504	July 25	2907	677	88	622
Herrick, Edgar A. and G. M., assignors to E. L. Tebbets & Co., Locke's Mills, Me. Automatic spool-lathe	620,128	Feb. 28	2447	553, 554	86	1342
Herrick, George M. (See Herrick, Edgar A. and G. M.)						
Herrick, Phineas, assignor of one-half to A. Rohring, Elm, Mich. Cultivator	618,673	Jan. 31	3451	770	86	734
Herrick, William, assignor to Morgan & Wright, Chicago, Ill. Nipple-grip for bicycle-wrenches	622,005	Mar. 28	2739	619	86	2073
Herrick, William C., Wapello, Iowa. Refrigerator	625,301	May 16	2457	558, 559	87	1213
Herrick, William H. (See Semelroth, William J., assignor.)						
Herring, Walter R. (See Young, Herring, and Bell.)						
Herrmann, Albert, assignor to Farbwerke, vormals Meister, Lucius & Brüning, Höchst-on-the-Main, Germany. Green acid dye	628,243	July 4	526	------	88	105
Herrmann, Albert, assignor to Farbwerke, vormals Meister, Lucius & Brüning, Höchst-on-the-Main, Germany. Green dye and making same	630,224	Aug. 1	910	------	88	902
Herrmann, Albert, assignor to Farbwerke, vormals Meister, Lucius & Brüning, Höchst-on-the-Main, Germany. Green dye	639,976	Dec. 26	3315	------	89	2573
Herrmann, Albert, assignor to Farbwerke, vormals Meister, Lucius & Brüning, Höchst-on-the-Main, Germany. Green dye	639,977	Dec. 26	3316	------	89	2573
Herrmann, George O. (See Henry and Herrmann.)						
Herrmann, Jonas, Columbus, Ohio. Water-closet seat	623,016	Apr. 11	1502	347	87	306
Herrmann, Jonas, Columbus, Ohio. Water-closet seat	628,802	July 11	1618	373	88	337

Alphabetical list of patentees—Continued.

Name, residence, and invention.	No.	Date.	Monthly volume. Spec.	Monthly volume. Dr'g.	Official Gazette. Vol.	Official Gazette. Page.
Herron, Al H. (See Wichman and Herron.)						
Herron, Al H., assignor to Anthony Wayne Manufacturing Company, St. Louis, Mo. Washing-machine	623,903	Apr. 25	3155	727	87	662
Herron, Al H., assignor to Anthony Wayne Manufacturing Company, St. Louis, Mo. Gearing for washing-machines	624,031	May 2	148	32,33	87	731
Herron, Al H., assignor to Anthony Wayne Manufacturing Company, St. Louis, Mo. Can-opener	627,752	June 27	2873	628	87	2232
Herron, Al H., assignor to Anthony Wayne Manufacturing Company, St. Louis, Mo. Measuring-pump	632,568	Sept. 5	661	153	88	1837
Herron, Samuel P., and C. F. Gray, Bertha, Ky. Clamping device for broom-heads	639,978	Dec. 26	3316	759	89	2573
Herron, Thomas. (See Bayles, Saussure, and Herron.)						
Hersch, John W. (See Nethercott and Hersch.)						
Herschel, William D., assignor to J. O. Colladay, Philadelphia, Pa. Mortising-machine	630,538	Aug. 8	1568	350	88	1041
Herschmann, Arthur, Birmingham, England. Friction-clutch	635,684	Oct. 24	3187	733, 734	89	676
Hersey, Roscoe F., *et al.* (See Dean, James H., assignor.)						
Herster, Charles. (See Herster, Frederich, assignor.)						
Herster, Frederich, assignor of one-half to C. Herster, Rosedale, Kans. Malt-turner	625,505	May 23	2817	642	87	1309
Hertel, Max E., Greenfield, Mass., assignor to Oakman Motor Vehicle Company, Chicago, Ill. Regulating-valve for gas-motors	639,385	Dec. 19	2220	514	89	2337
Herterich, Frank H., New Haven, Conn. Spring-bed	632,412	Sept. 5	362	82	88	1777
Hertle, Frederick H., Chicago, Ill. Blank-book	632,941	Sept. 12	1389	321	88	1995
Hertlein, Christopher E. (See Weber, Aaron M., assignor.)						
Hertz, Henry, Tilden, Nebr. Apparatus for treating diseased animals	637,389	Nov. 21	2259	486, 487	89	1412
Hervais, Emile, Paris, France. Pressure or vacuum gage	632,942	Sept. 12	1390	321	88	1995
Hervey, Walter D., assignor of one-half to W. C. Morrow, Chenoa, Ill. Boiler-tube cutter and expander	622,681	Apr. 11	918	211	87	194
Hervey, William M., Homestead, Pa. Magazine bean-shooter	632,526	Sept. 5	579	134	88	1822
Hervieu, Gaston A., Nauterre, France. Acetylene-gas generator	635,544	Oct. 24	2938	671	89	628
Herwick, Charles W., and E. J. Lonergan, Los Angeles, Cal.; said Herwick assignor to said Lonergan. Pruning implement	638,116	Nov. 28	3984	839	89	1811
Herz, Leo von. (See Robitschek, Max, assignor.)						
Herz, Richard. (See Levinstein and Herz.)						
Herz, William G., Huntsville, Ala. Billiard-cue tip	624,804	May 9	1572	358	87	1029
Herzberg, Wilhelm, and H. Heimann, Berlin, Germany. Blue safranin dye	617,703	Jan. 10	1598	------	86	331
Herzer, Richard B. (See Jensen, Martin C., assignor.)						
Herzfelder & Fröhlich. (See Bals, Max, assignor.)						
Herzig, Eduard, Union Hill, N. J. Loom	623,604	Apr. 25	2595	593	87	555
Herzog, Arthur, Schmalkalden, Germany. Fly-catching apparatus	633,453	Sept. 19	2368	558	88	2198
Herzog, Felix B., New York, N. Y. Electric signaling apparatus and circuit	628,464	July 11	961	223, 224	88	204
Herzog, James, assignor of one-half to M. Scheidecker, Dubuque, Iowa. Jack-screw	619,304	Feb. 14	963	218	86	1018
Hesketh, Thomas G. F., Towcester, England. Manufacture of ointments	627,642	June 27	2682	------	87	2193
Heslet, Scott. (See Bundy, Doan, and Heslet.)						
Hess, Arnold. (See Scholl and Hess.)						
Hess, Azor P., Chatfield, Minn. Threshing-machine	621,493	Mar. 21	1765	394	86	1868
Hess, Edward B., assignor to Century Machine Company, New York, N. Y. Perforating and inking machine	629,076	July 18	2103	491, 492	88	447
Hess, Edward B., New York, N. Y., assignor to Metropolitan Register Company, of New York. Cash register and indicator	617,485	Jan. 10	1191	271	86	251
Hess, Edward B., New York, and J. M. Stoughton, Yonkers, assignors to Century Machine Company, New York, N. Y. Type-writing machine	620,774	Mar. 7	438	91	86	1587
Hess, Edward B., and A. S. Granger, assignors to Century Machine Company, New York, N. Y. Check-perforator	621,455	Mar. 21	1699	376	86	1856
Hess, Edward B., and O. Tyberg, assignors to Century Machine Company, New York, N. Y. Type-writing machine	637,334	Nov. 21	2153	464, 465	89	1391
Hess, Edward B., New York, and J. M. Stoughton, Yonkers, assignors to Century Machine Company, New York, N. Y. Type-writing machine	637,335	Nov. 21	2157	465	89	1392
Hess, Emil G. (See Hess, William, assignor.)						
Hess, Frank. (See Kragel, John, assignor.)						
Hess, Frederick. (See Reid and Hess.)						
Hess, Frederick J., Chicago, Ill. Holdback attachment for vehicles	622,145	Mar. 28	2991	676	86	2123
Hess, Georg, Nuremberg, Germany. Propelling mechanism for velocipedes	618,094	Jan. 24	2366	528	86	513
Hess, George A., Maquoketa, Iowa. Trace-holder	619,176	Feb. 7	725	157	86	953
Hess, George H., Jr., La Grange, Ill. Apparatus for drying and cooling grain	618,508	Jan. 31	3158	697, 698	86	677
Hess, Jacob D. (See Klemme, Louis, Jr., assignor.)						
Hess, Wendell, Jr., assignor to J. A. Leggett, Troy, N. Y. Starching-machine	634,346	Oct. 3	724	172, 173	89	145
Hess, William, Niagara, Canada, assignor to E. G. Hess, Cleveland, Ohio. Iron bedstead	637,784	Nov. 28	3342	699	89	1684
Hesse, Leopold, South Melbourne, Victoria. Utilizing waste coffee products	640,161	Dec. 26	3628	834	89	2638
Hesse, Otto H., Leavenworth, Kans. Short-turning vehicle-gear	622,623	Apr. 4	783	182	87	149
Hessel, Quintin R. (See Kuss, Henry F., assignor.)						
Hessenbruch, Hermann. (See Mueller, Robert G., assignor.)						
Hester, Theodore, and R. Haupt, Easton, Pa. Thill-coupling	618,461	Jan. 31	3067	679	86	660
Heston, Frank E., Rushland, Pa. Dumping-wagon	623,017	Apr. 11	1502	348	87	306
Heston, William, Homestead, Pa. Valve	621,082	Mar. 14	1029	225	86	1712
Heston, William, Homestead, Pa. Pipe-thread protector	638,117	Nov. 28	3986	839	89	1812
Hetherington, Frederick A., Indianapolis, Ind. Drier	618,095	Jan. 24	2368	528, 529	86	514
Hetherington, Frederick A., Indianapolis, Ind. Portable paving repair plant	637,869	Nov. 28	3517	735	89	1721
Hett, Edward, New York, N. Y. Making printing-surfaces	637,555	Nov. 21	2563	553, 554	89	1472
Hett, Edward, New York, N. Y. Mechanism for making printing-surfaces	637,556	Nov. 21	2581	556	89	1477
Hett, Edward, New York, N. Y. Multicolor-printing	637,557	Nov. 21	2596	556, 557	89	1480
Hett, Edward, New York, N. Y. Multicolor-printing	637,558	Nov. 21	2620	557, 558	89	1487
Hett, Edward, New York, N. Y. Multicolor-printing	637,559	Nov. 21	2652	558, 559, 560	89	1500
Hett, Edward, New York, N. Y. Method of preparing forms and of printing	637,560	Nov. 21	2669	560	89	1505
Hett, Edward, New York, N. Y. Printing-form and printing-press	637,561	Nov. 21	2680	561	89	1509

Alphabetical list of patentees—Continued.

Name, residence, and invention.	No.	Date.	Monthly volume. Spec.	Monthly volume. Dr'g.	Official Gazette. Vol.	Official Gazette. Page.
Hett, Edward, New York, N. Y. Lithographic transfer and printing press and printing-form	637,562	Nov. 21	2694	561 562	89	1513
Hett, Edward, New York, N. Y. Form-cylinder	637,563	Nov. 21	2703	562 563	89	1515
Hett, Edward, New York, N. Y. Multicolor-printing press	637,564	Nov. 21	2707	563 564 565	89	1516
Hett, Edward, New York, N. Y. Device for distributing water	637,565	Nov. 21	2719	565 566	89	1520
Hett, Edward, New York, N. Y. Multicolor-printing press	637,566	Nov. 21	2722	566 567	89	1521
Hett, Edward, New York, N. Y. Transfer-press	637,567	Nov. 21	2725	567 568 569	89	1522
Hett, Edward, New York, N. Y. Lithographic-printing press	637,568	Nov. 21	2731	570 571 572 573 574	89	1523
Hett, Edward, New York, N. Y. Controlling-engine for presses	637,569	Nov. 21	2755	574 575 576	89	1527
Hett, Edward, New York, N. Y. Controlling-engine for presses	637,570	Nov. 21	2778	577	89	1534
Hett, Edward, New York, N. Y. Controlling-engine for presses	637,571	Nov. 21	2790	578 579	89	1538
Hett, Edward, New York, N. Y. Bronzing and dusting attachment for printing-presses	637,572	Nov. 21	2802	579 580 581	89	1540
Hett, Edward, New York, N. Y. Guiding and delivering device for printing-presses	637,573	Nov. 21	2812	581 582	89	1542
Hett, Edward, New York, N. Y. Lithographic press	637,574	Nov. 21	2817	582 583	89	1543
Hett, Edward, New York, N. Y. Damping mechanism for lithographic presses	637,575	Nov. 21	2824	583 584	89	1545
Hett, Edward, New York, N. Y. Lithographic press	637,576	Nov. 21	2837	584 585	89	1550
Hett, Edward, New York, N. Y. Multicolor-printing press	637,577	Nov. 21	2843	585 586	89	1551
Hett, Edward, New York, N. Y. Method of and mechanism for dampening planographic presses	637,578	Nov. 21	2845	586 587	89	1551
Hett, Edward, New York, N. Y. Apparatus for handling printing-cylinders	637,579	Nov. 21	2849	587 588	89	1552
Hett, Edward, New York, N. Y. Apparatus for handling printers' cylinders or tubes	637,580	Nov. 21	2852	588 589	89	1554
Hett, Edward, New York, N. Y. Apparatus for handling lithographic-printing tubes	637,581	Nov. 21	2856	589	89	1555
Hett, Edward, New York, N. Y. Printing-press	627,582	Nov. 21	2860	589 590 591	89	1555
Hett, Edward, New York, N. Y. Tube-handling device	637,583	Nov. 21	2864	591 592 593	89	1556
Hett, Edward, New York, N. Y. System for handling printing-cylinders	637,584	Nov. 21	2870	593 594	89	1557
Hett, Edward, New York, N. Y. Electroplating apparatus	637,585	Nov. 21	2878	594 595	89	1559
Hett, Edward, New York, N. Y. Transferring or turning-over machine	637,586	Nov. 21	2879	595 596	89	1560
Hett, Edward, New York, N. Y. Rolling-up or developing machine	637,587	Nov. 21	2884	596	89	1561
Hett, Edward, New York, N. Y. Treating printing-surfaces	637,588	Nov. 21	2888		89	1562
Hett, Edward, New York, N. Y. Rolling-up machine	637,589	Nov. 21	2889	597	89	1562
Hett, Edward, New York, N. Y. Turning-over and rolling-up machine	637,590	Nov. 21	2892	597 598	89	1563
Hett, Edward, New York, N. Y. Machine for making printing-surfaces	637,591	Nov. 21	2901	598 599	89	1566
Hett, Edward, New York, N. Y. Mechanism for making printing-surfaces	637,592	Nov. 21	2907	599 600	89	1568
Hett, Edward, New York, N. Y. Machine for making printing-surfaces	637,593	Nov. 21	2911	600	89	1569
Hett, Edward, New York, N. Y. Printing-press	637,594	Nov. 21	2915	601	89	1570
Hett, Edward, New York, N. Y. Making printing-surfaces	637,595	Nov. 21	2917	601 602 603 604	89	1571
Hett, Edward, New York, N. Y. Mechanism for making printing-surfaces	637,596	Nov. 21	2933	604 605 606 607 608	89	1575
Hett, Edward, New York, N. Y. Machine for making printing-surfaces	637,597	Nov. 21	2956	608 609	89	1582
Hett, Edward, New York, N. Y. Mechanism for making printing-surfaces	637,598	Nov. 21	2966	609 610 611	89	1586
Hett, Edward, New York, N. Y. Machine for making printing-surfaces	637,599	Nov. 21	2972	611 612	89	1387
Hett, Edward, New York, N. Y. Lithographic transferring and printing	637,600	Nov. 21	2978	612 613	89	1589
Hett, Edward, New York, N. Y. Apparatus for lithographic transferring and printing	637,601	Nov. 21	2981	613	89	1589
Hett, Edward, New York, N. Y. Printing-press	637,602	Nov. 21	2985	613 614 615	89	1590
Hett, Edward, New York, N. Y. Printing-press	637,603	Nov. 21	2992	615 616	89	1592
Hett, Edward, New York, N. Y. Press	637,604	Nov. 21	2996	616 617	89	1592
Hett, Edward, New York, N. Y. Printing-press	637,605	Nov. 21	3001	617 618	89	1593

Alphabetical list of patentees—Continued.

Name, residence, and invention.	No.	Date.	Monthly volume. Spec.	Monthly volume. Dr'g.	Official Gazette. Vol.	Official Gazette. Page.
Hett, Edward, New York, N. Y. Printing-press	637,606	Nov. 21	3007	618, 619, 620	89	1595
Hett, Edward, New York, N. Y. Printing-press	637,607	Nov. 21	3011	620, 621	89	1596
Hett, Edward, New York, N. Y. Printing-press	637,608	Nov. 21	3014	621, 622	89	1597
Hett, Edward, New York, N. Y. Printing-press	637,609	Nov. 21	3025	623	89	1600
Hettrick, William E., Toledo, Ohio. Adjustable awning	619,957	Feb. 21	2138	485	86	1269
Heuer, Edward F., Wautoma, Wis. Potato-planter	619,744	Feb. 21	1747	399	86	1194
Heulings, Helen, Philadelphia, Pa. Fertilizer-distributer and seed-planter	623,783	Apr. 25	2925	668	87	618
Heumann, Karl, deceased; L. Gifford, Jersey City, N. J., administrator, assignor to Badische Anilin and Soda Fabrik, Ludwigshafen, Germany. Blue dye and making same	617,651	Jan. 10	1502	------	86	312
Heumann, Karl, deceased; L. Gifford, Jersey City, N. J., administrator, assignor to Badische Anilin and Soda Fabrik, Ludwigshafen, Germany. Making indigo coloring-matters	617,652	Jan. 10	1503	------	86	312
Heumann, Karl, deceased; L. Gifford, Jersey City, N. J., administrator, assignor to Badische Anilin and Soda Fabrik, Ludwigshafen, Germany. Dimethylindigo and making it	619,883	Feb. 21	2018	------	86	1246
Heumann, Karl, deceased; L. Gifford, Jersey City, N. J., administrator, assignor to Badische Anilin and Soda Fabrik, Ludwigshafen, Germany. Blue dye and making same	619,884	Feb. 21	2019	------	86	1247
Heumann, Karl, deceased; L. Gifford, Jersey City, N. J., administrator, assignor to Badische Anilin and Soda Fabrik, Ludwigshafen, Germany. Blue glycocol dye	620,442	Feb. 28	2986	------	86	1445
Heumann, Karl, deceased; L. Gifford, Jersey City, N. J., administrator, assignor to Badische Anilin and Soda Fabrik, Ludwigshafen, Germany. Blue dye	621,652	Mar. 21	2050	------	86	1924
Heumann, Karl, deceased; L. Gifford, Jersey City, N. J., administrator, assignor to Badische Anilin and Soda Fabrik, Ludwigshafen, Germany. Blue coloring-matter and manufacturing same	622,139	Mar. 28	2982	------	86	2121
Hevner, Ann V., executrix. (See Hevner, Peter.)						
Hevner, Peter, deceased, Philadelphia, Pa.; A. V. Hevner, executrix. Permanent way for railways	625,675	May 23	3104	706	87	1365
Hevner, Peter, deceased, Philadelphia, Pa.; A. V. Hevner, executrix. Railway-rail joint	625,676	May 23	3106	706	87	1366
Hevron, James F. (See Hasson, John, assignor.)						
Hewel, Ellen S. (See Hewel, John J., assignor.)						
Hewel, John J., assignor to E. S. Hewel, Tyrone, Pa. Filter	619,569	Feb. 14	1402	322	86	1102
Hewes, James E., and D. S. Williams, assignors to said Williams and J. A. Vincent, Philadelphia, Pa. Petroleum incandescent lamp	631,012	Aug. 15	2397	545	88	1227
Hewes, Otis, Lime Spring, Iowa. Washing-machine	620,921	Mar. 14	710	157	86	1653
Hewett, John E., Wilmington, N. C. Quotation-card and envelop	622,852	Apr. 11	1207	281	87	248
Hewett, John E., Wilmington, N. C. Shipper's tag	639,236	Dec. 19	1929	444	89	2276
Hewett, Robert J., St. Louis, Mo. Telephone system	629,163	July 18	2268	526	88	478
Hewett, Thomas, assignor of one-half to T. K. Bellis, London, England. Chain-gearing	639,043	Dec. 12	1566	359	89	2192
Hewit, William E., David City, Nebr. Grocer's cabinet	622,624	Apr. 4	785	183	87	149
Hewit, William E., David City, Nebr. Vapor-blowpipe	628,222	July 4	484	116	88	97
Hewit, William E., David City, Nebr. Die-press	628,626	July 11	1275	296	88	267
Hewitt, Albert E. (See McKernan, John H., assignor.)						
Hewitt, Alvin E., Shelton, Conn. Safety garment-hook	637,114	Nov. 14	1714	369	89	1289
Hewitt, Charles, assignor to Electric Storage Battery Company, Philadelphia, Pa. Transfer wattmeter-switch for storage-battery circuits	621,412	Mar. 21	1611	357	86	1839
Hewitt, Elias F., North Jackson, Ohio. Poultry-coop	631,541	Aug. 22	3371	765	88	1439
Hewitt, Frederick J., and C. H. Bridoux, assignors to Hewitt Sealer and Stamper Company, Chicago, Ill. Machine for cutting sheets of stamps into strips	638,014	Nov. 28	3792	796, 797	89	1775
Hewitt, Henry J., Chicago, Ill. Chandelier	626,907	June 13	1310	288	87	1886
Hewitt, Jacob, and C. Gapen, Pittsburg, Pa. Automatic indicating-drop for annunciators	620,319	Feb. 28	2785	637	86	1407
Hewitt, John. (See Dowell, Arthur E., assignor.)						
Hewitt, John. (See John, James, assignor.)						
Hewitt, John, *et al.* (See Chapleau, Wildric, assignor.)						
Hewitt, John, *et al.* (See Pauli, Emil A., assignor.)						
Hewitt, John H., and J. F. Edds, Heidenheimer, Tex. Nailless horseshoe	630,350	Aug. 8	1176	258	88	970
Hewitt, John T., London, England. Purifying alcoholic liquids	625,108	May 16	2122	------	87	1150
Hewitt, Mary E. (See Rout, Benjamin F., assignor.)						
Hewitt, Percy H., E. A. Cockle, and C. Matthews, London, England. Shuttle for sewing-machines	628,320	July 4	709	164	88	136
Hewitt, Percy H., E. A. Cockle, and C. Matthews, London, England. Sewing-machine shuttle	629,252	July 18	2416	560	88	505
Hewitt, Percy H., E. A. Cockle, and C. Matthews, London, England. Sewing-machine shuttle	639,044	Dec. 12	1567	359	89	2192
Hewitt, Peter C., New York, N. Y. Condenser	629,682	July 25	3213	748, 749	88	681
Hewitt Sealer and Stamper Company. (See Hewitt and Bridoux, assignors.)						
Hewitt, Thomas E., London, England. Locking or unlocking means for emergency exit-doors	634,821	Oct. 10	1551	365	89	324
Hewitt, William R., San Francisco, Cal. Fire-alarm signal-circuit	636,139	Oct. 31	4103	939	89	869
Hewlett, Edward M., Schenectady, N. Y., assignor to General Electric Company, of New York. Ground-detector	625,763	May 30	3283	743	87	1418
Hewlett, Edward M., Schenectady, N. Y., assignor to General Electric Company, of New York. Automatic circuit-breaker	630,539	Aug. 8	1569	350	88	1042
Hewlett, Edward M., Schenectady, N. Y., assignor to General Electric Company, of New York. Protecting static voltmeters	637,785	Nov. 28	3343	700	89	1685
Hewlett, Edward M., Schenectady, N. Y., assignor to General Electric Company, of New York. Conduit-plow	639,235	Dec. 19	1926	443	89	2276
Hewson, Edward M., assignor of one-third to W. Bolan, Jr., Stillwater, N. Y. Bushing for barrel-taps	619,041	Feb. 7	464	97	86	900
Hewson, Robert B., assignor of one-half to A. Kanzee, San Francisco, Cal. Quick-break electric switch	636,989	Nov. 14	1463	316	89	1243
Hey, George W., Syracuse, N. Y., assignor to International Postal Supply Company, of New York. Marking apparatus	632,527	Sept. 5	580	134, 135	88	1822
Hey, Walter T. (See Bailey, Cox, and Hey.)						
Heyard, Frank, assignor to Berger Manufacturing Company, Canton, Ohio. Hurricane-lantern	624,933	May 16	1818	408	87	1093
Heydebrand und der Lasa, Ferdinand C. von. (See Le Mon, James, assignor.)						
Heydebrand und der Lasa, Ferdinand C. von. (See Turner and Heydebrand und der Lasa.)						
Heydecker, Edward L., New York, N. Y. Book	634,265	Oct. 3	556	138	89	111
Heyer, John, Grand Rapids, Mich. Toy marble-projector	634,980	Oct. 17	1844	437	89	400

Alphabetical list of patentees—Continued.

Name, residence, and invention.	No.	Date.	Monthly volume. Spec.	Monthly volume. Dr'g.	Official Gazette. Vol.	Official Gazette. Page.
Heyer Storage Battery Company. (See Stewart, Thomas D., assignor.)						
Heyer, William B. (See Moore, Charles R., assignor.)						
Heyl, George A. (See Harley, Henry M., assignor.)						
Heyl, George A. (See Harley and Gibbs, assignors.)						
Heyl & Patterson. (See Acklin and Patterson, assignors.)						
Heyl & Patterson. (See Patterson and Acklin, assignors.)						
Heyland, Alexander, Frankfort-on-the-Main, Germany. Alternating-current motor	624,652	May 9	1286	287, 288	87	971
Heyland, Alfred R., and J. H. Gray, Kaslo, Canada. Mineral-lode tracer	628,321	July 4	711	165	88	136
Heylman, Edward M., assignor to Parlin & Orendorff Company, Canton, Ill. Riding-plow	617,338	Jan. 10	924	213	86	199
Heylman, Edward M., assignor to Parlin & Orendorff Company, Canton, Ill. Disk plow	625,764	May 30	3284	744	87	1418
Heyman, Elias, New York, N. Y. Necktie	628,583	July 11	1193	279	88	250
Heymann, Bernhard, Elberfeld, Germany, assignor to Farbenfabriken of Elberfeld Company, of New York. Diacetyl-indoxyl and making same	618,096	Jan. 24	2370	------	86	514
Heymann, Bernhard, Elberfeld, Germany, assignor to Farbenfabriken of Elberfeld Company, of New York. Making indigo	626,231	June 6	26	------	87	1620
Heymann, Edward. (See Heymann, Frank W. and E.)						
Heymann, Frank W. and E., Boston, Mass., assignors to Heymann Motor Vehicle and Manufacturing Company, Portland, Me. Carriage-frame	630,054	Aug. 1	622	136	88	846
Heymann, Henry, Rochester, Pa. Harp	634,142	Oct. 3	299	76	89	63
Heymann, Henry L., assignor of one-half to H. J. Ostendorf, New Orleans, La. Insect-trap	625,677	May 23	3107	707	87	1366
Heymann Motor Vehicle and Manufacturing Company. (See Heymann, Frank W. and E., assignors.)						
Heymanson, Julius. (See Tzschucke, Hermann, assignor.)						
Heys, John J., Lynn, Mass., assignor to McKay Shoe Machinery Company, Portland, Me. Heel-breasting machine	636,990	Nov. 14	1465	316, 317	89	1243
Heysel, George, Olean, N. Y. Hydrocarbon-burner	622,146	Mar. 28	2992	676	86	2123
Hibbard, Charles L. (See Henderson and Hibbard.)						
Hibbard, Maury W., assignor to R. Fitzgerald, Chicago, Ill. Device for actuating fluid-pressure brakes	619,480	Feb. 14	1254	288	86	1074
Hibbard, Maury W., assignor to R. Fitzgerald, Chicago, Ill. Fluid-pressure brake	619,481	Feb. 14	1260	288, 289	86	1075
Hibbard, Maury W., assignor to R. Fitzgerald, Chicago, Ill. Operating fluid-pressure brakes	619,570	Feb. 14	1403	322	86	1102
Hibbard, William H. (See Calleson, Amos, assignor.)						
Hibbs, John L., Bristol, Pa. Attachment for hand or other seed drills	636,140	Oct. 31	4105	939	89	870
Hickey, John, St. Paul, Minn., assignor to American Steel Foundry Company, St. Louis, Mo. Car-transom	637,786	Nov. 28	3344	700	89	1685
Hickey, John, St. Paul, Minn., assignor to American Steel Foundry Company, St. Louis, Mo. Car-transom	637,787	Nov. 28	3345	700	89	1686
Hickey, John, St. Paul, Minn., assignor to American Steel Foundry Company, St. Louis, Mo. Car-transom	637,788	Nov. 28	3346	701	89	1686
Hickey, Michael, Boston, Mass. Apparatus for recovering waste alcohol from liquor-casks	639,979	Dec. 26	3318	760	89	2573
Hickey, Michael, Boston, Mass. Apparatus for recovering waste alcohol from casks	639,980	Dec. 26	3319	760, 761	89	2574
Hickey, Thomas F., assignor of one-half to C. H. Dean, Johnsonville, N. Y. Blind-stop	636,262	Nov. 7	67	15	89	936
Hickey, White W. M., San Francisco, Cal. Massage-machine	625,976	May 30	3694	840	87	1497
Hickman, Francis, Bound Brook, N. J., assignor to French-Hickman Flax Fibre Company, Limited, London, England. Fibrous stock and making same	629,077	July 18	2114	------	88	450
Hickman, Henry, San Francisco, Cal. Curtain-stretcher	622,356	Apr. 4	272	62	87	52
Hickok, William O., 3d, and A. Cooper, assignors to W. O. Hickok Manufacturing Company, Harrisburg, Pa. Ruling-machine	619,411	Feb. 14	1139	257, 258	86	1051
Hicks, Bohn C., Chicago, Ill., assignor, by mesne assignments, to Hicks Motor Cycle Company, of Illinois. Vehicle	621,083	Mar. 14	1029	226	86	1712
Hicks, E. R., administrator. (See Challoner, Frank.)						
Hicks, Edgar J., assignor of one-half to R. E. Poindexter, Indianapolis, Ind. Handsaw	616,927	Jan. 3	121	27	86	25
Hicks, Edgar J., assignor of one-half to R. E. Poindexter, Indianapolis, Ind. Saw-jointer	624,332	May 2	713	158	87	837
Hicks, Edgar J., assignor of one-half to R. E. Poindexter, Indianapolis, Ind. Handsaw	627,615	June 27	2632	578	87	2183
Hicks, Edgar J., assignor of one-half to R. E. Poindexter, Indianapolis, Ind. Handsaw-handle	637,257	Nov. 21	1998	428	89	1359
Hicks, Everett, Belleville, N. J. Automatic alarm for drip-pans	629,683	July 25	3214	749	88	681
Hicks, James J. (See Barnard, Hicks, and Hill.)						
Hicks, John T., Boston, Mass. Reversible die-box	625,952	May 30	3646	828	87	1487
Hicks, John T., Boston, Mass. Combined die-box and check-box	626,278	June 6	110	29	87	1635
Hicks, John T., Boston, Mass. Cashier's file-box	630,505	Aug. 8	1499	336	88	1028
Hicks Motor Cycle Company. (See Hicks, Bohn C., assignor.)						
Hicks, Oliver H., Chicago, Ill., assignor to Morgan Envelope Company, Springfield, Mass. Machine for perforating paper	622,682	Apr. 11	919	211, 212	87	194
Hicks, Oliver H., Chicago, Ill., assignor to Morgan Envelope Company, Springfield, Mass. Machine for perforating paper	632,115	Aug. 29	4425	994, 995	88	1654
Hicks, Samuel F., Chillicothe, Ill. Corn-sheller	636,665	Nov. 7	790	174, 175	89	1082
Hicks, Thomas H., Fort Wayne, Ind. Controlling and regulating mechanism for engines	632,716	Sept. 12	972	225	88	1913
Hicks, Thomas H., Detroit, Mich. Alternating-current generator	638,679	Dec. 5	939	209	89	2051
Hickson, Frederick A., and W. J. Wood, Atlanta, Ga. Combined andiron, grate, and fender	630,695	Aug. 8	1837	414	88	1093
Hickson, Joseph, and O. P. Bushnell, Mount Gilead, Ohio. Joint for hollow building-blocks, tubes, &c	639,569	Dec. 19	2550	585	89	2402
Hickson, Theodore W., New York, N. Y. Tent	627,932	June 27	3195	699	87	2297
Hieke, Franz and K., Philadelphia, Pa. Cavalry equipment	636,430	Nov. 7	343	77	89	990
Hieke, Konrad. (See Hieke, Franz and K.)						
Hiett, De Kerniea J. T., assignor to Universal Accountant Machine Company, St. Louis, Mo. Calculating-machine	638,118	Nov. 28	3987	839, 840, 841, 842, 843	89	1812
Higbee, Edwin W., Northampton, Mass. Apparatus for heating water	636,141	Oct. 31	4106	939, 940	89	870
Higgin, Henry, assignor to Higgin Manufacturing Company, Newport, Ky. Band-shell for wheel-hubs	624,935	May 16	1821	408	87	1093
Higgin, Henry, assignor to Higgin Manufacturing Company, Newport, Ky. Hub-cap	624,936	May 16	1822	409	87	1094
Higgin, Henry, assignor to Higgin Manufacturing Company, Newport, Ky. Thill-coupling	634,456	Oct. 10	919	220	89	201

Alphabetical list of patentees—Continued.

Name, residence, and invention.	No.	Date.	Monthly volume.		Official Gazette.	
			Spec.	Dr'g.	Vol.	Page.
Higgin Manufacturing Company. (See Higgin, Henry, assignor.)						
Higginbottom, James, Liverpool, England. Separating granular materials	619,482	Feb. 14	1264	289	86	1076
Higginbottom, James, Liverpool, England. Apparatus for heating air	619,483	Feb. 14	1266	289 290	86	1077
Higgins, Anthony. (See Hollis, George H. and R. C., assignors.)						
Higgins, Benjamin F., Neoga, assignor of one-half to D. W. Chamberlin, Paradise, Ill. Weather-strip	632,310	Sept. 5	192	43	88	1745
Higgins, Campbell P., Roselle, N. J., assignor to Babcock & Wilcox Company, of New York. Machine for making oval hand-holes	638,711	Dec. 12	999	222 223	89	2081
Higgins, Campbell P., Roselle, N. J., assignor to Babcock & Wilcox Company, of New York. Rabbeting-machine for oval hand-holes	638,712	Dec. 12	1000	223 224	89	2081
Higgins, Charles M. (See Rousseau, David, assignor.)						
Higgins, Charles M., New York, N. Y. Cap and brush for bottles	624,934	May 16	1819	408	87	1093
Higgins, Christopher G., Falmouth, Ky. Hand tobacco-setter	626,614	June 6	701	162	87	1750
Higgins, Edward S., assignor to J. M. Kelly, London, England. Cutting-link of mortise-cutting chains	619,888	Feb. 21	2026	460	86	1248
Higgins, George A., Galesburg, Ill. Flue-stop	620,129	Feb. 28	2448	554	86	1343
Higgins, George E., Chicago, Ill. Automatic sprinkler-head	617,097	Jan. 3	453	110	86	88
Higgins, George T., Milwaukee, Wis. Dental chair	638,197	Nov. 28	4143	874 875	89	1844
Higgins, John A., and J. C. Oneil, Milford, Mass. Caster	630,696	Aug. 8	1838	414	88	1093
Higgins, Joseph C., Bound Brook, N. J. Soft-tread horseshoe	629,295	July 18	2483	579	88	517
Higgins, Joseph C., Bound Brook, assignor of one-third to G. V. Baldwin, Jr., New Brunswick, N. J. Soft-tread horseshoe	627,691	June 27	2762	605	87	2208
Higgins, Richard M., Webster Groves, Mo. Case for vaccination appliances	633,454	Sept. 19	2369	558	88	2199
Higgins, Sylvester W., Detroit, assignor of three-fourths to W. H. Dewees, Muskegon, Mich. Spike	628,537	July 11	1107	258	88	233
Higgins, Sylvester W., Detroit, assignor of three-fourths to W. H. Dewees, Muskegon, Mich. Spike	634,413	Oct. 3	835	201	89	167
Higgins, Werter C., Norwich, Conn. Steam-generator and hot-water heater	619,412	Feb. 14	1140	258 259	86	1051
Higgins, Werter C., Norwich, Conn. Steam-generator and hot-water heater	619,413	Feb. 14	1143	259	86	1052
Higginson, Henry C. (See Stürcke, Herman E., assignor.)						
Higgs, Frederick M., Kvabram, Victoria. Swivel-action cultivator	638,119	Nov. 28	4003	843	89	1816
Highfield, John S., St. Helens, and J. M. Cater, London, England. Electrical conducting-main	630,697	Aug. 8	1839	414	88	1093
Higham, Daniel, Cambridge, Mass. Electric-arc lamp	635,545	Oct. 24	2940	672	89	629
Higham, Howard H., Philadelphia, Pa. Bottle-package	623,472	Apr. 18	2344	538	87	489
Higley, Christina J., New York, N. Y. Button	622,683	Apr. 11	921	212	87	195
Higman, John, Jr., *et al.* (See Jackson, William, assignor.)						
Hilborn, Timothy R., Newmarket, Canada. Adjustable pig stall and trough	630,351	Aug. 8	1176	258	88	970
Hilbourn, Louis B., assignor of one-half to F. C. J. and L. T. Wiss, Newark, N. J. Eye-glasses	623,212	Apr. 18	1882	431	87	395
Hildebrand, Reinhard, Philadelphia, Pa. Superheater	639,981	Dec. 26	3321	761	89	2574
Hildebrand, William C., Glen Rock, Pa. Lifting-jack	628,803	July 11	1619	373	88	337
Hildebrandt, Albert, and A. C. Oesterla, Baltimore, Md. Combined placket-fastener and belt-retainer	629,684	July 25	3215	749	88	681
Hildenbrandt, George, *et al.* (See Smith, James G., assignor.)						
Hilderbrand, Edward L., Sullivan, Ind. Axle-spindle	624,805	May 9	1573	358	87	1029
Hile, John W., Kansas City, Kans. Merry-go-round	639,386	Dec. 19	2222	515	89	2337
Hile, John W., assignor to H. M. Evans, Kansas City, Kans. Gasolene-lamp	618,940	Feb. 7	238	54	86	850
Hile, John W., assignor to H. M. Evans, Kansas City, Kans. Gasolene-lamp	638,198	Nov. 28	4146	876	89	1845
Hilgenstock, Gustav, Dahlhausen, Germany, assignor to United Coke and Gas Company, Philadelphia, Pa. Apparatus for leveling coal in coke-ovens	639,570	Dec. 19	2552	585 586	89	2402
Hill, Adelbert D., Northfield, Minn. Coin-controlled skimmed-milk measurer	633,002	Sept. 12	1485	345 346	88	2014
Hill, Alva T., assignor to Ross & Holden, Detroit, Mich. Circuit breaker and closer	618,876	Feb. 7	108	23	86	825
Hill, Andrew J., Roswell, N. Mex. Ter. Detergent	623,716	Apr. 25	2780	636	87	589
Hill, Annie B. (See Nigro, Charles, assignor.)						
Hill, Benjamin B., Philadelphia, Pa. Hand-stamp	620,922	Mar. 14	711	157	86	1653
Hill, Benjamin B., Philadelphia, Pa. Hand-stamp	627,734	June 27	2835	621	87	2223
Hill, Calvin H., Chicago, Ill. Pivot or hinge joint	631,369	Aug. 22	3047	690 691	88	1374
Hill, Charles G., *et al.* (See Newman, Charles E., assignor.)						
Hill, Charles G., Arnot Hill, and R. Weiss, Nottingham, England. Circular-weaving apparatus	637,336	Nov. 21	2161	465 466	89	1393
Hill, Christian C., assignor to Steel Ball Company, Chicago, Ill. Ball-grinding machine	624,032	May 2	150	33	87	731
Hill, Christian C., Chicago, Ill., assignor to Steel Ball Company, Kenosha, Wis. Rotary steel-ball-forging machine	635,776	Oct. 31	3373	779	89	726
Hill, Clement A., Hull, England. Pneumatic tire	627,616	June 27	2633	579	87	2183
Hill, Constantine, Denver, Colo. Mechanical motor	620,845	Mar. 7	577	125	86	1615
Hill, Edward E., Chicago, Ill. Apparatus for cleaning carpets	628,538	July 11	1108	258	88	234
Hill, Ernest R., Wilkinsburg, Pa., assignor to Westinghouse Electric and Manufacturing Company, of Pennsylvania. Car or train lighting system for electric railways	633,971	Sept. 26	3298	768	88	2396
Hill, George P., assignor of one-half to M. Hill, Richmond, Va. Leg and ankle brace	618,097	Jan. 24	2371	529 530	86	513
Hill, George S., Waukegan, Ill. Burial-case	621,413	Mar. 21	1612	358	86	1839
Hill, George W., Cave in Rock, Ill. Cash-register	618,941	Feb. 7	240	54 55 56	86	851
Hill, Harry. (See Foster, William S., assignor.)						
Hill, Harry W., Cleveland, Ohio. Friction-clutch	617,098	Jan. 3	455	110	86	89
Hill, Henry, Nottingham, England. Reading and punching apparatus for jacquards	623,473	Apr. 18	2345	538 539 540	87	490
Hill, Henry, and E. G. Price, London, England. Folding photographic camera	622,853	Apr. 11	1208	281	87	248
Hill, Hugh, Anderson, Ind. Cutting-tool	622,625	Apr. 4	787	183	87	150
Hill, Jacob F., Nanticoke, Pa. Chimney-flue	638,713	Dec. 12	1002	225	89	2081
Hill, James A., Ravenswood, W. Va., assignor of one-half to A. D. Cole, Maysville, Ky. Mattress	620,923	Mar. 14	712	158	86	1653
Hill, James H., Belleville, Canada. Lantern	628,804	July 11	1621	374	88	337
Hill, John B., Winchester, Canada. Cutting-bar for mowing-machines	635,321	Oct. 24	2478	576	89	538
Hill, John E. (See Tivy and Hill.)						
Hill, John N., Franklin, N. H. Wrench	624,211	May 2	487	104	87	792
Hill, Justin H., Chicago, Ill. Hame-fastener	639,982	Dec. 26	3322	761	89	2575
Hill, Leonard E. (See Barnard, Hicks, and Hill.)						
Hill, Louis A., Philadelphia, Pa. Bicycle-wheel	627,118	June 20	1678	368	87	1977

Alphabetical list of patentees—Continued.

Name, residence, and invention.	No.	Date.	Monthly volume.		Official Gazette.	
			Spec.	Dr'g.	Vol.	Page.
Hill, Malvern. (See Hill, George P., assignor.)						
Hill, Mottram, Vicksburg, Mich. Mail-pouch	618,877	Feb. 7	110	23	86	826
Hill, Robert L., *et al.* (See Farmer, James D., assignor.)						
Hill, Samuel A., Atlantic City, N. J. Dredging-machine	635,890	Oct. 31	3609	832	89	772
Hill, Sylvanus L., *et al.* (See McNair, Robert H. and W. A., assignors.)						
Hill, Thomas, Jersey City, N. J. Dumping-vehicle	618,007	Jan. 17	2176	486	86	462
Hill, Thomas, Jersey City, N. J. Dumping-vehicle	625,765	May 30	3287	745	87	1419
Hill, Thomas, Jersey City, N. J. Vehicle-frame	627,416	June 20	2249	496	87	2091
Hill, Thomas, Jersey City, N. J. Push-wagon	633,998	Oct. 3	32	10,11	89	10
Hill, Thomas, Jersey City, N. J. Covering for ash-carts or other vehicles	633,999	Oct. 3	35	11	89	11
Hill, Thomas, Jersey City, N. J. Wagon-body	634,750	Oct. 10	1441	339	89	303
Hill, Thomas W., Los Angeles, Cal. Filter for water, &c	621,768	Mar. 21	2283	514	86	1969
Hill, Warren E., New York, N. Y. Headed cylinder	630,607	Aug. 8	1685	379	88	1065
Hill, Wilford A., Waltham, assignor of one-half to J. C. Miller, Melrose, Mass. Knife-sharpener. (Reissue)	11,715	Feb. 7	875	193	86	983
Hill, William R., Little Rock, Ark. Pea-thresher	625,482	Oct. 24	2832	646	89	608
Hill, William S., *et al.* (See Pugh, William J., assignor.)						
Hillard, Frederic W. (See Babcock, William G., assignor.)						
Hillard, Frederic W. (See Hatch and Hillard.)						
Hillebrand, John, and W. E. Wilke, Austin, Tex. Baling-press	621,494	Mar. 21	1770	395	86	1869
Hillegas, Joseph. (See Simpson and Hillegas.)						
Hiller, Simon, Carbondale, Ill. Stump-extractor	622,147	Mar. 28	2993	676 677	86	2124
Hillerman, John W., and N. Rossi, Lyons, Kans. Drier for ladies' hair	623,153	Apr. 18	1785	410	87	376
Hillery, Benjamin F. (See O'Connell and Hillery.)						
Hilliard, W. H. R. (See Guest, Joseph, assignor.)						
Hillman, Arthur T., Dolgeville, N. Y. Feed-water heater	627,302	June 20	2001	440	87	2043
Hillman, William. (See Veazie and Patterson, assignors.)						
Hills, Albert S., Springfield, Mass. Valve	618,878	Feb. 7	111	24	86	826
Hills Brothers Company. (See Stott, Alexander W., assignor.)						
Hills, Charles W., Jackson, Mo. Automatic cattle-guard gate	630,608	Aug. 8	1687	380	88	1065
Hills, James E., New York, N. Y. Cuff-button	624,486	May 9	989	220	87	914
Hills, Louis C., Washington, D. C., assignor to T. J. Bradley, Memphis, Tenn. Vapor-burning lamp	620,454	Feb. 28	3001	686 687	86	1447
Hillwig, Samuel, Rankin, Pa. Garment-stretcher	639,728	Dec. 26	2848	656	89	2479
Hillyer, William H., Freeport, Ohio. Hot-air furnace	639,571	Dec. 19	2553	586	89	2403
Hilton, Edward. (See Howard, William, assignor.)						
Hilton, Roland C. (See Sowle and Hilton.)						
Hilty, John F., assignor to National Car Seal and Lock Company, Denver, Colo. Seal-lock	620,846	Mar. 7	578	125	86	1616
Hilzheim, Hyman G., Jackson, Miss. Hinge	625,678	May 23	3108	707	87	1366
Himebaugh, Adelbert C. (See Nicolai, Samuel F., assignor.)						
Himes, Thomas M. (See Jenks and Himes.)						
Himmel, Gottlob, Tübingen, Germany. Incandescent burner	621,567	Mar. 21	1905	426	86	1894
Himmel, Gottlob, Tübingen, Germany. Incandescent burner	632,350	Sept. 5	253	60	88	1757
Himmelheber, David. (See Wiechel and Himmelheber.)						
Himoff, Max. (See Levy and Himoff.)						
Himrod, Kirk, Chicago, Ill., assignor to International Typal Telegraph Company, Detroit, Mich. Printing-telegraph	624,487	May 9	990	220 221 222 223 224	87	914
Himrod, Kirk, Chicago, J. R. Tucker and C. C. Hinckley, Aurora, Ill., assignors to International Typal Telegraph Company, Detroit, Mich. Combined relay and distributer	637,789	Nov. 28	3347	701 702	89	1687
Hinch, J. W. (See Haynes, Albert, Sr., assignor.)						
Hinckley, Charles C. (See Himrod, Tucker, and Hinckley.)						
Hinckley, Howard V., Topeka, Kans. Construction of metal-concrete-arch bridges	623,904	Apr. 25	3158	728	87	663
Hinckley, Walter F. (See Jesseman, Ira, assignor.)						
Hind, Jesse, *et al.* (See Lowe, Samuel, assignor.)						
Hindes, George F., *et al.* (See Beever and McCoy, assignors.)						
Hindley, William, Hoboken, N. J., and J. W. Harding, New York, N. Y., assignors, by mesne assignments, to Diamond Wood Company, of New Jersey. Bundling-machine	637,207	Nov. 14	1899	408 409	89	1325
Hindley, William, Hoboken, N. J., and J. W. Harding, New York, N. Y., assignors, by mesne assignments, to Diamond Wood Company, of New Jersey. Knotter	638,243	Dec. 5	70	17, 18	89	1880
Hindman, David C. (See Hughes and Hindman.)						
Hindmarsh, Percy J., Topeka, Kans. Seat-post	636,726	Nov. 7	908	202	89	1109
Hinds, Franklin P., Boston, assignor to J. F. Berton, Somerville, Mass. Pneumatic check for elevator-gates	621,669	Mar. 21	2089	467	86	1932
Hinds, Franklin P., Boston, assignor to J. F. Berton, Somerville, Mass. Elevator-guard	621,670	Mar. 21	2090	467	86	1932
Hine, Adelbert P., Torrington, Conn. Electric rolling-machine indicator	638,333	Dec. 5	279	57	89	1919
Hiner, Ernest H., Rogers, Ark. Railway-crossing	618,351	Jan. 24	2836	630	86	601
Hines, Andrew, Arlington, Ky. Hay-rack	620,587	Mar. 7	65	13	86	1515
Hines, Henry W., Pittsburg, Pa. Puzzle	622,468	Apr. 4	489	115	87	91
Hines, Rudolph C., Washington, D. C. Eyeglasses	630,887	Aug. 15	2162	491	88	1182
Hines, William F., Gnadenhutten, Ohio. Acetylene-gas generator	636,991	Nov. 14	1470	317 318	89	1244
Hinken, John H., Louisville, Ky., assignor to J. E. Turney Drying Machinery Company, Chicago, Ill. Filter-press. (Reissue)	11,772	Sept. 19	2541	596	88	2231
Hinkle, George A., Mount Hope, assignor of one-half to E. E. Bleckley, Wichita, Kans. Railway-ticket	639,572	Dec. 19	2556	587	89	2402
Hinkle, William A., Forsyth, and D. N. Ashmore, Bethany, Ill.; said Ashmore assignor to said Hinkle. Rod-coupling	637,790	Nov. 28	3353	703	89	1687
Hinkley, Charles J. (See Norton and Hinkley.)						
Hinkley, Elza D., Sing Sing, N. Y. Bicycle-brake	618,572	Jan. 31	3270	726	86	698
Hinkson, Frank B., and W. I. Crawford, New Castle, Pa. Plumb-level	633,589	Sept. 26	2638	616	88	2265
Hinkson, Frank B., and W. I. Crawford, New Castle, Pa. Jumping-rope	633,590	Sept. 26	2640	616	88	2265
Hinman, Alfred, Forest City, Mo. Electric motor	627,417	June 20	2250	496 497	87	2091
Hinman, Arthur E., Sparta, Mich. Shipping-crate	631,075	Aug. 15	2529	573	88	1254
Hinman, Charles W., Boston, Mass. Gas-meter	638,457	Dec. 5	521	107	89	1967
Hinman, Charles W., Boston, Mass. Gas-meter	638,458	Dec. 5	524	108	89	1967
Hinman, Clement F., Chicago, Ill. Crushing-machine	621,754	Mar. 21	2257	509	86	1964
Hinman, Clement F., Chicago, Ill. Crushing-machine	621,755	Mar. 21	2262	510	86	1965
Hinman, George W., Lake Charles, La. Barrel	621,671	Mar. 21	2092	467 468	86	1933
Hinrichs, Ferdinand, St. Paul, Minn. Refrigerator-circle	625,333	May 23	2526	574	87	1252
Hinrichs, Gerhard H., Davenport, Iowa. Flower-pot	627,231	June 20	1869	410	87	2015

Alphabetical list of patentees—Continued.

Name, residence, and invention.	No.	Date.	Monthly volume.		Official Gazette.	
			Spec.	Dr'g	Vol.	Page.
Hinsdale, Winfield E., New York, N. Y. Soil-pipe connection for water-closets, &c	628,004	July 4	88	17	88	19
Hinsdale, Winfield E., New York, N. Y. Lavatory-basin waste	636,727	Nov. 7	910	202	89	1109
Hinson, Benoni T., assignor of one-half to A. J. Welcker and C. Werz, St. Louis, Mo. Rotary engine	625,446	May 23	2719	618 619	87	1289
Hinson, James A., Chicago, Ill. Head-block for railway-cars	635,322	Oct. 24	2479	576	89	538
Hinson, James A., Chicago, Ill. Draft-sill for railway-cars	636,431	Nov. 7	344	77,78	89	991
Hinson, James A., Chicago, Ill. Buffer for railway-cars	638,244	Dec. 5	80	18,19	89	1882
Hinson, James J., assignor of one-half to P. W. Bussey & Co., Milan, Ga. Combined burglar-alarm and lamplighter	622,684	Apr. 11	923	212	87	195
Hinton, John R., assignor to M. Romaine and O. G. Hinton, Petersburg, Va. Fire-cracker	619,177	Feb. 7	726	157	86	953
Hinton, Orlando G., *et al.* (See Hinton, John R., assignor.)						
Hipolito, Espiridion, Los Angeles, Cal. Window	618,462	Jan. 31	3068	679	86	660
Hipolito, Espiridion, and A. Mastin, Los Angeles, Cal. Wire screen	619,958	Feb. 21	2139	485	86	1269
Hippard, Emanuel, Youngstown, Ohio. Steam-trap	638,581	Dec. 5	742	159	89	2008
Hippisley Manufacturing Company. (See Hippisley, William H., assignor.)						
Hippisley, William H., Boston, Mass., assignor to Hippisley Manufacturing Company, of New Jersey. Hair-brush	621,917	Mar. 28	2573	580	86	2040
Hipwell, Daniel E., London, England. Reversible seat	623,310	Apr. 18	2063	473	87	432
Hipwood, George, Boston, Mass. Car-fender	633,361	Sept. 19	2206	518	88	2167
Hironimus, Fred W., and R. A. Harness, Corydon, Ky. Sash balance and lock	619,571	Feb. 14	1406	323	86	1103
Hirsch, Feodor C., New York, assignor to J. W. Eaton, trustee, West Islip, N. Y. Oil-engine	622,469	Apr. 4	489	115 116	87	91
Hirsch, Feodor C., New York, assignor to J. W. Eaton, trustee, Islip, N. Y. Motor-carriage	639,237	Dec. 19	1930	444 445	89	2277
Hirsch, Isaac, Chicago, Ill. Fork	619,305	Feb. 14	964	218	86	1018
Hirsch, Joseph. (See Davies, Albert J., assignor.)						
Hirsch, Ludwig, New York, N. Y. Oil-can	635,855	Oct. 31	3530	811	89	756
Hirschbaum, Hermann R. (See Engels, Fritz W., assignor.)						
Hirschman, Herbert, Salt Lake City, Utah. Trolley	631,165	Aug. 15	2680	605	88	1282
Hirt, Georg, and G. Horn, Nuremberg, Germany. Explosive-gas engine	630,083	Aug. 1	679	146	88	857
Hirt, Louis J., Brookline, Mass. Igniter for gas-engines	620,924	Mar. 14	713	158	86	1653
Hirt, Louis J., Brookline, Mass. Gas-purifying apparatus	620,925	Mar. 14	714	158	86	1653
Hirt, Louis J., Brookline, Mass. Gas-engine	620,926	Mar. 14	716	158 159	86	1654
Hirt, Louis J., Brookline, Mass. Gas-engine	629,904	Aug. 1	293	66.67	88	778
Hirt, Louis J., Brookline, Mass. Coking-oven	632,116	Aug. 29	4429	995 996	88	1655
Hirt, Louis J., Brookline, Mass. Apparatus for manufacturing illuminating-gas	633,317	Sept. 19	2128	498 499	88	2152
Hirt, Ludwig, assignor to Maschinenfabrik Grevenbroich, Grevenbroich, Germany. Crystallizing apparatus	625,031	May 16	1974	441	87	1124
Hirt, Ludwig, assignor to Maschinenfabrik Grevenbroich, Grevenbroich, Germany. Closing device for filter-presses	633,759	Sept. 26	2936	682	88	2323
Hirt, Ludwig, assignor to Maschinenfabrik Grevenbroich, Grevenbroich, Germany. Apparatus for condensing steam	636,000	Oct. 31	3816	877 878	89	812
Hirt, Ludwig, assignor to Maschinenfabrik Grevenbroich, Grevenbroich, Germany. Centrifugal machine	637,258	Nov. 21	1999	428	89	1359
Hirth, Carl A., Stuttgart, Germany. Lathe for turning balls	634,981	Oct. 17	1845	437 438	89	400
Hirth, Christ F. (See Engel and Hirth.)						
Hirzel, Heinrich. (See Müller, Emanuel, assignor.)						
Hirzel, Heinrich, Leipsic-Plagwitz, Germany. Apparatus for aerating liquids	630,506	Aug. 8	1501	336	88	1028
Hiscock, Charles O., Detroit, Mich. Temporary binder	632,491	Sept. 5	512	117	88	1808
Hiscock, Emory C., assignor to W. W. Kimball Company, Chicago, Ill. Self-playing organ	638,245	Dec. 5	81	19	89	1882
Hiscock, James W. (See Bagley, William I., assignor.)						
Hise, Grant M., Assumption, and J. W. Eckman, Arcola, Ill. Residence electric plant	637,115	Nov. 14	1715	369 370	89	1290
Hislop, George R., Paisley, Scotland. Gas-producer	626,279	June 6	112	29	87	1635
Hist, John, Randall, Ohio. Potato-digger	625,766	May 30	3290	746	87	1419
Histed, Archie A., and C. Mershon, Des Moines, Iowa. Bicycle pump connection	628,005	July 4	91	18	88	19
Histon, John. (See Weller, Franklin A., assignor.)						
Hitch, Albert E., Cleveland, assignor to Akron Trolley Wheel Company, Akron, Ohio. Trolley head	625,263	May 16	2389	542	87	1200
Hitch, John E. (See Watts and Hitch.)						
Hitch, William S., Dover, Del. Horseshoe	619,745	Feb. 21	1748	400	86	1194
Hitchcock, Daniel N., Memphis, Tenn. Disinfecting device	634,109	Oct. 3	234	59	89	50
Hitchcock, Embury A. (See Robinson and Hitchcock.)						
Hitchcock, Frank I., Bridgeport, Conn., assignor to Pennsylvania Iron Works Company, Philadelphia, Pa. Throttle-valve for gas-engines	625,767	May 30	3292	747	87	1420
Hitchcock, John L., Uhrichsville, and C. Galbraith, Germano, Ohio. Bicycle-saddle	622,357	Apr. 4	273	63	87	52
Hitchcock, Robert, Watertown, N. Y. Forced-draft lamp	620,130	F'. 28	2449	554 555	86	1343
Hitchcock, Solomon C., Tacoma, Wash. Elliptic spring for vehicles	624,033	May 2	152	34	87	732
Hitt, Robert G. (See Coonradt, William M. assignor.)						
Hixson, Frank, assignor of one-half to B. F. Martien, Ashland, Ohio. Saw-set	623,544	Apr. 25	*2486	571	87	535
Hixson, Frank, assignor of one-half to B. F. Martien, Ashland, Ohio. Separator	624,333	May 2	714	158	87	837
Hoag, William E., Rockford, Ill. Feather brush	621,414	Mar. 21	1612	358	86	1839
Hoag, Elwyn D., assignor of one-half to C. P. Gordon, Charles City, Iowa. Bag-holder	626,701	June 13	891	202	87	1805
Hoage, Leon, and A. Nyvall, New York, N. Y. Lid-holder	626,023	May 30	3832	869	87	1522
Hoage, Leon, and A. Nyvall, New York, N. Y. Medicine carrier and measurer	635,963	Oct. 31	3728	662	89	793
Hoagland, Ellery M., and D. S. Richardson, Oakland, assignors to Montague Indicator and Letter Box Company, San Francisco, Cal. Post-office-box time-indicator	636,992	Nov. 14	1476	318	89	1245
Hoagland, Ellery M., and D. S. Richardson, Oakland, assignors to Montague Indicator and Letter Box Company, San Francisco, Cal. Mail-box time-indicator	636,993	Nov. 14	1479	319	89	1246
Hoard, Eugene P., Hot Springs, S. D. Animal-poke	634,890	Oct. 17	1682	397	89	367
Hoare, Henry, and M. J. Kennedy, assignors to Automatic Gas Lighting and Extinguishing Company, Limited, (Hoare & Kennedy's Patent,) Perth, Western Australia. Central-station-controlled automatically lighted and extinguished gas-burner	635,933	Oct. 31	3679	849	89	784
Hoare, Robert, assignor of one-half to Angular Hole Machine Company, Limited, London, England. Spanner	619,414	Feb. 14	1144	260	86	1052
Hobart, Frank G. (See Charter and Hobart.)						
Hobart, Frank G. (See Morse and Hobart.)						
Hobart, Frank G., Beloit, Wis., assignor to Fairbanks, Morse & Company, Chicago, Ill. Friction-clutch	617,419	Jan. 10	1082	247	86	230
Hobart, Frank G., Beloit, Wis., assignor to Fairbanks, Morse & Company, Chicago, Ill. Compressor-valve	626,064	May 30	3900	886	87	1534

Alphabetical list of patentees—Continued.

Name, residence, and invention.	No.	Date.	Monthly volume.		Official Gazette.	
			Spec.	Dr'g.	Vol.	Page.
Hobart, Frank G., Beloit, Wis., assignor to Fairbanks, Morse & Company, Chicago, Ill. Compression-controller	627,850	June 27	3043	665	87	2264
Hobart, Horatio N., assignor of one-half to R. N. Botsford, Elgin, Ill. Gate	625,768	May 30	3293	747	87	1420
Hobart, Horatio N., assignor of one-half to R. N. Botsford, Elgin, Ill. Gate	639,573	Dec. 19	2557	587	89	2403
Hobart, M. M. (See Eastman, Henry F., assignor.)						
Hobbs, Clarence W., Worcester, Mass. Machine for attaching fly-strips to paper boxes	638,413	Dec. 5	440	91	89	1949
Hobbs, John L. (See Wesson and Hobbs.)						
Hobbs, Willis F., and E. N. Sperry, Bridgeport, Conn. Scissors or shears	618,879	Feb. 7	113	24	86	826
Hobby, Delzon G., assignor of one-half to F. L. Ferris, Albion, N. Y. Oven-grate	620,927	Mar. 14	720	159	86	1654
Hobdell, Harry. (See Kennedy, Joseph R., assignor.)						
Hobel, Hinrich F., assignor to Accumulatoren und Electricitäts-Werke Actien-Gesellschaft, vormals W. A. Boese & Co., Berlin, Germany. Accumulator-plate	629,363	July 25	2625	610	88	566
Hoberg, Frank H., Green Bay, Wis. Toilet-paper fixture and roll	622,046	Mar. 28	2806	633	86	2086
Hoberg, Frank H., Green Bay, Wis. Toilet-paper package and binder	630,888	Aug. 15	2164	492	88	1183
Hobert, Clayton, Philadelphia, Pa. Milk-can	638,334	Dec. 5	280	57	89	1920
Hobson, John S., Topeka, Kans. Bracket signal-post	632,413	Sept. 5	364	83	88	1778
Hoch, Fred, Milwaukee, Wis. Drawbridge	622,685	Apr. 11	924	212, 213	87	195
Hochriem, Gustav. (See Paupa and Hochriem.)						
Hochstetter, Robert W., assignor to Ault & Wiborg Company, Cincinnati, Ohio. Composition of matter	619,889	Feb. 21	2026	------	86	1248
Hock, John, Allegheny, Pa. Folding cot	627,061	June 13	1574	344	87	1937
Hock, John, Allegheny, Pa. Folding table	631,465	Aug. 22	3222	732	88	1408
Hock, Tobias J., and E. Happersberger, San Francisco, Cal. Coin-controlled telephone-register	626,809	June 13	1086	244	87	1843
Hockerson, Nels, Jr., assignor of one-half to C. Strand and E. Carlson, Marine Mills, Minn. Pole and neck-yoke coupling	623,665	Apr. 25	2695	618	87	574
Hodel, Joseph A., Baltimore, Md. Chimney top or ventilator	629,253	July 18	2418	560	88	505
Hodgdon, Evans W. (See Whitcomb, George A., assignor.)						
Hodge, Clinton D., Watertown, N. Y. Combined level, plumb, and inclinometer	632,182	Aug. 29	4568	1028	88	1682
Hodge, John D., Kearny, N. J. Bench-rest for visework	630,698	Aug. 8	1840	415	88	1093
Hodge, Thomas L., *et al.* (See Logan, Ferdinand, assignor.)						
Hodgerney, Isa B., Lebanon, N. H. Pocket-cuspidor	630,225	Aug. 1	911	200	88	902
Hodges, Horace F., assignor to C. B. Southard, trustee, Boston, Mass. Ice-machine	619,042	Feb. 7	465	97	86	900
Hodges, Jesse, and C. O. Sobinski, St. Louis, Mo. Shoe-clasp	621,415	Mar. 21	1613	358	86	1839
Hodges, Joseph L., Glenville, Ga. Plow and cultivator	630,352	Aug. 8	1177	258	88	971
Hodges, Pliny F., Goochland, Va. Front-cut mowing-machine	624,334	May 2	716	158	87	837
Hodges, Pliny F., Goochland, Va. Front-cut mowing-machine. (Reissue)	11,785	Nov. 7	973	209	89	1128
Hodgins, Eli. (See Hodgins, Thomas G. and E.)						
Hodgins, Thomas G., Lucan, and E. Hodgins, Biddulph, Canada. Manure-carrier	637,116	Nov. 14	1717	370	89	1290
Hodgkinson, Edmund H., London, England. Changeable gearing for vehicles	617,572	Jan. 10	1358	306, 307	86	283
Hodgkinson, Edmund H., London, England. Changeable gear for vehicles	619,572	Feb. 14	1408	323, 324	86	1103
Hodgman, Frederick A., Tuckahoe, N. Y. Apparatus for finishing rubber cloth	630,540	Aug. 8	1572	351	88	1042
Hodgman, Willis K. (See Huber and Hodgman.)						
Hodgson, Albert, Toronto, Kans. Hub and axle	623,784	Apr. 25	2926	669	87	618
Hodgson, Albert E. (See Schanschieff and Hodgson.)						
Hodgson, Albert E., Halifax, England. Secondary battery	636,142	Oct. 31	4107	940	89	870
Hodgson, Ernest F., Dover, Mass. Chicken-brooder	622,148	Mar. 28	2995	677	86	2124
Hodgson, James, Jr. (See Holmes, Penny, and Hodgson.)						
Hodsdon, Charles W., and G. B. Gerau, New York, N. Y. Sewing-machine needle	623,666	Apr. 25	2697	618	87	574
Hoe, Robert, *et al.* (See Crowell, Luther C., assignor.)						
Hoe, Robert, *et al.* (See Crowell and North, assignors.)						
Hoe, Robert, *et al.* (See Houghtlin, Alfred, assignor.)						
Hoe, Robert, *et al.* (See Jackson, Benjamin F., assignor.)						
Hoe, Robert, *et al.* (See North, Thomas M., assignor.)						
Hoe, Robert, *et al.* (See Read, George F., assignor.)						
Hoe, Robert, *et al.* (See Rice, John M., assignor.)						
Hoe, Robert, *et al.* (See Roesen, Oscar, assignor.)						
Hoe, Robert, *et al.* (See Sheldon, Edward P., assignor.)						
Hoe, Robert, *et al.* (See Spalckhaver, William, assignor.)						
Hoech, Theodor G., Washington, D. C. Canal-boat elevator	619,043	Feb. 7	466	97,98	86	900
Hoefinghoff, Harry C., assignor to A. A. Frey, Cincinnati, Ohio. Apparatus for malting corn, barley, &c	619,746	Feb. 21	1750	400	86	1194
Höegh, Emil von. (See Goerz and Höegh.)						
Hoehne, Ferdinand F., Kaukauna, assignor of one-third to G. F. Germanson, Little Chute, Wis. Securing metal gudgeons in wooden rollers	624,212	May 2	487	105	87	793
Hoeller, Joseph J., Jr. (See Neuens and Hoeller.)						
Hoelzen, Ewald H. (See Miller, August, assignor.)						
Hoepfner, Carl, Berlin, Germany. Electrolytical production of zinc or other metals	629,685	July 25	3216	749	88	681
Hoepfner, Carl, Frankfort-on-the-Main, Germany. Extracting zinc from its ores	629,686	July 25	3220	------	88	682
Hoepfner, Carl, Frankfort-on-the-Main, Germany. Extracting lead, zinc, or silver from complex sulfidic ores	629,856	Aug. 1	186	------	88	757
Hoepner, George, Sandwich, Ill. Screw driver and holder	637,990	Nov. 28	3730	784	89	1763
Hoerens, Felix, St. François, Canada. Wrench	632,051	Aug. 29	4298	966	88	1629
Hoerl, Conrad, Newark, N. J. Gas-engine and governing device therefor	633,380	Sept. 19	2243	528, 529	88	2174
Hoerner, John S., Highland, Ill. Sharpener for edge-tools	618,008	Jan. 17	2177	486	86	463
Hoerr, Louis A. (See Vissering and Hoerr.)						
Hoerr, Louis A., *et al.* (See Butler, Leon E., assignor.)						
Hoerr, Louis A., St. Louis, Mo. Track-sanding apparatus	629,857	Aug. 1	189	43,44	88	757
Hoerr, Louis A., St. Louis, Mo. Timber-pocket	633,197	Sept. 19	1874	441	88	2102
Hoerr, Louis A., St. Louis, Mo. Car-truck	634,891	Oct. 17	1683	398	89	367
Hoerr, Louis A., St. Louis, Mo. Draft-rigging	636,039	Oct. 31	3882	892	89	825
Hoerr, Louis A., St. Louis, Mo. Car-door	636,040	Oct. 31	3884	892	89	825
Hoerr, Louis A., St. Louis, Mo. Draft-rigging	636,041	Oct. 31	3886	892	89	826
Hoey, George E., Barnsley, England. Joint for glass tubing	620,320	Feb. 28	2787	637	86	1407
Hoey, John, San Francisco, Cal. Box-couch	629,034	July 18	2026	473	88	432
Hoey, Thomas. (See Harrington, Cornelius J., assignor.)						
Hoeye, Jake V., Booneville, Iowa. Coin-controlled machine for selling cigars	628,938	July 18	1862	431, 432	88	399
Hofbauer, Johann, Vienna, Austria-Hungary. Means for securing tools to their handles	629,128	July 18	2207	512	88	467
Hofe, John G. von, assignor of one-half to M. Abarno, New York, N. Y. Window-bracket for clothes-lines	639,045	Dec. 12	1570	359	89	2192
Hoff, Charles, and G. H. Klotter, Cincinnati, Ohio. Machine for manufacturing fire-kindlers, &c	636,530	Nov. 7	532	117	89	1029

Alphabetical list of patentees—Continued.

Name, residence, and invention.	No.	Date.	Monthly volume. Spec.	Monthly volume. Dr'g.	Official Gazette. Vol.	Official Gazette. Page.
Hoff, Gilbert T., Ashby, Minn. Heating-drum	633,003	Sept. 12	1489	346	88	2015
Hoff, John A., assignor to W. T. Blaine, Chicago, Ill. Fluid-pressure operating device	633,344	Sept. 19	2173	510	88	2161
Hoff, John A., assignor to W. T. Blaine, Chicago, Ill. Cash register and recorder	633,842	Sept. 26	3064	712, 713, 714	88	2350
Hoffa, W. F., *et al.* (See Cook, James C., assignor.)						
Hoffman, Casper F., Reynoldsville, Pa. Register for hotels or clubs	623,018	Apr. 11	1503	348	87	307
Hoffman, Henry M., assignor of one-half to I. S. Weaver, Baltimore, Md. Sectional boiler	639,574	Dec. 19	2559	587, 588	89	2404
Hoffman, Jeremiah M., assignor of one-half to J. D. Mengel, Reading, Pa. Slicing mechanism for bread, &c	619,415	Feb. 14	1145	260	86	1052
Hoffman, Lester C., Bunker Hill, W. Va. Game-belt	633,550	Sept. 19	2530	594	88	2229
Hoffman, Philip, Philadelphia, Pa. Machine for producing striped knitted fabric	620,035	Feb. 21	2277	516	86	1295
Hoffman, Thomas E., Orangeburg, S. C. Seeder and planter	635,483	Oct. 24	2833	646, 647	89	608
Hoffman, William D., Newton, assignor to Consolidated Machine Specialty Company, Boston, Mass. Speed-changing mechanism	638,965	Dec. 12	1433	328	89	2166
Hoffmann, Adolf G., Berlin, Germany. Tapping apparatus for liquors	618,352	Jan. 24	2837	631	86	601
Hoffmann, Albert, Milwaukee, Wis. Rail-joint	617,744	Jan. 17	1675	377, 378	86	366
Hoffmann, Arnold G., assignor of one-half to C. D. Cowles, U. S. Army. Intrenching-tool	630,829	Aug. 8	2064	465	88	1140
Hoffmann, Ernst G., London, England. Machine adapted for making balls, rivets, &c	624,488	May 9	1000	225	87	916
Hoffmann, Ernst G., London, England. Stop mechanism	624,489	May 9	1001	225, 226	87	916
Hoffmann, Ernst G., London, England. Device for holding circular cutters	624,490	May 9	1005	226	87	916
Hoffmann, Ernst G., London, England. Device for feeding wire	624,491	May 9	1007	226, 227	87	917
Hoffmann, Ernst G., London, England. Drive-chain	624,492	May 9	1010	227	87	917
Hoffmann, Ernst W. G. C., Charlottenburg, Germany, assignor to Siemens & Halske Electric Company of America, Chicago, Ill. Electric buoy. (Reissue)	11,706	Jan. 3	851	199, 200	86	168
Hoffmann, Ernst W. G. C., Charlottenburg, Germany, assignor to Siemens & Halske Electric Company of America, Chicago, Ill. Rolling-mill	622,801	Apr. 11	1109	257	87	230
Hoffmann, Ernst W. G. C., Charlottenburg, Germany, assignor to Siemens & Halske Electric Company of America, Chicago, Ill. Rotary pump	623,605	Apr. 25	2596	594	87	555
Hoffmann, Friedrich, and W. Ohlsen, Kiel, Germany. Electric hand-fuse for gas-burners	625,264	May 16	2390	542	87	1201
Hoffmann, Friedrich E., Hanover, Germany, assignor to R. F. Irish, Boston, Mass. Soap-holder	626,540	June 6	589	135	87	1728
Hoffmann, Fritz E. (See Hoffmann, Gustav and F. E.)						
Hoffmann, George E., Chicago, Ill. Violin-rest	627,692	June 27	2763	605	87	2208
Hoffmann, Gustav and F. E., Solms, Tex. Combined cultivator and corn or cotton planter	622,358	Apr. 4	275	63	87	53
Hoffmann, Heinrich, assignor to Fried. Krupp Grusonwerk, Magdeburg, Germany. Apparatus for making threads of explosives	620,775	Mar. 7	445	92	86	1588
Hoffmann-La Roche & Co., F. (See Barell, Emil, assignor.)						
Hoffmann-La Roche & Co., F. (See Schaerges, Carl F. M., assignor.)						
Hoffmann, Otto, Withington, England. Means for automatically cleaning filters	632,461	Sept. 5	459	103, 104	88	1798
Hoffmann, Otto, Withington, England. Automatic fire-extinguisher	634,457	Oct. 10	920	220	89	201
Hoffmire, John M., Red Bank, N. J. Drawer-centering device	628,322	July 4	712	165	88	137
Hoffner, Isaac F. (See Devine, David R. C., assignor.)						
Hoffstetter, Charles H., Erie, Pa. Gas heating-stove	634,498	Oct. 10	988	236	89	215
Hofmann, Albert A., Bloomington, Ill. Fountain-pen	623,474	Apr. 18	2350	540	87	491
Hofmann, Friedrich E., Geringswalde, and F. H. Hofmann, Schönberg, Germany. Device for feeding fuel to boiler-fires	621,339	Mar. 21	1495	331	86	1817
Hofmann, Friedrich H. (See Hofmann, Friedrich E. and F. H.)						
Hofmann, Fritz, Elberfeld, Germany. Ethyl ether of salicylo-carbonic acid	639,174	Dec. 12	1794	------	89	2236
Hofmann, Fritz, Elberfeld, Germany, assignor to Farbenfabriken of Elberfeld Company, of New York. Making carbonates of aromatic series	636,384	Nov. 7	268	------	89	975
Hofmann, Ottokar, Argentine, Kans. Refining cupric-sulfate solutions	634,751	Oct. 10	1442	339	89	303
Hofmeier, Julius. (See Strakosch, Max, assignor.)						
Hofmeyer, Rosalie. (See Willment, George M., assignor.)						
Hofrichter, Theodor, Tetschen, Austria-Hungary. Umbrella-cover	628,006	July 4	91	18	88	19
Hofstatter, Adolph G., New York, N. Y. Couch	619,306	Feb. 14	966	219	86	1018
Hogan, Daniel, New York, N. Y. Bed and douche pan	633,004	Sept. 12	1489	346	88	2015
Hogan, Denis, and F. McMahon, New York, N. Y. Door-closer	617,159	Jan. 3	576	136	86	113
Hogan, George L., Baltimore, Md. Graphophone	632,015	Aug. 29	4227	951	88	1615
Hogan, Harvey. (See Phillips and Hogan.)						
Hogan, Thomas, Toronto, assignor of one-half to J. Wilson, Ottawa, Canada. Non-refillable bottle	638,636	Dec. 5	845	183	89	2028
Hogeboom, Levi S., Minneapolis, Minn., assignor to Knickerbocker Company, Jackson, Mich. Dust-collector	639,387	Dec. 19	2224	515	89	2338
Hogeland, Alexander, Louisville, Ky. Ship-canal	630,457	Aug. 8	1418	316, 317	88	1013
Hogeland, Israel, Chicago, Ill. Match-making machine	626,164	May 30	4125	940	87	1575
Hoggson & Pettis Manufacturing Company. (See Carr, James, assignor.)						
Hoggson, Samuel H., Chicago, Ill. Electromagnetic apparatus for actuating mechanism	617,099	Jan. 3	456	110	86	89
Hoggson, Samuel H., Chicago, Ill. Time-stamp	628,323	July 4	713	165	88	137
Hoglund, Erik, Los Angeles, Cal. Heel-shave	636,231	Oct. 31	4278	981	89	904
Hogrefe, Marius, Copenhagen, Denmark. Device for inserting balls in bearings	619,484	Feb. 14	1267	290	86	1077
Hogue, Etta M. (See Hogue and Jack, assignors.)						
Hogue, Lovren E., Greeneville, Pa. Injector for steam-boilers	629,562	July 25	2996	700	88	639
Hogue, Parker P., and R. C. Jack, assignors to E. M. Hogue, Cincinnati, Ohio. Injector	619,961	Feb. 21	2143	486	86	1270
Hohenstein, Charles H. von, Dallas, Tex. Fan-motor	619,058	Feb. 7	498	104, 105	86	907
Hoit, Jacob R., Des Moines, Iowa. Automatic fly-brush for doorways	633,591	Sept. 26	2641	616	88	2265
Hoit, Jacob R., assignor to T. G. Orwig, Des Moines, Iowa. Curling-iron heater	630,979	Aug. 15	2346	535	88	1217
Hoke, Quinton J., *et al.* (See Campbell, Thomas W., assignor.)						
Hökerstedt, Wilhelm M., and A. V. Westerlund, New York, N. Y. Automatic-lighting torch	633,198	Sept. 19	1876	442	88	2103
Holberg, Ferdinand, New York, N. Y. Pipe	621,918	Mar. 28	2574	580	86	2040
Holberg, Little F., Macon, Miss. Body-warmer	635,891	Oct. 31	3612	833	89	772
Holbrook, William E., *et al.* (See Burt, Elkanah S., assignor.)						
Holck, John H., assignor to Aurora Automatic Machinery Company, Aurora, Ill. Means for detachably securing hubs of crank-arms or like parts to shafts	622,686	Apr. 11	925	213	87	195
Holcomb, Thomas D., New York, N. Y. Pleasure-railway	620,321	Feb. 28	2788	637	86	1407
Holcomb, William H., Staunton, Mich. Boiler-cleaner	629,563	July 25	2998	700	88	639

Alphabetical list of patentees—Continued.

Name, residence, and invention.	No.	Date.	Monthly volume. Spec.	Monthly volume. Dr'g.	Official Gazette. Vol.	Official Gazette. Page.
Holcombe, Henry C., J. W. and F. M. Maddox, Austin, Tex. Metal fastener for envelops, &c	628,324	July 4	715	166	88	137
Holden, Charles N., Chicago, Ill. Raisin-seeder	624,213	May 2	488	105	87	793
Holden, Edward, *et al.* (See Lones, Joseph, assignor.)						
Holden, George P., Kingston, N. Y. Bicycle-saddle	621,607	Mar. 21	1968	439	86	1907
Holden, Henry C. L., London, England. Internal-combustion engine	622,047	Mar. 28	2808	633, 634	86	2086
Holden, Henry C. L., London, England. Making crusher-gages	632,462	Sept. 5	460	104	88	1798
Holden, Henry V. (See Beardmore and Holden.)						
Holden, Joseph, Anniston, Ala. Automatic stopper for cord or rope machines	629,010	July 18	1985	462, 463	88	423
Holden, Sylvanus L. (See McIntire and Holden.)						
Holden, William H., Idaho Falls, Idaho. Sand-band	617,987	Jan. 17	2143	478	86	456
Holden, William J., and A. F. Fielder, assignors of one-half to A. J. Sawyer and A. Havens, Bellevue, Mich. Acetylene-gas generator	639,046	Dec. 12	1571	359, 360	89	2192
Holge, David, Chicago, Ill. Knockdown cot	634,665	Oct. 10	1283	302	89	273
Holinger, Emil F., McKeesport, Pa., assignor to National Tube Works Company, New York, N. Y. Tube-forming apparatus	619,747	Feb. 21	1751	400, 401	86	1194
Holinger, Emil F., McKeesport, assignor to National Tube Company, Pittsburg, Pa. Piercing solid billets for producing hollow metallic objects	638,806	Dec. 12	1165	260	89	2113
Holinger, Emil F., McKeesport, assignor, by mesne assignments, to National Tube Company, Pittsburg, Pa. Apparatus for manufacturing hollow projectiles	638,807	Dec. 12	1167	261	89	2114
Holinger, Emil F., McKeesport, assignor, by mesne assignments, to National Tube Company, Pittsburg, Pa. Vertical piercing-press	638,808	Dec. 12	1169	261, 262	89	2114
Hollan, George, assignor of one-half to D. B. Ruffner, Philadelphia, Pa. Pumping and measuring apparatus for oil, &c	617,019	Jan. 3	299	66	86	60
Holland, Andrew, Ottawa, Canada. Acetylene-gas generator	633,592	Sept. 26	2642	617	88	2265
Holland, Charles L., Boston, Mass. Filter	632,870	Sept. 12	1251	286	88	1971
Holland, George N, assignor of one-half to A. A. Smith, Hampden, Me. Cultivator	625,167	May 16	2213	502	87	1167
Holland, James E, Pittsburg, assignor of one-half to A. Lutz, Allegheny, Pa. Diving apparatus	638,335	Dec. 5	281	58	89	1920
Holland, James T., Stanton Depot, Tenn. Trace-carrier	636,802	Nov. 14	1098	236	89	1170
Holland, William C., Newport, Tenn. Vehicle-spring	619,748	Feb. 21	1753	401	86	1195
Hollander, Theodore, New York, N. Y. Skirt-placket fastener	620,131	Feb. 28	2452	555	86	1343
Hollander, Theodore, assignor of one-half to A. Goldsmith, New York, N. Y. Placket-fastener	630,226	Aug. 1	913	200	88	903
Hollands, Jet G., Detroit, Mich. Vending-machine	629,505	July 25	2910	677	88	622
Hollar, Ralph, Humboldt, Iowa. Thill-coupling	638,710	Dec. 12	998	222	89	2080
Hollar, William H. (See Holmes, Frederick S., assignor.)						
Hollar, William H., Philadelphia, Pa. Burglar-proof safe	621,340	Mar. 21	1496	331, 332	86	1817
Hollar, William H., and A. Kennedy, Philadelphia, Pa.; said Kennedy assignor to said Hollar. Safe-boltwork	621,341	Mar. 21	1500	332, 333	86	1818
Hollaway, Edgar A., Gilroy, assignor of one-half to F. U. Reeve, San José, Cal. Signal-controlling track instrument	618,604	Jan. 31	3322	739	86	709
Hollenbeck, Charles A., and R. F. Wilson, Albany, N. Y. Attachment for type-forming machines	625,679	May 23	3109	707	87	1366
Hollenbeck, Charles F., Syracuse, N. Y. Saddle-clip	627,461	June 20	2327	513	87	2106
Hollenbeck, Edward J., Nelson, Ill. Hinge	629,858	Aug. 1	192	44	88	758
Hollerith, Herman. (See Lanston, Tolbert, assignor.)						
Hollerith, Herman, Washington, D. C. Adding and recording machine	622,470	Apr. 4	491	117, 118	87	92
Holley, Jeremy P., Farmington, Me. Snow-plow	630,699	Aug. 8	1842	415	88	1094
Hollick, Frederick W. (See Hollick, Thomas D. and F. W.)						
Hollick, Thomas D. and F. W., assignors of one-third to J. C. Howell, London, England. Electric motor	619,307	Feb. 14	966	219	86	1018
Holliday, Ayres W., Lexington, Miss. Nut-lock	638,053	Nov. 28	3852	809	89	1787
Holliday, Henry A. (See Harkinson and Holliday.)						
Holliday, Read, assignor to Read Holliday & Sons, Limited, Huddersfield, England. Acetylene-gas-generating lamp	632,117	Aug. 29	4431	996	88	1656
Holliday, Willard W., Morgan county, Ill. Plug-tobacco cutter	637,870	Nov. 28	3518	736	89	1721
Hollifield, Horatio B., Sandersville, Ga. Tire	617,505	Jan. 10	1219	277	86	257
Hollingsworth, Charles M., Newburg, N. Y. Mechanism for producing composite rotary motion	631,306	Aug. 22	2941	665	88	1352
Hollingsworth, Charles M., Newburg, N. Y. Ornamental fountain	636,803	Nov. 14	1099	236	89	1170
Hollingsworth, George H., New York, N. Y., assignor to Consolidated Car Fender Company, Providence, R. I. Street-car fender	628,145	July 4	352	84	88	71
Hollingworth, Leonard C. (See Amback and Hollingworth.)						
Hollis, George H. and R. C., assignors to A. Higgins, Wilmington, Del. Machine for ironing collars	619,959	Feb. 21	2141	485	86	1270
Hollis, George R., McDaniel, Md. Corn-planter	635,323	Oct. 24	2480	576	89	538
Hollis, Henry L., Chicago, Ill. Applying preservative coatings to objects or structures of iron or steel	621,084	Mar. 14	1031	226	86	1712
Hollis, Robert C. (See Hollis, George H. and R. C.)						
Holliwell, Charles, and W. J. Lewis, Broadheath, England, assignors to Mergenthaler Linotype Company, New York, N. Y. Mold for linotype-machines	637,117	Nov. 14	1719	370, 371	89	1290
Holloman, Harvey A., Greenville, Tex. Burglar-alarm	623,019	Apr. 11	1506	349	87	307
Hollow Universal Brake Beam Company. (See Aglar, Francis B., assignor.)						
Holloway, James C., assignor of three-fourths to C. S. Laumeister, San Francisco, Cal. Centrifugal merry-go-round	623,667	Apr. 25	2698	619	87	574
Holloway, William G., and G. W. Reichard, Springfield, Ohio; said Reichard assignor to said Holloway. Cuspidor	617,878	Jan. 17	1954	437	86	420
Holloway, Willis W., Royse City, Tex. Cotton-cultivator wheel	635,685	Oct. 24	3189	734	89	676
Hollweck, Frank S., Philadelphia, Pa. Wrench	622,471	Apr. 4	498	118	87	94
Hollweg, Charles, Belleville, N. J., assignor to Riverside Rubber Company, of New Jersey. Atomizer	636,042	Oct. 31	3888	893	89	826
Holly, Edgar P., Hartford, Conn., assignor to Holly Steam Engineering Company, Hartford, Conn., and Providence, R. I. Water-return system for steam-generators	617,100	Jan. 3	458	111	86	90
Holly Manufacturing Company. (See Decrow, David A., assignor.)						
Holly Steam Engineering Company. (See Holly, Edgar P., assignor.)						
Hollyman, Leslie K., and B. Swearingen, Kansas City, Mo. Combined nut and pipe wrench	620,652	Mar. 7	206	42	86	1541
Holm, Andrew, Chicago, Ill. Folding metal bed	624,493	May 9	1011	227	87	917
Holm, Andrew, Chicago, Ill. Folding metal bed	634,110	Oct. 3	236	59	89	50
Holm, Charles F. (See Corduan, Frank H., assignor.)						
Holm, Katharina, New York, N. Y. Hair-pin	637,510	Nov. 21	2468	535	89	1453

Alphabetical list of patentees—Continued.

Name, residence, and invention.	No.	Date.	Monthly volume.		Official Gazette.	
			Spec.	Dr'g.	Vol.	Page.
Holm, Peter H., Warren, Minn. Gramophone	629,963	Aug. 1	442	95	88	810
Holm, Peter H., Warren, Minn. Fire-extinguishing hand-pump	637,259	Nov. 21	2000	428	89	1360
Holman, James H., Indianapolis, Ind. Formaldehyde-lamp	631,870	Aug. 29	3972	888, 889	88	1566
Holman, William J., Jr., Minneapolis, Minn. System of educational playing-cards	631,766	Aug. 22	3793	845	88	1516
Holmberg, Peter A., assignor of one-half to E. A. Leaf, Los Angeles, Cal. Miter-board attachment	639,388	Dec. 19	2225	515	89	2338
Holmboe, Leonhard C. B, assignor to C. H. Foote, Chicago, Ill. Metal-casting apparatus	620,240	Feb. 28	2639	601, 602	86	1378
Holmen, John P. (See Ferguson and Holmen.)						
Holmes, Alba L. (See Ford, Edwin H., assignor.)						
Holmes, Andrew C., Chicago, Ill., and L. J. Holmes, North Clarendon, Pa. Boot-blacking chair	627,851	June 27	3045	665	87	2265
Holmes, Britain, Buffalo, N. Y. Barrel-header	629,129	July 18	2208	512	88	467
Holmes, Charles B., Minneapolis, Minn. Bicycle-chain	639,575	Dec. 19	2560	588	89	2404
Holmes & Co., J. H. (See Clatworthy, Walter A., assignor.)						
Holmes, Elijah M., *et al.* (See Crafton, Tilman L., assignor.)						
Holmes, Emory F., Columbus, Ga. Shaft-coupling for buggies	637,610	Nov. 21	3027	623	89	1601
Holmes, F. D. (See Wolfe, William, assignor.)						
Holmes, Frederick S., assignor to W. H. Hollar, Philadelphia, Pa. Safe	620,073	Feb. 21	2340	531	86	1307
Holmes, George A., Boston, Mass., assignor to Consolidated Fastener Company, Portland, Me. Button-setting die	625,302	May 16	2459	559	87	1214
Holmes, Grant P., Albion, Mich. Hay and stock rack for vehicles	620,322	Feb. 28	2790	638	86	1408
Holmes, Harriet E., manager. (See Holmes and Bradford, assignors.)						
Holmes, Homer E., Burr Oak, Kans. Door-fastener	635,892	Oct. 31	3613	833	89	773
Holmes, Isabel H., Toronto, Canada. Umbrella-holder	634,526	Oct. 10	1038	248	89	224
Holmes, James B., Minneapolis, Minn. Acetylene-gas generator	629,720	July 25	3284	766	88	694
Holmes, James W., *et al.* (See Crafton, Tilman L., assignor.)						
Holmes, John M., Glens Falls, N. Y. Barrel-cover	634,729	Oct. 10	1407	332	89	297
Holmes, John M., Glens Falls, N. Y. Amalgamator	636,666	Nov. 7	792	175	89	1082
Holmes, Louis J. (See Holmes, Andrew C. and L. J.)						
Holmes, Merton A., Newton, and F. A. Bradford, Boston, Mass., assignors to H. E. Holmes, manager. Leather scouring and setting machine	629,687	July 25	3222	750	88	682
Holmes, Welles E., Newton, Mass. Lamp-socket for street-service	617,464	Jan. 10	1157	264	86	244
Holmes, Welles E., Newton, Mass. Insulator	626,065	May 30	3901	886	87	1534
Holmes, Wheeler H., Pittston, Pa. Child's carriage	639,389	Dec. 19	2227	515, 516	89	2338
Holmes, William, assignor to Morgan & Wright, Chicago, Ill. Device for use in securing elastic tires upon vehicle-wheels	625,769	May 30	3295	747	87	1420
Holmes, William, G. Penny, and J. Hodgson, Jr., Ulverston, England; said Holmes and Penny assignors to said Hodgson. Machine for making labels	623,213	Apr. 18	1884	431, 432, 433	87	395
Holmes, William W. (See Scott and Holmes.)						
Holmgreen, Richard J., San Antonio, Tex. Corn-husking machine	621,919	Mar. 28	2574	580	86	2040
Holmqvist, Carl G., assignor to Aktiebolaget Arvid Bohlmarks Lampfabrik, Stockholm, Sweden. Burner for petroleum-stoves	618,984	Feb. 7	373	78	86	882
Holst, Peter N. (See Pedersen, Adler, and Holst.)						
Holt, Benjamin, Stockton, Cal. Grain-separator	617,486	Jan. 10	1193	271	86	251
Holt, Benjamin, Stockton, Cal. Boiler	639,390	Dec. 19	2228	516	89	2338
Holt, Edwin C. (See Fowler, Henry C., assignor.)						
Holt, Edwin C., *et al.* (See Kinney, John L., assignor.)						
Holt, Frank A. (See Holt and Rose, assignors.)						
Holt, Frank A., Holyoke, Mass. Combination utensil	627,668	June 27	2724	597	87	2201
Holt, George W., Jr., assignor of one-half to H. H. Lacks, Hillard, Mo. Churn	623,668	Apr. 25	2700	619	87	574
Holt, John. (See Pervear, Harrison, and Holt.)						
Holt, John, Lawrence, Mass. Propelling device	619,021	Feb. 7	428	89, 90	86	893
Holt, Ray W., and H. A. Rose, Syracuse, assignors of one-third to F. A. Holt, Omaha, Nebr. Acetylene-gas generator	638,459	Dec. 5	527	108	89	1968
Holt, Robert M., and P. L. Hazlewood, Burlington, N. C. Picker-cam point	630,227	Aug. 1	915	200	88	903
Holt, Thomas, Tarrytown, N. Y. Drive-chain	628,939	July 18	1865	432	88	400
Holt, Thomas, Tarrytown, N. Y. Egg-beater	631,715	Aug. 22	3685	826	88	1499
Holt, Thomas, Stoke-upon-Trent, England. Apparatus for decorating tiles	634,171	Oct. 3	347	88, 89	89	72
Holt, William. (See Wilson and Holt.)						
Holt, William P., Savannah, Ga. Trolley-wheel and support	618,674	Jan. 31	3453	770	86	734
Holten, James M., Fairton, N. J. Oyster-tongs	634,620	Oct. 10	1206	286	89	257
Holthoff, Henry C., assignor of one-half to Edward P. Allis Company, Milwaukee, Wis. Combined ore roasting-oven and cooling-hearth	620,132	Feb. 28	2454	555, 556	86	1344
Holtmann, Julius, Baltimore, Md. Apparatus for making phosphoric acid	629,996	Aug. 1	508	111	88	823
Holton, George L. (See Bossert and Holton.)						
Holton, George L., Utica, N. Y. Quick-break electric switch	636,804	Nov. 14	1103	236	89	1171
Holton, Winfred B., Indianapolis, Ind. Adjustable rocking-chair	622,149	Mar. 28	2997	677	86	2124
Holtsclaw, William C., Newport, Tenn. Ash-pan	639,729	Dec. 26	2849	656	89	2480
Holtz, Gustav, Jamesburg, N. J. Adjustable dental chair	628,244	July 4	527	128	88	105
Holtzer-Cabot Electric Company. (See Bliss, Donald M., assignor.)						
Holtzer-Cabot Electric Company. (See Brueckner, Richard, assignor.)						
Holtzer-Cabot Electric Company. (See Newcomb, Edward C., assignor.)						
Holtzer-Cabot Electric Company. (See Thielscher, Ernest H., assignor.)						
Holtzhausen, Franz, Nossen, Germany. Grain-scourer	622,802	Apr. 11	1110	257	87	230
Holtzmann, George H., St. Louis, Mo. Carriage-body	624,937	May 16	1823	409	87	1094
Holyland, Charles, Pittsburg, Pa. Combined carving-fork guard and knife-sharpener	621,342	Mar. 21	1501	333	86	1818
Holyland, Charles, and C. G. Dice, Pittsburg, Pa. Bicycle name-plate	622,687	Apr. 11	928	213	87	196
Holz, Arno, Wilmersdorf, Germany. Drawing instrument	629,078	July 18	2115	492	88	450
Holzenthaler, Charles J., New York, N. Y. Cap	620,776	Mar. 7	447	92	86	1589
Holzheimer, Henry C., assignor of one-half to P. H. Holzheimer, Louisville, Ky. Singletree attachment	638,120	Nov. 28	4005	843	89	1816
Holzheimer, P. H. (See Holzheimer, Henry C., assignor.)						
Homan, Benjamin H. (See Hagen, Ferdinand J., assignor.)						
Homan, Ernest, London, England. Fireproof floor, ceiling, &c.	640,134	Dec. 26	3584	825	89	2629
Homan, John C., Cincinnati, Ohio. Timber-fastening	627,418	June 20	2253	497	87	2091
Homan, William C., Meriden, Conn., assignor to Edward Miller & Company, of Connecticut. Bracket	622,226	Apr. 4	50	12	87	13
Homan, William C., Meriden, Conn., assignor to Edward Miller & Company, of Connecticut. Gas-burner	624,494	May 9	1012	227	87	917
Homan, William C., Meriden, Conn., assignor to Edward Miller & Company, of Connecticut. Lamp-bracket	639,853	Dec. 26	3082	708	89	2525
Homan, William C., assignor to Edward Miller & Company, Meriden, Conn. Lamp-bracket	623,606	Apr. 25	2598	594	87	556

Alphabetical list of patentees—Continued.

Name, residence, and invention.	No.	Date.	Monthly volume. Spec.	Monthly volume. Dr'g.	Official Gazette. Vol.	Official Gazette. Page.
Homan, William C., assignor to Edward Miller & Company, Meriden, Conn. Bracket	625,032	May 16	1975	441	87	1124
Home, Peter, Bessemer, Mich. Miner's lamp	623,370	Apr. 18	2174	499	87	453
Homestead Valve Manufacturing Company. (See Rylands, James J., assignor.)						
Homman, Grace B., administratrix. (See Homman, W. Forrest.)						
Homman Registering Lock Company. (See Homman, William F., assignor.)						
Homman, W. Forrest, deceased, Colorado Springs, Colo.; G. B. Homman, administratrix. Puzzle	635,251	Oct. 17	2343	547	89	496
Homman, William F., Colorado Springs, Colo., assignor to Homman Registering Lock Company, of Colorado. Seal-lock	628,161	July 4	381	90	88	77
Homolka, Benno, Frankfort, and A. Stock, assignors to Farbwerke, vormals Meister, Lucius & Brüning, Höchst-on-the-Main, Germany. Nitrobenzyliden sulfonic acid and making same	622,854	Apr. 11	1209	------	87	249
Homolka, Benno, Frankfort-on-the-Main, and A. Stock, assignors to Farbwerke, vormals Meister, Lucius & Brüning, Höchst-on-the-Main, Germany. Obtaining nitrobenzylanilin	636,043	Oct. 31	3889	------	89	827
Homolka, Benno, Frankfort-on-the-Main, and A. Stock, assignors to Farbwerke, vormals Meister, Lucius & Brüning, Höchst-on-the-Main, Germany. Obtaining ortho and para nitro benzaldehyde	636,994	Nov. 14	1483	------	89	1247
Honabach, Clarence W., Park Place, Pa. Screening apparatus	621,568	Mar. 21	1906	426	86	1895
Hone, Henry, assignor of two-thirds to W. I. and J. T. Reedy, Chicago, Ill. Flood-gate	625,506	May 23	2820	642	87	1309
Honiball, Charles R., Liverpool, England. Valve	629,789	Aug. 1	49	13	88	730
Honigbaum, Louis H., San Francisco, Cal. Cowl	617,745	Jan. 17	1678	378	86	366
Honisch, Frank, Woodworth, Wis. Corn-husker	618,249	Jan. 24	2662	589	86	568
Hong, Louis K., Parkland, Wash. Windmill	623,402	Apr. 18	2225	510	87	465
Honiss, William H., *et al.* (See Lorenz, William A., assignor.)						
Honnoll, Moses H., and J. M. Droke, Kossuth, Miss. Beehive	618,675	Jan. 31	3454	770	86	735
Honold, Robert, Stuttgart, Germany. Bicycle-tire valve	634,752	Oct. 10	1444	339	89	303
Honson, Cornelius, Smyrna, assignor of one-half to J. Kuhn, Jr., Belding, Mich. Potato-planter	636,667	Nov. 7	793	175, 176	89	1082
Honstain, George T., and C. E. Bird, Minneapolis, Minn.; said Bird assignor of one-third to said Honstain. Coaling-station	626,232	June 6	27	6,7	87	1620
Hontschka, Paul, Breslau, Germany. Apparatus for tightening spokes	618,415	Jan. 31	2995	663	86	647
Hood & Co., John. (See Scholl, Frederick F., assignor.)						
Hood, Cyrus S., Corning, N. Y. Register	633,455	Sept. 19	2370	558	88	2199
Hood, Hiram Q., assignor of three-fourths to E. T. Hardaway, G. Barnhart, E. J. Hunt, H. L. Bright, and A. Hatten, Carthage, and G. J. Hunt, Lamar, Mo. Stove	637,991	Nov. 28	3731	784, 785	89	1764
Hood, John, and S. H. Reynolds, Boston, Mass. Dental engine	622,359	Apr. 4	278	64	87	53
Hood, John C., Wilkinsburg, Pa. Window	626,615	June 6	703	162	87	1751
Hood, John J., London, England. Extracting gold or silver	629,905	Aug. 1	296	------	88	778
Hood, Ralph O., Danvers, Mass., assignor to General Electric Company, of New York. Electric-lighting system	623,607	Apr. 25	2599	594	87	556
Hoofnagle, William T., Baltimore, Md. Type-writing machine	622,472	Apr. 4	500	119	87	94
Hoogerzeil, Peter, Beverly, Mass. Lamp-chimney	631,211	Aug. 15	2755	623	88	1299
Hook, Alexander E. (See Egan and Hook.)						
Hook, Charles, assignor to J. Lambert, Battle Creek, Mich. Nut-mill	625,394	May 23	2624	596	87	1272
Hooker, Egbert J., Poultney, Vt. Elevator-carrier	632,118	Aug. 29	4432	996	88	1656
Hooker, Frank B., St. Johnsbury, Vt. Floor-boring machine	621,250	Mar. 14	1327	294	86	1771
Hooker, William D., St. Louis, Mo. Revolving adjustable equipoise-weight	632,684	Sept. 5	900	209	88	1888
Hooker, William D., Chicago, Ill. Double-acting submerged pump	638,926	Dec. 12	1368	312	89	2153
Hookham, George, Birmingham, England. Automatic gun	621,085	Mar. 14	1033	226, 227	86	1713
Hooks, William A., assignor of one-half to F. Disroon, Macon, Ga. Cutter for biscuits, cakes, or other articles	619,749	Feb. 21	1754	402	86	1195
Hoon, John M., assignor to Fort Dearborn Iron Company, Chicago, Ill. Metallic railway-tie	626,233	June 6	31	7	87	1621
Hooper, Daniel H. B., Biddeford, Me. Machine for transferring differential motion	628,094	July 4	255	60	88	51
Hooper, David S., *et al.* (See Isgrig, Eli F., assignor.)						
Hooper, George H. B., Toronto, Canada. Electric brake	634,666	Oct. 10	1284	303	89	273
Hooper, George H. B., Toronto, Canada. Electromagnetic cylinder-engine	634,667	Oct. 10	1285	303	89	273
Hooper, George J. (See Smith, Harry F., assignor.)						
Hooper, Johnson M., Sr., and J. R. Daniels, San Antonio, Tex. Truck	623,669	Apr. 25	2702	619	87	575
Hooper, Louis M., Rutherford, N. J., assignor to J. L. Mott Iron Works, New York, N. Y. Waste-valve for basins or baths	634,347	Oct. 3	727	173	89	146
Hooper, William, Ticonderoga, N. Y., assignor to C. H. Unverzagt, Baltimore, Md. Ore-separator	633,456	Sept. 19	2371	558, 559	88	2199
Hoopes, Maurice, Lynn, Mass. Safety appliance for electric railways	628,177	July 4	414	98	88	84
Hoople, William H. (See Force, Edgar J., assignor.)						
Hoover, Horace M., Perrysburg, Ohio. Machine for producing wood fiber	624,938	May 16	1825	409	87	1094
Hoover, James H., near Argenta, Ill. Animal-trap	617,160	Jan. 3	578	136	86	113
Hoover, James H., near Argenta, Ill. Cider-press	623,280	Apr. 18	2008	460, 461, 462	87	421
Hope Electric Appliance Company. (See Bernardini and Ely, assignors.)						
Hope, John and John, Jr., assignors to John Hope & Son's Engraving Company, Providence, R. I. Grounding attachment for pantograph engraving-machines	638,927	Dec. 12	1370	312, 313	89	2153
Hope, John T., Kalamazoo, Mich. Hook and eye	620,993	Mar. 14	864	188	86	1681
Hope-Jones, Frank, and G. B. Bowell, London, England. Electric-clock system	628,325	July 4	717	166	88	138
Hope Webbing Company. (See Steere, Oscar A., assignor.)						
Hope, William M., assignor of one-fourth to C. A. Smurthwaite, Ogden, Utah. Car-seal	620,323	Feb. 28	2791	638	86	1408
Hopewell, John A., Arnprior, Canada. Spike-puller	622,150	Mar. 28	2998	678	86	2125
Hopewell, John A., assignor of one-third to W. B. Craig, Arnprior, Canada. Marine propeller	637,611	Nov. 21	3029	624	89	1602
Hopkins, Addison S., Bridgeton, R. I. Fulling-mill	632,119	Aug. 29	4434	996	88	1657
Hopkins, Addison S., Bridgeton, R. I. Fulling-mill	634,943	Oct. 17	1760	418, 419	89	382
Hopkins, Albert N., Duluth, Minn., and F. P. Hopkins, Hyattsville, Md., assignors of one-half to M. W. Bates, St. Paul, Minn. Grain-car door	627,852	June 27	3046	665, 666	87	2265
Hopkins & Allen Manufacturing Company. (See Grimes, Alvah E., assignor.)						
Hopkins, Edward P., New York, N. Y. Carbon-feeding mechanism	618,509	Jan. 31	3161	698, 699	86	678
Hopkins, Franklin P. (See Hopkins, Albert N. and F. P.)						
Hopkins, Harvey L., assignor of two-thirds to C. H. Pope, Moline, Ill., and M. D. Hopkins, West Eaton, N. Y. Mowing-machine	638,714	Dec. 12	1003	225	89	2081
Hopkins, Harvey L., assignor of two-thirds to C. H. Pope, Moline, Ill., and M. D. Hopkins, West Eaton, N. Y. Cutting apparatus for mowers and reapers	638,715	Dec. 12	1006	225, 226	89	2082

Alphabetical list of patentees—Continued.

Name, residence, and invention.	No.	Date.	Monthly volume. Spec.	Monthly volume. Dr'g.	Official Gazette. Vol.	Official Gazette. Page.
Hopkins, Heber A. (See Tufts and Hopkins.)						
Hopkins, Henry W. (See Hopkins, William D. and H. W.)						
Hopkins, Howard R., *et al.* (See Hackett, Thomas C., assignor.)						
Hopkins, James M., Chicago, Ill. Car-door	622,360	Apr. 4	281	64	87	54
Hopkins, Leslie, Kansas City, Mo. Packing for piston-rods	621,817	Mar. 28	2379	531	86	2002
Hopkins, Liston P., Rosedale, Oreg. Weeder	618,098	Jan. 24	2373	530	86	515
Hopkins, Merwin D., *et al.* (See Hopkins, Harvey L., assignor.)						
Hopkins, Nevil M., Washington, D. C. Apparatus for preventing bursting of water-pipes by freezing	626,908	June 13	1312	289	87	1886
Hopkins, Nevil M., Washington, D. C. Apparatus for preventing bursting of water-pipes by freezing	630,700	Aug. 8	1843	415	88	1094
Hopkins, Oliver S., L. Rush, and M. R. Davids, Edgar Springs, Mo. Currycomb	634,458	Oct. 10	922	220	89	201
Hopkins, Randolph C., Glenville, assignor to Patterson-Sargent Company, Cleveland, Ohio. Gate-can	619,750	Feb. 21	1755	402	86	1195
Hopkins, Robert G., Somerville, Mass. Type-writer ribbon	622,361	Apr. 4	282	65	87	54
Hopkins, Robert G., Somerville, assignor, by mesne assignments, to Carter's Ink Company, Boston, Mass. Inkstand-shield	630,055	Aug. 1	624	136	88	847
Hopkins, William C., Holyoke, Mass. Paper-pile-jogging machine	623,371	Apr. 18	2175	449	87	453
Hopkins, William D., Goffstown, and H. W. Hopkins, Wilton, N. H. Thill-coupling	623,214	Apr. 18	1887	433	87	395
Hopkinson, Ernest, East Orange, N. J. Method of and apparatus for making panoramic photographs	638,582	Dec. 5	743	159, 160	89	2008
Hopkinson, John, London, England. Automatic switch for distribution of electricity	618,175	Jan. 24	2540	561, 562	86	545
Hoppe, Charles, Cincinnati, Ohio. Vapor-stove	631,792	Aug. 29	3849	857	88	1540
Hoppe, Edward L., St. Louis, Mo. Strainer for liquor-barrel faucets	623,805	July 11	1622	374	88	338
Hoppe, Max. (See Petterson, Anders P., assignor.)						
Hoppenstedt, Alfred W., Binghamton, and R. J. Decker, New York, N. Y. Beet-pulp drier	627,419	June 20	2254	497, 498	87	2092
Hopper, Alfred and T. R., Highland, N. Y. Insect-powder duster	637,118	Nov. 14	1725	371	89	1291
Hopper, Charles S., Philadelphia, Pa. Can-opener	634,111	Oct. 3	237	60	89	50
Hopper, George S., Ithaca, N. Y. Carriage-curtain stay	631,523	Aug. 22	3334	758	88	1431
Hopper, Greenberry B., Santa Maria, Cal. Dropping mechanism for planters	637,612	Nov. 21	3030	624	89	1602
Hopper, James B., Lawson, Mo. Shipping-case	626,325	June 6	204	50	87	1652
Hopper, Thomas R. (See Hopper, Alfred and T. R.)						
Hoppert, John P., Baltimore, Md. Bicycle support and lock	638,121	Nov. 28	4006	843, 844	89	1816
Hoppes, John J., Springfield, Ohio. Meter box or case	620,588	Mar. 7	66	13	86	1516
Hopps, John H., assignor to Fulton Engineering and Ship-Building Works, San Francisco, Cal. Air-compressor	638,460	Dec. 5	530	108, 109	89	1968
Horan, James H., Louisville, Ky. Gutter-stay and hanger-strap	626,757	June 13	983	222	87	1823
Hore, Charles E., assignor, by mesne assignments, to F. L. Lavanburg, New York, N. Y. Insecticide and making same	617,020	Jan. 3	301	------	86	60
Horgan, Charles D., Omaha, Nebr. Car-coupling	639,391	Dec. 19	2230	516	89	2339
Horgan, Stephen H., Hoboken, N. J. Method of and apparatus for securing engraved plates to stereotypes	620,133	Feb. 28	2455	557	86	1344
Horle, Francis A., Boston, Mass. Cabinet	633,318	Sept. 19	2129	499	88	2153
Horlick, William, Racine, Wis. Malted food product and making same	627,119	June 20	1680	------	87	1978
Hörmann, Rudolph, Hoboken, N. J. Button	631,212	Aug. 15	2756	623	88	1299
Hormby, John, New York, N. Y. Gripping device or carrier	629,997	Aug. 1	509	111, 112	88	824
Horn, Andrew J., Litchfield, Ill. Baby-carriage	629,688	July 25	3225	751	88	683
Horn, Carl, Kappel, Germany. Machine for printing stockings, &c	631,716	Aug. 22	3687	827	88	1500
Horn, E. (See Colclazer and Munger, assignors.)						
Horn, Georg. (See Hirt and Horn.)						
Horn, George W., Doe Run, Mo. Window-shade fixture	629,364	July 25	2626	610	88	506
Horn, Jakob, Busendorf, Germany. Glove	622,688	Apr. 11	929	214	87	196
Horn, Joseph, Philadelphia, Pa. Bicycle	635,964	Oct. 31	3730	862	89	794
Horn, Joseph L., and J. Quinn, Jr., Denver, Colo.; said Quinn assignor to said Horn. Coupon check-envelop	639,983	Dec. 26	3324	761	89	2575
Horn, Louis, assignor of five-sixths to M. Zeitler, A. Schellong, R. E. Drinhaus, S. S. Wenzel, and T. P. Mumford, Philadelphia, Pa. Ball-bearing	629,564	July 25	2999	700	88	639
Horn, Schooler C., Bladensburg, Ohio. Storm or sun shade for horses' heads	626,424	June 6	384	90	87	1689
Horn, William H., San Francisco, Cal., and C. L. Wain, Kamloops, Canada. Shank for cornets	629,254	July 18	2419	560	88	505
Hornback, Charles P., Chester, Ark. Adjustable stand for supporting and displaying purposes	626,541	June 6	590	136	87	1728
Horne, James, Barrow-in-Furness, assignor to Vickers, Sons & Maxim, Limited, Sheffield, England. Rotating and braking mechanism for turrets, &c	630,228	Aug. 1	916	201	88	903
Horne, John H. (See Barrett and Horne.)						
Horne, Rolland H., Rye, assignor to J. L. Mott Iron Works, New York, N. Y. Folding plate for gas-stoves	624,214	May 2	491	105	87	793
Horne, Winslow L., Malden, assignor to New Process Coating Company, Boston, Mass. Nail.	639,984	Dec. 26	3324	762	89	2575
Horner, Paoli B., and C. E. Hedrick, Clements, Kans. Corn-harvester	636,143	Oct. 31	4108	940	89	870
Horney, Edward L., Chillicothe, Ohio. Copy-book	636,432	Nov. 7	345	78	89	991
Horning, Martin L., Albion, Mich. Pyramidal hat-box	628,465	July 11	968	224	88	207
Horning, Ralph T., New Philadelphia, Ohio, assignor to J. H. Brown, Rural Retreat, Va. Metallic harrow	623,082	Apr. 11	1612	371	87	329
Hornish, Frank W., assignor of one-half to A. C. Clark, Chicago, Ill. Mechanical boiler-cleaner	632,785	Sept. 12	1101	254, 255	88	1940
Hornqvist, Frank, Mount Jewett, Pa. Saw-handle	622,362	Apr. 4	283	65	87	54
Hornsteiner, Rudolf, Prague-Zizkov, Austria-Hungary. Apparatus for manufacturing horseshoe studs or calks	621,818	Mar. 28	2381	532	86	2002
Horr, William B., and C. H. Gibbons, Jackson, Cal. Clay or gravel washing machine	636,995	Nov. 14	1485	319	89	1247
Horr, William W., St. Thomas, Canada. Well-boring device	622,473	Apr. 4	505	120	87	95
Horrocks, Frank I., Sale, England. Dyeing	630,507	Aug. 8	1503	------	88	1028
Horry, William S., Sault Ste. Marie, Mich., assignor to E. V. Douglas, Philadelphia, Pa. Producing carbid of calcium	628,806	July 11	1623	374	88	338
Horsfield, John, Chicago, Ill. Weather-strip	632,922	Sept. 12	1362	314	88	1990
Horsky, Edward, *et al.* (See Smith, Henry F., assignor.)						
Horspool, Francis L., and G. J. Kelly, Ogden, Utah. Door and deflector-plate for steam-boiler furnaces	626,280	June 6	113	30	87	1635
Horst, Emil C., San Francisco, Cal. Interchangeable coal and gas grate	620,709	Mar. 7	316	64, 65	86	1563
Horton Basket Machine Company. (See Du Bois, Rhesa G., assignor.)						
Horton Basket Machine Company. (See Horton, Emmet, assignor.)						
Horton, Charles M., Superior, Wis. Bridge construction	621,672	Mar. 21	2094	468, 469	86	1933

Alphabetical list of patentees—Continued.

Name, residence, and invention.	No.	Date	Monthly volume: Spec.	Monthly volume: Dr'g.	Official Gazette: Vol.	Official Gazette: Page.
Horton, Edward, *et al.* (See Pugh, William J., assignor.)						
Horton Electric Obtunding Company. (See Horton, Wiliam P., Jr., assignor.)						
Horton Electric Obtunding Company. (See Keller, Charles A., assignor.)						
Horton, Emmet, Dundee, N. Y., assignor, by mesne assignments, to Horton Basket Machine Company, Washington, D. C. Basket-making machine	635,723	Oct. 24	3247	748, 749	89	689
Horton, Emmet, Elmira, N. Y., assignor, by mesne assignments, to Horton Basket Machine Company, Washington, D. C. Basket-making machine	635,724	Oct. 24	3251	749, 750	89	690
Horton, Emmet, Elmira, N. Y., assignor to Horton Basket Machine Company, Washington, D. C. Basket-making machine	635,725	Oct. 24	3256	750, 751, 752, 753, 754, 755	89	690
Horton, Emmet, Elmira, assignor to Horton Basket Machine Company, New York, N. Y. Basket-making machine	635,726	Oct. 24	3269	755, 756	89	692
Horton, Fredrick B., assignor to G. W. Young, Lynn, Mass. Holder or support for graphophone-cylinders	637,933	Nov. 28	3630	761	89	1743
Horton, Hazen A., assignor of one-half to E. P. Keep, Tekonsha, Mich. Corn compressor or binder	620,869	Mar. 7	621	135	86	1625
Horton, Hazen A., assignor of one-half to E. P. Keep, Tekonsha, Mich. Device for retaining unruly hogs	621,343	Mar. 21	1503	333	86	1818
Horton, James A., Reading, Mass. Drop-hammer	632,265	Sept. 5	103	22, 23	88	1727
Horton, James A., and C. Wing, Greenfield, Mass. Mailer	624,806	May 9	1574	358	87	1029
Horton, Louis S., Fairview, Ark. Plow	622,803	Apr. 11	1111	257	87	230
Horton Manufacturing Company. (See Grey, Sylvester P., assignor.)						
Horton, Stephen D., Peekskill, N. Y. Thill-hook for holdback-straps	639,985	Dec. 26	3325	762	89	2575
Horton, William M. (See Baumhoff and Schmid, assignors.)						
Horton, William P., Jr., assignor to Horton Electric Obtunding Company, Cleveland, Ohio. Method of and apparatus for administering therapeutic electricity	622,922	Apr. 11	1332	306	87	271
Hosack, Harold H., London, England. Road-breaking machinery	622,804	Apr. 11	1112	258, 259	87	230
Hoshour, Josiah W., York, Pa. Folding table	628,712	July 11	1448	337	88	301
Hoskin, Albert A., assignor to F. W. Herbert, Denver, Colo. Manuscript-cabinet	620,777	Mar. 7	448	92	86	1589
Hoskin, John, Philadelphia, Pa. Fluid-actuated or fluid-forcing device	632,474	Apr. 4	507	120	87	95
Hoskins, Bird, Middlefield, Ohio. Evaporating-pan	640,135	Dec. 26	3585	825	89	2629
Hoskins, Henry H., Norcatur, Kans. Printing-press	630,701	Aug. 8	1844	416	88	1094
Hoskins, Nathan, Minneapolis, Minn. Transom adjuster and lock	622,363	Apr. 4	284	65, 66	87	54
Hoskins & Son. (See Chamberlain, Arthur N., assignor.)						
Hoskins, William, Chicago, Ill. Assay-furnace	619,044	Feb. 7	469	98	86	901
Hosler, John W., and C. F. Pressler; said Pressler assignor to J. Griffith, Fort Wayne, Ind. Acetylene-gas machine	631,213	Aug. 15	2756	623	88	1299
Hosmer, Arthur, Fort Worth, Tex., assignor of one-half to J. G. Mark, Davenport, Iowa, and L. B. Menefee, Houston, Tex. Rotary and folding chair	636,405	Nov. 7	297	67	89	981
Hosp, Jacob A. (See Mills, Edward, assignor.)						
Hossfeld, William, Wichita, Kans. Trunk	621,086	Mar. 14	1034	227	86	1713
Hostetter, Jacob, and J. Y. Kline, Florin, Pa. Plant-setter	637,464	Nov. 21	2386	517	89	1437
Hostrasser, Charles J. (See Pugh, Erastus T., assignor.)						
Hotchkiss, Edward S., Bridgeport, Conn. Clipper	621,673	Mar. 21	2099	469	86	1934
Hotchkiss, Edward S., Bridgeport, Conn. Clipper	621,674	Mar. 21	2103	469	86	1935
Hotchkiss, Emerson M. (See Hay, Walter, assignor.)						
Hotchner, Joseph, Providence, R. I. Brush	636,144	Oct. 31	4111	941	89	871
Hotz, Christoph, Chicago, Ill. Sand-band	617,746	Jan. 17	1679	378	86	367
Hotz, Henry H., Cuero, assignor of two-thirds to H. M. Finch, Austin, Tex., and W. S. Negus, St. Louis, Mo. Device for removing dents from gun-barrels	621,675	Mar. 21	2107	470	86	1936
Hotze, William, St. Louis, Mo. Hair-drying comb	633,457	Sept. 19	2374	559	88	2200
Houck, Howard M. (See Compton and Houck.)						
Houée, Alfred, Rennes, France. Rolling skate	623,717	Apr. 25	2781	636	87	589
Hough, Arthur. (See Hanscom and Hough.)						
Hough, Azel C., South Butler, N. Y., assignor to Hough Cash Recorder Company, Indian Orchard, Mass. Manual sales-recorder	618,034	Jan. 17	2231	497	86	473
Hough, Azel C., South Butler, N. Y., assignor to Hough Cash Recorder Company, Indian Orchard, Mass. Cash-recorder	618,035	Jan. 17	2235	498	86	473
Hough, Benjamin F., Wilmerding, assignor of one-half to P. H. Keefe, Sharpsburg, Pa. Belt-fastener	628,326	July 4	721	167	88	138
Hough Cash Recorder Company. (See Hough, Azel C., assignor.)						
Hough, Charles W. (See McKenzie and Hough.)						
Hough, Orson E. (See Ellison, Jeff S., assignor.)						
Houghtaling, Walter A. New York, N. Y., assignor to Postal Telegraph-Cable Company, of New York. Transmitter for multiple telegraphs	620,778	Mar. 7	451	93	86	1589
Houghtaling, William N., Ansonia, Conn. Collar-supporter for harness	628,713	July 11	1450	337	88	302
Houghtaling, William N., Ansonia, Conn. Spring-board seat for dumping-carts	633,381	Sept. 19	2247	529	88	2175
Houghtlin, Alfred, assignor to R. Hoe, T. H. Mead, and C. W. Carpenter, New York, N. Y. Cutting-stick and retaining device therefor	628,466	July 11	969	224	88	207
Houghton & Co., E. F. (See Lyon, Charles W., assignor.)						
Houghton, Edward W., assignor to H. S. Houghton, Woonsocket, R. I. Marker for sliver-cans	623,083	Apr. 11	1613	371	87	329
Houghton, George R., Harvard, Mass. Bunching apparatus for asparagus	638,461	Dec. 5	532	109	89	1969
Houghton, Grant S., *et al.* (See Weaver and Houghton, assignors.)						
Houghton, Henry S. (See Houghton, Edward W., assignor.)						
Houghton, Lemuel H. (See Weaver and Houghton.)						
Houghton, Louis S. (See Nelson, William O., assignor.)						
Houghton, Perry S., Lindsey, Pa. Pump-valve stem	636,145	Oct. 31	4111	941	89	871
Houghton, Perry S., Lindsey, Pa. Piston-rod for steam-pumps	636,668	Nov. 7	795	176	89	1083
Houghton Register Company (See Houghton, Stephen C., assignor.)						
Houghton, Samuel H., Harvard, Mass. Egg-carrier	629,506	July 25	2912	678	88	622
Houghton, Stephen C., San Francisco, Cal. Bicycle-lock	623,084	Apr. 11	1614	371	87	329
Houghton, Stephen C., San Francisco, Cal. Mechanical movement	630,830	Aug. 8	2064	466	88	1140
Houghton, Stephen C., San Francisco, Cal., assignor to Houghton Register Company, of California. Fare-receiver	621,087	Mar. 14	1035	227	86	1713
Houghton, Stephen C., San Francisco, Cal., assignor to Houghton Register Company, of California. Fare-register	628,223	July 4	487	117, 118	88	97
Houghton, Stephen C., San Francisco, Cal., assignor to Houghton Register Company. Combined rope-clutch and handle	628,224	July 4	494	118	88	99
Houghton, William, New York, N. Y. Door for ships' bulkheads	629,790	Aug. 1	51	14	88	731
Hougland, Harvey H., Neligh, Nebr. Air-accumulator	639,047	Dec. 12	1574	360	89	2193

Alphabetical list of patentees—Continued.

Name, residence, and invention.	No.	Date.	Monthly volume.		Official Gazette.	
			Spec.	Dr'g.	Vol.	Page.
Houk, L. W. (See Boor, Daniel H., assignor.)						
House, Charles A., and F. A. Dupea, Tacoma, Wash. Smelting stack-furnace	621,088	Mar. 14	1038	228	86	1714
House, Henry A., Jr., East Cowes, Isle of Wight, England. Wheel for vehicles	632,463	Sept. 5	461	104	88	1798
House, Isaac M. (See Grant, Overn, and House.)						
House, Milton C., Panola, Ark. Sliding gate and pulley attachment	632,569	Sept. 5	663	153, 154	88	1837
Houser Springless Lock Company. (See Houser, Winfield S., assignor.)						
Houser, Winfield S., Bellefonte, Pa., assignor to Houser Springless Lock Company, of Pennsylvania. Lock	626,616	June 6	704	163	87	1751
Housh, Frank E., assignor to H. W. Bustin, Boston, Mass. Check-marker	632,266	Sept. 5	106	23	88	1728
Houston, David H., Hunter, N. D. Magazine-camera	639,730	Dec. 26	2850	657	89	2480
Houston, Edwin J., and A. E. Kennelly, Philadelphia, Pa. Safety device for electric circuits	625,395	May 23	2625	597	87	1272
Houston, Everett A., Niobrara, Nebr. Salt-cellar	633,593	Sept. 26	2643	617	88	2265
Houston, George W., Marietta, assignor to himself, F. C. Ravesies, Owensborough, and W. N. Ferguson, Dade City, Fla. Tanning	623,403	Apr. 18	2227	------	87	465
Houston, John B., Vancouver, Canada. Draft-economizer for furnaces	627,853	June 27	3047	666	87	2265
Houston, John B., assignor to W. H. Armstrong and A. Morrison, Vancouver, Canada. Retort-door and means for closing same	638,122	Nov. 28	4009	844	89	1817
Houts, John R., Washington, D. C. Combination-lock	635,546	Oct. 24	2943	672	89	629
Hövermann, Carl R. G., Hamburg, Germany. Stopper for bottles or jars	636,801	Nov. 14	1097	235	89	1170
Hovey, Sumner A., Stoneham, Mass. Convertible nursery-chair	631,076	Aug. 15	2530	573	88	1254
Hovsepian, Joseph, Paterson, N. J. Ironing-board	626,493	June 6	508	118	87	1712
Hovsepian, Joseph, assignor of one-half to T. Aslanian, Paterson, N. J. Oven-shelf	620,324	Feb. 28	2792	638	86	1408
Howard, Albert C., Brookline, Mass. Clock-dial	631,466	Aug. 22	3223	732, 733	88	1409
Howard, Andrew D., Atlanta, Ga. Draining-stand for measuring vessels	637,963	Nov. 28	3679	773	89	1753
Howard, Augustus, San Francisco, Cal., assignor to W. R. Green, Denver, Colo. Screw-propeller	617,527	Jan. 10	1263	287, 288	86	266
Howard, Augustus, San Francisco, Cal., assignor to W. R. Green, Denver, Colo. Valve-gear for engines	617,528	Jan. 10	1267	288	86	267
Howard, Augustus, San Francisco, Cal., assignor to W. R. Green, Denver, Colo. Motive engine	617,529	Jan. 10	1270	288	86	268
Howard, Augustus, San Francisco, Cal., and W. R. Green, Denver, Colo.; said Howard assignor to said Green. Direct conversion of energy of fuel and an expansion medium into power	617,530	Jan. 10	1272	289, 290	86	268
Howard & Bullough American Machine Company. (See Potter, James C., assignor.)						
Howard, Charles, London, England. Electric incandescent lamp	622,151	Mar. 28	2999	678	86	2125
Howard, Clarence H. (See Schaffer, Morse B., assignor.)						
Howard, David. (See Ham, Lewis J., assignor.)						
Howard, Edward J., assignor to M. A. Sullivan, New York, N. Y. Automatic advertising device	636,337	Nov. 7	180	40	89	957
Howard, Franklin E., Buffalo, N. Y. Shade-frame	632,120	Aug. 29	4435	997	88	1657
Howard, Geoffrey. (See Howard and Gibbs.)						
Howard, George B., Somerville, Mass. Fusee thrower and guide	627,232	June 20	1870	410	87	2015
Howard, George R., Neola, Iowa. Mail-bag	619,022	Feb. 7	430	90	86	893
Howard, Harley F., Cripple Creek, Colo. Feed-water purifier and heater for steam-boilers	622,805	Apr. 11	1114	259	87	231
Howard, Henry, Brookline, Mass. Extraction of zinc and copper from ores	623,154	Apr. 18	1785	------	87	376
Howard, Henry, Brookline, Mass. Hydrocarbon-burner	634,642	Oct. 10	1234	293, 294	89	263
Howard, Herbert A., Huntington, N. Y. Squid	635,547	Oct. 24	2944	672	89	629
Howard, James B., Columbus, Ohio. Heating-stove	626,997	June 13	1473	322, 323	87	1918
Howard, James H. and G., and G. Gibbs, Bedford, England. Baling-press	631,639	Aug. 22	3545	798, 799, 800	88	1474
Howard, Lewis, assignor of one-third to J. C. Lawrence, Marshall, Minn. Leveling apparatus for railways	619,751	Feb. 21	1756	402	86	1195
Howard, Louis C., Grand Rapids, Mich. Bicycle-pedal	626,165	May 30	4128	940	87	1576
Howard, Lyman D., Philadelphia, Pa. Electric railway	635,252	Oct. 17	2345	547, 548	89	496
Howard, Samuel, Manchester, England. Organ attachment	625,770	May 30	3297	748	87	1421
Howard, Samuel, Manchester, England. American organ	638,843	Dec. 12	1222	275	89	2124
Howard, Samuel I., Worcester, Mass. Skylight-lifter	636,338	Nov. 7	181	40	89	957
Howard Thermostat Company. (See Sprague, Frank J., assignor.)						
Howard, Thomas, Ashland, Ky. Filter	632,570	Sept. 5	664	154	88	1838
Howard, Warren. (See Bump, George P., assignor.)						
Howard, William, London, England. Pneumatic tire	620,779	Mar. 7	452	93	86	1590
Howard, William, assignor of one-half to E. Hilton, Woonsocket, R. I. Spinning-mule	624,939	May 16	1827	410	87	1095
Howard, William H., Malden, Mass. Bowling-alley pin	624,807	May 9	1577	359	87	1030
Howard, William H., Malden, Mass. Bowling-alley ball	624,808	May 9	1578	359	87	1031
Howarth, Sarah S., New York, N. Y. Bicycle attachment	627,693	June 27	2764	605	87	2209
Howden, James, Glasgow, Scotland. Air-feeding apparatus for boiler-furnaces	634,348	Oct. 3	729	174	89	146
Howe, Bertha S. (See Howe, Charles T., assignor.)						
Howe, Charles T., assignor to B. S. Howe, Columbus, Ohio. Key mechanism for flutes or clarinets	624,034	May 2	153	34	87	732
Howe, Charles W., Waltham, Mass. Soap and soap-holder	624,809	May 9	1579	359	87	1031
Howe, Eugene L., Muskegon, Mich. Axle-box for cars	627,420	June 20	2255	498	87	2092
Howe, Florence D. and J. E., assignors to themselves and J. R. Littell, New York, N. Y. Skirt and waist supporting device	625,334	May 23	2526	574, 575	87	1253
Howe, Frank M., Lawrence, Mass. Switch stick or bar	636,406	Nov. 7	300	68	89	981
Howe, Glenn G., Indianapolis, Ind., assignor to Ewart Manufacturing Company, Chicago, Ill. Chain	623,959	Apr. 25	3255	749	87	681
Howe, Glenn G., Indianapolis, Ind., assignor to Ewart Manufacturing Company, Chicago, Ill. Chain	627,694	June 27	2764	606	87	2209
Howe, Henry W., assignor of one-half to H. S. Dinkins, Mexico, Mexico. Fishing-reel brake	623,718	Apr. 25	2782	636	87	590
Howe, Jeremiah, Detroit, Mich. Drying apparatus	632,943	Sept. 12	1391	321, 322	88	1996
Howe, John B., Danbury, Conn. Speed-gearing for bicycles	636,385	Nov. 7	270	60	89	975
Howe, John E. (See Howe, Florence D. and J. E.)						
Howe, John J., Wilmington, Del. Blacking-brush	627,421	June 20	2256	498	87	2092
Howe, John M., San Francisco, Cal. Machine for filling and folding packages	628,178	July 4	416	98	88	84
Howe, Lewis A., Boston, Mass. Stop mechanism for plungers	639,175	Dec. 12	1795	415	89	2236
Howe, Lizzie E., New York, N. Y. Skirt or garment binding	621,089	Mar. 14	1040	228	86	1714

Alphabetical list of patentees—Continued.

Name, residence, and invention.	No.	Date.	Monthly volume. Spec.	Monthly volume. Dr'g.	Official Gazette. Vol.	Official Gazette. Page.
Howe, Martin V. B., Gardner, Mass. Sanding-machine	635,777	Oct. 31	3376	780	89	727
Howe, Maurice D. (See Dexter, William H., assignor.)						
Howe, Oliver I., Beverly, assignor to Morley Finishing Machine Company, Boston, Mass. Boot or shoe tree	623,085	Apr. 11	1615	371	87	329
Howe, Patrick, assignor of five-sixths to Fenno Cloth Cutting Machine Company, Boston, Mass. Cloth-cutter	637,613	Nov. 21	3032	624	89	1603
Howe, Patrick, assignor of five-sixths to Fenno Cloth Cutting Machine Company, Boston, Mass. Take-up mechanism for cloth-cutters, &c	637,614	Nov. 21	3034	625	89	1603
Howe, Percy C., Boston, Mass. Push-button	638,680	Dec. 5	942	210	89	2051
Howe, Solon G., Detroit, Mich., assignor to J. W. Hyde, Springfield, Mass. Sewing-machine	620,134	Feb. 28	2457	557 558	86	1344
Howe, Solon G., Detroit, Mich., assignor to J. W. Hyde, Springfield, Mass. Sewing-machine	620,135	Feb. 28	2461	558 559	86	1345
Howe, Thomas B., Scranton, Pa. Sand-drier	633,005	Sept. 12	1490	346 347	88	2016
Howe, Thomas J., D. J. Ames, and H. N. Labare, assignors to Owatonna Manufacturing Company, Owatonna, Minn. Gate-valve for churns	634,730	Oct. 10	1409	332	89	298
Howe, Thomas J., D. J. Ames, and H. N. Labare, assignors to Owatonna Manufacturing Company, Owatonna, Minn. Cultivator or grain-drill tooth	637,390	Nov. 21	2260	487	89	1412
Howe, Walter H., London, England. Apparatus for recording votes	628,095	July 4	257	61, 62	88	52
Howe, William. (See Hammond, Robert, assignor.)						
Howe, William R., Dayton, Ohio. Elastic-tread horseshoe	621,090	Mar. 14	1042	228	86	1714
Howe, William R., Dayton, Ohio, assignor to H. B. Haigh, New York, N. Y., and H. W. Fullerton, East Orange, N. J. Elastic-tread horseshoe	637,791	Nov. 28	3353	703	89	1688
Howe, William R., Dayton, Ohio, assignor to H. B. Haigh, New York, N. Y., and H. W. Fullerton, East Orange, N. J. Drop-forging	637,792	Nov. 28	3354	703	89	1688
Howell, Adison P., Flushing, Ohio. Vehicle-brake	630,702	Aug. 8	1847	416	88	1095
Howell, Charles C., assignor of one-half to R. Roy, Bradford, Pa. Oil or Artesian well drilling and pumping rig	631,504	Aug. 22	3304	751	88	1425
Howell, Charles D., assignor of two-thirds to M. S. Connors and S. S. Stiffey, Columbus, Ohio. Apparatus for generating acetylene gas	635,727	Oct. 24	3272	756	89	692
Howell, Commodore O. P., Washington, D. C. Composite fuel and making same	624,495	May 9	1013	------	87	918
Howell, George B., Philadelphia, Pa. Water-closet	623,311	Apr. 18	2064	473 474	87	432
Howell, George W. (See Scott, Charles C., assignor.)						
Howell, George W. and P. G., Covington, Ky. Sign	619,254	Feb. 7	862	188	86	981
Howell, John C. (See Hollick, Thomas D. and F. W., assignors.)						
Howell, John C., assignor to Porous Accumulator Company, Limited, London, England. Making battery-electrodes	622,689	Apr. 11	930	214	87	196
Howell, John C., assignor to Porous Accumulator Company, Limited, London, England. Machine for making metallic ribbon for battery-electrodes	622,690	Apr. 11	931	214	87	196
Howell, John C., assignor to Porous Accumulator Company, Limited, London, England. Battery-electrode	628,661	July 11	1366	318	88	284
Howell, Percy G. (See Howell, George W. and P. G.)						
Howell, Philip, Frank, assignor of two-thirds to M. J. Thompson and A. M. Patterson, Buena Vista, Pa. Ice-cream disher or dipper	618,205	Jan. 24	2586	572	86	554
Howell, Philip, assignor of one-half to A. M. Patterson and M. J. Thompson, Frank, Pa. Registering toy bank	637,737	Nov. 21	3254	678	89	1648
Howl, Oliver, Tipton, England. Brick-drier	622,626	Apr. 4	788	183	87	150
Howl, Oliver, Tipton, England. Apparatus for drying bricks, &c	631,214	Aug. 15	2758	623 624	88	1299
Howland, John W., Lincoln, Nebr. Sash-fastener	621,569	Mar. 21	1907	426	86	1895
Howland, John W., Lincoln, Nebr. Wire-fence tool	624,653	May 9	1289	288	87	972
Howland, John W., Lincoln, Nebr. Wire-splicing ring	626,702	June 13	892	203	87	1805
Howland, Thomas G., Kilkenny, Minn. Game-counter	618,099	Jan. 24	2375	530	86	515
Howlcroft, Thomas C., Uttoxeter, England. Dentist's or jeweler's drawer and tray	628,467	July 11	971	224	88	207
Howse, Alfred O. (See Garlick, Murray, and Howse.)						
Howze, George H., Moss Point, Miss. Log-boom	633,515	Sept. 19	2465	580	88	2217
Hoxie, George L., Adrian, Mich. Feed mechanism for wire-fabric machines	620,589	Mar. 7	68	13, 14	86	1516
Hoxie, George L., assignor of fourth-fifths to D. M. Baker, D. Metcalf, W. H. Shearson, and I. Waterman, Adrian, Mich. Device for tying intersecting wires	621,416	Mar. 21	1614	359	86	1840
Hoxie, Gilbert H., *et al.* (See Evans, Roland, assignor.)						
Hoxie, William D., assignor to Babcock & Wilcox Company, New York, N. Y. Sectional steam-generator	638,716	Dec. 12	1008	226	89	2082
Hoxie, William D., assignor to Babcock & Wilcox Company, New York, N. Y. Forced-draft system for steam-generators	638,717	Dec. 12	1009	226	89	2083
Hoyer, Rudolph C., Vicksburg, Miss. Automatic match-case and cigar-tip cutter	635,484	Oct. 24	2835	647	89	608
Hoyle, James R., and H. Colburn, Keighley, England. Bearing for combing-machine rollers	617,465	Jan. 10	1158	264	86	244
Hoyne, James F. (See Teevan and Hoyne.)						
Hoyne, James F., New York, N. Y. Manufacturing fiberless thread	625,033	May 16	1976	------	87	1124
Hoyt, Cyrus, Stamford, Conn. Meat-rack	633,843	Sept. 26	3077	715	88	2353
Hoyt, Emily C. (See Hoyt, James T., assignor.)						
Hoyt, Gabriel P. B., New York, N. Y. Rotary engine	628,327	July 4	722	167	88	138
Hoyt, Gabriel P. B., New York, N. Y. Engine	630,229	Aug. 1	917	201	88	903
Hoyt, Iven J., Watseka, Ill. Car-coupling	633,086	Sept. 12	1624	378	88	2043
Hoyt, James T., New York, N. Y. Paper-cabinet	629,565	July 25	3000	701	88	639
Hoyt, James T., New York, N. Y. Cabinet or paper-case	629,566	July 25	3002	701	88	640
Hoyt, James T., New York, N. Y. Package of sanitary or toilet paper	634,459	Oct. 10	923	221	89	202
Hoyt, James T., assignor to E. C. Hoyt, New York, N. Y. Paper-cabinet	639,238	Dec. 19	1932	446	89	2277
Hoyt, Lewis S., Boston, Mass. Preserve-jar and stopper	634,240	Oct. 3	496	128	89	101
Hoyt, Oliver A., Rock Creek, Ohio. Wheel-washing apparatus	617,397	Jan. 10	1042	236	86	222
Hoyt, Will F., Dowagiac, Mich. Disk drill	626,024	May 30	3834	869	87	1522
Hoyt, Will F., Dowagiac, Mich. Grain-drill	629,859	Aug. 1	193	44	88	758
Hoyt, Will F., Dowagiac, Mich. Combined grain and grass seeder	634,460	Oct. 10	924	221	89	202
Hoyt, Will F., assignor to Dowagiac Manufacturing Company, Dowagiac, Mich. Disk drill	630,353	Aug. 8	1178	259	88	971
Hoyt, William E. (See Minturn, Joseph A., assignor.)						
Hromas, Mary C., Weston, Nebr. Spool-holder	634,000	Oct. 3	38	11	89	11
Hub Collar Button Company. (See Loveland, Herbert E., assignor.)						
Hubbard, Arthur G., *et al.* (See Blue, Charles E., assignor.)						
Hubbard, David V. T., Marietta, Ga. Plow attachment	634,086	Oct. 3	181	45	89	40
Hubbard, Elmer S. (See Clark, George M., assignor.)						
Hubbard, George M., assignor to W. & E. T. Fitch Company, New Haven, Conn. Fastening device for blankets, &c	621,676	Mar. 21	2109	470	86	1936
Hubbard, George M., assignor to W. & E. T. Fitch Company, New Haven, Conn. Snap-hook	629,689	July 25	3227	751	88	683

Alphabetical list of patentees—Continued.

Name, residence, and invention.	No.	Date.	Monthly volume. Spec.	Monthly volume. Dr'g.	Official Gazette. Vol.	Official Gazette. Page.
Hubbard, George M., assignor to W. & E. T. Fitch Company, New Haven, Conn. Belt-buckle	639,048	Dec. 12	1575	360	89	2193
Hubbard, Herman E. (See Hale, Lovett B., assignor.)						
Hubbard, Hilton, Maryville, Mo. Washing-machine	619,178	Feb. 7	728	157	86	954
Hubbard, John, London, England. Winding-machine	626,998	June 13	1474	323	87	1919
Hubbard, Moses G., Jr. (See McGuire and Hubbard.)						
Hubbard, Moses G., Jr., assignor to McGuire Manufacturing Company, Chicago, Ill. Adjustable traction-motor truck	620,136	Feb. 28	2466	559, 560	86	1346
Hubbard, Richard W., Ashtabula, Ohio. Snap-hook	623,155	Apr. 18	1787	410	87	376
Hubbard, William H., trustee. (See Thompson, Evert M., assignor.)						
Hubbard, William H., of Jas. N., Cambridge, Md. Domestic heater	627,753	June 27	2874	628	87	2233
Hubbard, William W., Jr., Philadelphia, Pa. Machine for making bolts	626,234	June 6	32	8, 9	87	1621
Hubbell, Algernon S., Norwich, Conn. Folding umbrella	627,695	June 27	2766	606	87	2209
Hubbell, Burr, Kelly's Corners, N. Y. Bicycle-support	623,785	Apr. 25	2927	669	87	619
Hubbell, Edwin, South Omaha, Nebr., assignor of one-half to A. Johnson, Jr., Watson, Mo. Steam-generator for thawing frozen ground	622,364	Apr. 4	285	66	87	55
Hubbell, Harvey, Bridgeport, Conn. Machine for threading screws	622,475	Apr. 4	509	121, 122	87	96
Hubbell, Harvey, Bridgeport, Conn. Machine for assembling screws and parts	622,476	Apr. 4	515	122, 123	87	97
Hubbell, James D., Commerce, Mich. Draft connection	638,015	Nov. 28	3793	797	89	1775
Hubbell, Sylvanus N., Danville, Vt. Vise	630,230	Aug. 1	918	201	88	904
Hubbell, Thomas J., Santa Cruz, assignor of one-half to F. Fisher, San Francisco, Cal. Device for penetrating frozen earth or gravel	622,365	Apr. 4	286	66	87	55
Hubbuch, Franz A. Furtwangen, Germany. Glass-grinding machine	631,640	Aug. 22	3549	800	88	1474
Huber, Berthold, assignor to Huber Printing Press Company, Taunton, Mass. Inking apparatus for printing-presses	625,771	May 30	3299	748	87	1431
Huber, Berthold, and W. K. Hodgman, assignors to Huber Printing Press Company, Taunton, Mass. Printing-press	631,745	Aug. 22	3745	840	88	1510
Huber, Carl, Vienna, Austria-Hungary. Process of and apparatus for shaping, embossing, or ornamenting hollow metal bodies	618,353	Jan. 24	2840	631	86	602
Huber, Clarence D. (See Haas and Huber.)						
Huber, Edward, Marion, Ohio. Traction-engine	627,190	June 20	1797	394	87	2001
Huber, Edward, and J. W. Miller, Marion, Ohio. Pneumatic straw-stacker	633,199	Sept. 19	1877	442	88	2103
Huber, Edward, and J. W. Miller, Marion, Ohio. Straw self-feeder and band-cutter	635,099	Oct. 17	2077	488, 489	89	446
Huber, Frank S., St. Louis, Mo. Wire-feeding device	626,999	June 13	1476	323, 324	87	1919
Huber, George W., Philadelphia, Pa. Blotting-paper holder	617,747	Jan. 17	1681	378	86	367
Huber Printing Press Company. (See Crossman, Robert L., assignor.)						
Huber Printing Press Company. (See Huber, Berthold, assignor.)						
Huber Printing Press Company. (See Huber and Hodgman, assignors.)						
Huber, Sigmund V., Youngstown, Ohio. Shear mechanism	624,496	May 9	1014	228, 229	87	918
Huberdeau, Thomas, Larimore, N. D. Means for fastening boiler-tubes	629,690	July 25	3229	751	88	683
Huck, James, Galashiels, Scotland. Cycle or other wheeled vehicle	622,477	Apr. 4	522	123	87	99
Huckleberry, John F. (See Byrns, Will E., assignor.)						
Hucks, William, Jr., London, England. Apparatus for charging bottles with liquids	624,335	May 2	717	159	87	837
Huddle, Earle T., *et al.* (See Huddle, Peter, assignor.)						
Huddle, Elvin K., *et al.* (See Huddle, Peter, assignor.)						
Huddle, Peter, assignor of two-thirds to E. K. and E. T. Huddle, Tiffin, Ohio. Device for cutting away sward from sidewalks	625,977	May 30	3696	840	87	1498
Hudelson, William A., Jefferson, Oreg. Brush for bicycle-chains	635,778	Oct. 31	3379	780	89	727
Hudgens, Joseph J. (See Hudgens, William O. and J. J.)						
Hudgens, William O. and J. J., Waldo, Ark. Refrigerator	623,905	Apr. 25	3159	728	87	663
Hudgin, Louis, Lochiel, Ariz. Ter. Copy-holder	630,231	Aug. 1	920	201	88	904
Hudson, Albert E., assignor of one-half to L. L. Oakes, Fitchburg, Mass. Swinging flower-shelf	619,752	Feb. 21	1758	402, 403	86	1195
Hudson, Alexander S., *et al.* (See Carraway, Esther P. H., assignor.)						
Hudson, Benjamin F., Rockport, Tex. Sand-screen for water-wells	628,468	July 11	972	225	88	208
Hudson, James A. (See Shedlock and Hudson.)						
Hudson, Walter, Barfield, Ala. Tether	636,407	Nov. 7	301	68	89	981
Huebel, Otto H., assignor to L. Frank, New York, N. Y. Adjustable connection	635,100	Oct. 17	2079	489	89	447
Huebner, Harry, Philadelphia, Pa. Clothes-line reel	622,855	Apr. 11	1210	281	87	249
Huebner, Julius, Milwaukee, Wis. Life-boat	629,365	July 25	2628	610	88	566
Huenefeld, Ernst H. (See Carter, John R., assignor.)						
Huenefeld, Ernst H. (See James. William H., assignor.)						
Huenefeld, Ernst H., Cincinnati, Ohio. Wood-burning stove	633,720	Sept. 26	2874	667, 668	88	2311
Huenefeld, Ernst H., Cincinnati, Ohio. Stove	634,668	Oct. 10	1286	303	89	274
Huenefeld, Ernst H., Cincinnati, Ohio. Stove	638,844	Dec. 12	1223	275, 276	89	2124
Huenefeld, Ernst H., Cincinnati, Ohio. Heating-stove	639,898	Dec. 26	3156	726	89	2539
Huestis, Frederick W., Boston, Mass. Rubber-tired wheel	624,940	May 16	1829	410	87	1095
Huestis, Frederick W., Boston, Mass., assignor to Universal Safety Tread Company, Jersey City, N J. Tread for stairs, &c	638,666	Dec. 5	891	196	89	2039
Hufeland, Phillip, New York, N. Y. Valve-operating device	630,354	Aug. 8	1180	259	88	971
Hufeland, Phillip, New York, N. Y. Card-case	633,006	Sept. 12	1492	347	88	2016
Huff, George, Tropico, Cal. Street-railway-curve sweeper and oiler	617,420	Jan. 10	1086	248	86	231
Huff, George R., St. Croix Falls, Wis. Snow-plow	638,414	Dec. 5	442	91	89	1949
Huff, George S., Portland, Ind. Smoke-consumer	630,703	Aug. 8	1848	417	88	1095
Huff, George S., assignor to S. H. Adams, Portland, Ind., and E. Baker, Kalamazoo, Mich. Hand-oiler	624,035	May 2	154	34	87	732
Huff, Henry H., assignor of one-half to A. D. Curran, Boston, and S. P. Burton, Jr., Reading, Mass. Locomotive-engine	631,990	Aug. 29	4182	940, 941	88	1605
Huff, Hugh W., Newport, and J. M. Lotspeich, Bybee, Tenn. Ash-pan	639,392	Dec. 19	2232	517	89	2339
Huffman, William L., Woodville, assignor of oue-half to S. R. Smith, Culpeper, Va. Wheel	624,036	May 2	156	34	87	732
Hufford, M. M. (See Richards and Snyder, assignors.)						
Huffstickler, Noah G., assignor of three-fourths to E. M. Asbury and R. H. Stowe, Mount Holly, N. C. Roping-guide for spinning frames, &c	635,686	Oct. 24	3190	735	89	677
Hufhand, Daniel, Manorville, Pa. Brushing apparatus for pottery-ware	637,793	Nov. 28	3356	703, 704	89	1688
Hufnagel, Daniel, Milo, Ill. Stock-waterer	623,545	Apr. 25	2487	571	87	535
Hufnagel, John. (See Dietrich, Hufnagel, and Wolf.)						
Huggins, Merion J., and H. D. Pollak, New York, N. Y.; said Huggins assignor to said Pollak. Game apparatus	622,152	Mar. 28	3000	678	86	2125

Alphabetical list of patentees—Continued.

Name, residence, and invention.	No.	Date.	Monthly volume.		Official Gazette.	
			Spec.	Dr'g.	Vol.	Page.
Huggins, Ulysses S., assignor of one-half to W. E. Ratcliffe, Wellsburg, W. Va. Pillow-sham holder	623,719	Apr. 25	2783	637	87	590
Huggins, William, Dundee, Scotland. Steam-engine	627,854	June 27	3049	666 667	87	2266
Hughes, Annie E. (See Carden, Helen J., assignor.)						
Hughes, Arla J., and D. C. Hindman, Rushville, Ill. Check-row corn-planter	632,717	Sept. 12	977	226 227	88	1914
Hughes, Charles D., New York, N. Y. Type-setting apparatus	626,758	June 13	984	223	87	1823
Hughes, Daniel, Philadelphia, Pa. Combined step-ladder and jack	624,037	May 2	157	35	87	733
Hughes, Denison S., and A. J. Munger, Antwerp, Ohio. Broom-holder	637,208	Nov. 14	1906	409	89	1326
Hughes, Edward, New Bedford, Mass. Blind-fastener	632,571	Sept. 5	666	154	88	1838
Hughes, Enoch, assignor of one-half to F. H. Smith, Akron, Ohio. Tool-holder	617,573	Jan. 10	1359	307	86	284
Hughes, George B., Washington, D. C. Toy	621,677	Mar. 21	2110	470	86	1936
Hughes, Henry E., Pawtucket, R. I. Spindle	627,062	June 13	1575	344	87	1937
Hughes, James, Jersey City, N. J. Pie raising, trimming, and lidding machine	622,478	Apr. 4	523	123	87	99
Hughes, James F., Lone Grove, Tex. Horse blinding device	622,691	Apr. 11	933	215	87	197
Hughes, John, Somerville, assignor to Crosby Steam Gage and Valve Company, Boston, Mass. Safety-valve and muffler	631,370	Aug. 22	3050	691	88	1374
Hughes, Joseph. (See Hanington, Charles F., assignor.)						
Hughes, Joseph, New York, N. Y. Combined door hinge and check	638,718	Dec. 12	1010	227	89	2083
Hughes, Joseph, and B. Ibbotson, Toronto, Canada. Frame for bicycles, &c	630,232	Aug. 1	921	202	88	904
Hughes, Oscar E. (See Harris, William A. and B. S. H., assignors.)						
Hughes, Ottis, Indianapolis, Ind. Automatic governor	638,016	Nov. 28	3794	797 798	89	1776
Hughes, Robert. (See Davies and Hughes.)						
Hughes, Talbert B., Hawes Cross-Roads, Tenn. Lightning-arrester	637,794	Nov. 28	3358	704	89	1688
Hughes, Terrence H., New York, N. Y. Apparatus for printing yarn	618,354	Jan. 24	2843	631 632	86	602
Hughes, Thomas J. (See Pinson, Benjamin F., assignor.)						
Hughes, Thomas W., Harrisonburg, Va., assignor of one-half to C. Heath, Trenton, N. J. Gravity plumb-level	631,793	Aug. 29	3851	858	88	1541
Hughes, William J., Osyka, Miss. Street-railway switch	620,928	Mar. 14	723	160	86	1655
Hughes, William P., Chanute, Kans. Car-coupling hook	619,827	Feb. 21	1902	434	86	1224
Hughson, George F., Chicago, Ill. Reducing-valve	634,001	Oct. 3	40	12	89	11
Hulberg, Carl O., Lakota, N. D. Animal-trap	618,676	Jan. 31	3455	771	86	735
Hulett, Eddie A. (See Lamphere, Franklin, assignor.)						
Hulett, George H., Cleveland, assignor of one-half to Webster, Camp & Lane Machine Company, Akron, Ohio. Loading or unloading apparatus	631,717	Aug. 22	3689	827 828	88	1500
Huling, Edward, Cincinnati, Ohio. Antirattling thill-coupling	623,546	Apr. 25	2489	572	87	535
Hull, Fletcher C., assignor to Hull Umbrella Company, Norwalk, Ohio. Handle for umbrellas, &c	639,731	Dec. 26	2851	657	89	2480
Hull, Foster J. (See Gardam and Hull.)						
Hull, Foster J., and W. Burchett, assignors to J. Gardam, New York, N. Y. Record-printing wheel for time-recorders	629,366	July 25	2628	611	88	566
Hull, Herbert H., Cleveland, Ohio. Mechanism for wiring can-caps	634,112	Oct. 3	238	60, 61	89	50
Hull, Herbert H., Cleveland, Ohio. Packing vessel	636,339	Nov. 7	183	40	89	958
Hull, John M., Atchison, Kans. Acetylene-gas generator	633,844	Sept. 26	3078	715	88	2353
Hull, John S., Baltimore, Md. Apparatus for burning hydrocarbon-oil	635,071	Oct. 17	2002	473 474	89	432
Hull Umbrella Company. (See Hull, Fletcher C., assignor.)						
Hull, William C., Traverse City, Mich. Type for type-writing machines	620,137	Feb. 28	2468	560	86	1347
Hull, William S., Jackson, Miss. Fireproof structure	632,528	Sept. 5	590	135	88	1825
Hulse, Benjamin F. (See Woodill and Hulse.)						
Hulse & Company. (See Hulse, William W., assignor.)						
Hulse, James V., New York, N. Y. Alining and leveling device and method	631,114	Aug. 15	2592	585 586	88	1265
Hulse, William H., Plattsburg, N. Y. Type-writing machine	632,718	Sept. 12	979	227	88	1915
Hulse, William W., deceased; C. M. Catlin, Washington, D. C., administrator, assignor to Hulse & Company, Limited, Salford, England. Lathe	621,322	Mar. 21	1469	325 326	86	1812
Hulslander, William, Davenport, Iowa. Vehicle-whee	624,038	May 2	158	35	87	733
Hume, Robert D., Gold Beach, Oreg. Can-heading machine	620,653	Mar. 7	207	43	86	1542
Hume, Robert D., Gold Beach, Oreg. Soldering-machine	640,136	Dec. 26	3588	825 826	89	2629
Hume, Wasbington, London, England. Animal-shears	636,146	Oct. 31	4113	941	89	871
Hume, Washington, London, England. Railway signaling apparatus	637,337	Nov. 21	2165	466	89	1393
Humes, James, New York, N. Y. Method of and apparatus for making ice	625,447	May 23	2723	619 620	87	1290
Humiston, Dawson M., Peru, Ill. Combination-tool	626,381	June 6	324	74	87	1676
Hummel, Annas, Huntingdon, Pa. Artificial tree	632,121	Aug. 29	4436	997	88	1657
Hummel, Georg, Munich, Germany. Motor-meter for three-phase currents	633,695	Sept. 26	2828	657	88	2302
Hummel, Georg, Munich, assignor to Allgemeine Electricitäts Gesellschaft, Berlin, Germany. Ampere-hour electric meter	623,547	Apr. 25	2491	572 573	87	536
Hummell, Edward G., Lancaster, N. Y. Ironing-board	619,573	Feb. 14	1410	325	86	1104
Hummer, Frank D. (See Wenrich, Daniel K., assignor.)						
Humpage, Thomas, Bristol, England. Gearing	628,469	July 11	973	225	88	208
Humphrey, Alexander F., Allegheny, Pa. Switch for trolley-wires	632,052	Aug. 29	4299	966	88	1629
Humphrey, Arthur L., Colorado City, Colo. Pneumatic ram	638,928	Dec. 12	1371	313	89	2154
Humphrey, Frank A., Worcester, Mass. Sharpening-tool	618,880	Feb. 7	114	24	86	827
Humphrey, Frank A., assignor, by mesne assignments, to K. A. Humphrey, Worcester, Mass. Guide for saw-machine tables	623,156	Apr. 18	1789	410 411	87	377
Humphrey, Frank A., assignor, by mesne assignments, to K. A. Humphrey, Worcester, Mass. Circular-saw machine	623,786	Apr. 25	2929	669 670 671	87	619
Humphrey, Harry J., assignor of one-half to C. P. Nicholas, S. Harting, and G. W. Williams, Philadelphia, Pa. Trolley	628,662	July 11	1367	319	88	284
Humphrey, Henry M., Plainfield, N. J. Percolator-package	618,677	Jan. 31	3456	771	86	735
Humphrey, Henry M., Plainfield, N. J. Device for sealing packages	633,007	Sept. 12	1494	347	88	2016
Humphrey, Henry M., Plainfield, N. J. Package for percolating coffee	634,349	Oct. 3	730	174	89	146
Humphrey, John D., assignor of one-half to F. H. Afford, J. E. Curran, New Britain, Conn., and J. I. Curran, Holyoke, Mass. Motor-vehicle	627,503	June 27	2407	528	87	2138
Humphrey, Kate A. (See Humphrey, Frank A., assignor.)						
Humphrey, Morton M., Siloam Springs, Ark. Auxiliary electric alarm for telephone call-bells	626,382	June 6	325	75	87	1676
Humphrey, Oscar H. (See Barnish, Oliver, Jr., assignor.)						
Humphrey, Patrick S., Louisville, Ky. Tug-fastening for vehicles	630,704	Aug. 8	1849	417	88	1096
Humphrey, Seth K., Boston, Mass. Electric-current transformer	628,807	July 11	1624	375	88	338

Alphabetical list of patentees—Continued.

Name, residence, and invention.	No.	Date.	Monthly volume.		Official Gazette.	
			Spec.	Dr'g.	Vol.	Page.
Humphrey, Seth K., Boston, Mass. Device for securing doors in partially-open positions	628,808	July 11	1626	376	88	338
Humphrey, William C., near Jamestown, N. D. Belt-fastener	622,856	Apr. 11	1211	282	87	249
Humphreys, Alfred N., and E. McGrew, Irwin, Pa. Mechanism for operating mine-doors	618,678	Jan. 31	3458	771 772	86	735
Humphreys, Franklin E., Mason City, Iowa. Smoke-consuming flue	636,044	Oct. 31	3891	893	89	827
Humphreys, Walter C., Salisbury, Md. Bicycle support and locking device	628,096	July 4	262	62	88	52
Hunaeus, Paul, Linden, Germany. Gear-case for velocipedes	617,575	Jan. 10	1366	309 310	86	284
Hundertmark, Charles L. H. de, assignor, by mesne assignments, to E. Thurneyssen, Paris, France. Fireproof material	623,247	Apr. 18	1942	------	87	407
Hundhausen, Rudolf L. L., Wilmersdorf, Germany, assignor to Siemens & Halske Electric Company of America, Chicago, Ill. Junction-box for electrical conductors	635,485	Oct. 24	2836	647 648	89	608
Hundley, James, Pomeroy, Ohio. Charging device for heating-furnaces	634,499	Oct. 10	989	237	89	215
Hungerbuehler, John C., deceased, Philadelphia, Pa.; A. Hungerbühler, executrix. Strainer for waste-pipes	628,146	July 4	353	84	88	72
Hungerbühler, Amalie, executrix. (See Hungerbuehler, John C.)						
Hungerbühler, Emil, London, England. Electric-arc lamp	621,417	Mar. 21	1616	359	86	1840
Hunnewell, John. (See McLaughlin, Milton P., assignor.)						
Hunsaker, Oscar W., St. Louis, Mo. Cash-register	638,929	Dec. 12	1375	313 314	89	2154
Hunsinger, John E., Detroit, Mich. Butter-forming machine	622,048	Mar. 28	2811	634	86	2086
Hunt, Charles, Philadelphia, Pa. Lemon-squeezer	625,507	May 23	2821	643	87	1309
Hunt, Charles A. (See Swartzwelder, Daniel H., assignor.)						
Hunt, Charles W. (See Levitt and Hunt.)						
Hunt, Charles W., New York, N. Y. Hoisting apparatus	622,227	Apr. 4	51	12	87	13
Hunt, Charles W., New York, N. Y. Hoisting apparatus	624,810	May 9	1581	359	87	1031
Hunt, Charles W., and C. C. King, assignors to C. W. Hunt Company, New York, N. Y. Hoisting apparatus	622,366	Apr. 4	289	67	87	55
Hunt, Charles W., and C. C. King, assignors to C. W. Hunt Company, New York, N. Y. Conveyer for coal, ore, &c	631,718	Aug. 22	3694	828 829	88	1501
Hunt, Charles W. and W. F., and C. C. King, assignors to C. W. Hunt Company, New York, N. Y. Hoisting apparatus	624,811	May 9	1583	360	87	1032
Hunt, Clarence T., New Haven, Conn. Coin-controlled picture-exhibitor	626,425	June 6	385	90	87	1689
Hunt, Clifton S., Trenton, Ind. Wire-stretching tool	630,056	Aug. 1	624	136	88	847
Hunt, Daniel, Van Buren, Ark. Movable combination counter and shelving	617,021	Jan. 3	302	66, 67	86	60
Hunt, David F., Antrim, N. H. Apple-parer	633,243	Sept. 19	1974	463	88	2123
Hunt, E. J., *et al.* (See Hood, Hiram Q., assignor.)						
Hunt, Franklin B., Washington, D. C. Gearing	638,719	Dec. 12	1013	227	89	2083
Hunt, Frederick S., Albany, Ill. Tea-kettle	636,805	Nov. 14	1104	237	89	1172
Hunt, G. J., *et al.* (See Hood, Hiram Q., assignor.)						
Hunt, Helm & Ferris. (See Ferris, Henry L., assignor.)						
Hunt, Henry S., Cato, N. Y. Creaming-can	619,753	Feb. 21	1759	403	86	1196
Hunt, James. (See Dolley, Rehfuss, and Hunt.)						
Hunt, James E., Portland, Oreg. Range	637,260	Nov. 21	2002	429	89	1360
Hunt, Jesse O., Cairo, Ill. Necktie-fastener	636,996	Nov. 14	1486	319	89	1247
Hunt, John P., *et al.* (See Gravely, Willis L., assignor.)						
Hunt, John T., New York, N. Y. Plug-receptacle for electric circuits	629,445	July 25	2776	645	88	597
Hunt, Jonathan A., Westborough, Mass. Bicycle-saddle	619,179	Feb. 7	729	158	86	954
Hunt, William. (See Phillips and Hunt.)						
Hunt, William F. (See Hunt and King.)						
Hunt, William F., *et al.* (See Godfrey, Hosea M., assignor.)						
Hunt, William S., and O. W. Cline, Pilot Mound, Iowa. Tagging and measuring machine	635,779	Oct. 31	3380	780 781	89	728
Hunt, Wilson P., and C. P. A. Friberg, assignors to Deere & Mansur Company, Moline, Ill. Disk harrow	638,514	Dec. 5	621	129	89	1985
Hunt, Wilson P., and C. P. A. Friberg, assignors to Deere & Mansur Company, Moline, Ill. Corn-planter	639,239	Dec. 19	1935	446	89	2278
Hunter, Aldridge T., Norman, Okla. Ter. Cattle-yoke	625,335	May 23	2529	575	87	1253
Hunter, Andrew, San Francisco, and C. Gustafson, Oakland, Cal. Automatic station-indicator for railway-cars	623,215	Apr. 18	1888	433 434	87	396
Hunter, Andrew, San Francisco, and C. Gustafson, Oakland, Cal. Electric actuating mechanism for station-indicators	623,906	Apr. 25	3160	728	87	663
Hunter, Calvin F. (See Garr, Horace S., assignor.)						
Hunter, David E., Cambridge, Mass. Adjustable shelving	619,416	Feb. 14	1146	260	86	1052
Hunter, David E., Cambridge, Mass. Shelving	619,417	Feb. 14	1149	261	86	1053
Hunter, David E., Cambridge, Mass. Adjustable library-shelving	619,418	Feb. 14	1152	261	86	1054
Hunter, David E., Cambridge, Mass. Base for traveling bookcases	623,157	Apr. 18	1793	411	87	377
Hunter, David E., Cambridge, Mass. Lock-rod for cards	628,886	July 11	1755	411	88	362
Hunter, David E., Cambridge, Mass. Lock-rod for cards	638,017	Nov. 28	3797	798	89	1776
Hunter, George W., Clifton Station, Va., assignor to himself, and H. S. Cummings, Washington, D. C. Rotary engine	622,952	Apr. 11	1380	317 318	87	282
Hunter, Guy D., *et al.* (See Sincock, David, assignor.)						
Hunter, James A., and H. Y. Armstrong, Peoria, Ill.; said Armstrong assignor to said Hunter. Mouse-trap	619,754	Feb. 21	1760	403	86	1196
Hunter, Nathaniel W., Hartford, Conn. Shaft-tug	627,581	June 27	2553	562	87	2166
Hunter, Robert L., Minneapolis, Minn., assignor to American Signal and Power Company, of Minnesota. Centrifugal electric switch	633,516	Sept. 19	2466	581	88	2218
Hunter, Rudolph M., Philadelphia, Pa. Burial structure	617,161	Jan. 3	580	136 137	86	113
Hunter, Rudolph M., Philadelphia, Pa. Electric device for propelling and controlling vehicles	625,953	May 30	3647	829	87	1487
Hunter, Rudolph M., Philadelphia, Pa. Electrically-propelled vehicle	629,079	July 18	2116	492 493	88	450
Hunter, Rudolph M., Philadelphia, Pa. System of electric metering and apparatus therefor	631,467	Aug. 22	3224	733	88	1409
Hunter, Rudolph M., Philadelphia, Pa. Doll	634,143	Oct. 3	300	77	89	63
Hunter, Rudolph M., Philadelphia, Pa. Manufacture of electrical fuses	637,120	Nov. 14	1729	372	89	1292
Hunter, Rudolph M., Philadelphia, Pa., assignor to Thomson-Houston Electric Company, of Connecticut. Electric railway	620,654	Mar. 7	210	43	86	1542
Hunter, Rudolph M., Philadelphia, Pa., assignor to General Electric Company, of New York. Electric railway	625,168	May 16	2214	502	87	1167
Hunter, Rudolph M., Philadelphia, Pa., assignor to General Electric Company, of New York. Electric railway	637,119	Nov. 14	1726	371	89	1292
Hunter, Rudolph M., assignor to Electric Car Company of America, Philadelphia, Pa. Electrically-propelled vehicle	638,966	Dec. 12	1436	329	89	2167
Hunter, Victor E., Cleburne, Tex. Governor	627,422	June 20	2258	499	87	2093

Alphabetical list of patentees—Continued.

Name, residence, and invention.	No.	Date.	Monthly volume. Spec.	Monthly volume. Drg.	Official Gazette. Vol.	Official Gazette. Page.
Hunter, Victor E., assignor of one-half to J. D. Oliger, Cleburne, Tex. Automatic stopping mechanism for engines	618,679	Jan. 31	3459	772	86	736
Hunter, William F., and C. W. Storm, Elgin, Ill. Bell	620,138	Feb. 28	2469	560	86	1347
Hunter, William W., Shiocton, Wis. Ditching-machine	622,228	Apr. 4	53	13	87	14
Huntington, George, Santa Ana, Cal. Invalid-bed	633,264	Sept. 19	2015	473	88	2130
Huntley, William W., Silver Creek, N. Y. Flour-packer	619,419	Feb. 14	1154	261	86	1054
Hunton, Robert W. (See Mills and Hunton.)						
Hunton, Robert W., assignor to Pettee Machine Works, Newton, Mass. Flat for carding-engines	622,367	Apr. 4	291	67	87	56
Huntoon, Charles F., assignor to Chicago Railway Equipment Company, Chicago, Ill. Side bearing for railway-cars	638,336	Dec. 5	284	58	89	1921
Huntoon, Charles F., assignor to Chicago Railway Equipment Company, Chicago, Ill. Brake connecting-rod	638,869	Dec. 12	1271	289	89	2133
Huntress, Franklin E. (See Neal, James H., assignor.)						
Huntsberry, Benjamin F., and H. Laveen, Columbus, Ohio. Wheel-tire	622,923	Apr. 11	1334	307	87	272
Huntze, Louis, St. Louis, Mo. Reflector	629,691	July 25	3230	751	88	684
Huntzicker, Frederick. (See Balch, Frederick O., assignor.)						
Hunzinger, Alfred, *et al.*, executors. (See Hunzinger, George.)						
Hunzinger, George, deceased; M. S., G., Jr., A. and H. Hunzinger, New York, N. Y., executors. Chair	624,812	May 9	1585	360	87	1032
Hunzinger, Henrietta, *et al.*, executors. (See Hunzinger, George.)						
Hunzinger, Mary S., *et al.*, executors. (See Hunzinger, George.)						
Hupp, John B., Berne, Ohio. Turfing implement	632,719	Sept. 12	983	227	88	1916
Hupton, Horace E. (See Ridge, Mutton, and Hupton.)						
Hurd, Charlotte E., Unadilla, N. Y. Shirt-waist attachment	633,845	Sept. 26	3081	716	88	2353
Hurd, Delmar G., Lowell, Mass., assignor to Ideal Buckle Manufacturing Company, Portland, Me. Buckle	633,137	Sept. 19	1765	416	88	2080
Hurd, Hobert J., assignor to Union Metallic Cartridge Company, Bridgeport, Conn. Machine for making paper cartridge-shells	635,072	Oct. 17	2004	474, 475, 476, 477	89	432
Hurd, Norman B. (See Voight and Hurd.)						
Hurdel, Nellie F., New York, N. Y. Cushion or hassock	623,548	Apr. 25	2495	573	87	536
Hurdel, Nellie F., New York, N. Y. Hat-valise	639,049	Dec. 12	1576	361	89	2193
Hurdel, Nellie F., New York, N. Y. Hat case or valise	639,050	Dec. 12	1577	361	89	2193
Hurdle, Julian A. (See Anderson, Thaddeus A., assignor.)						
Hurdle, Samuel W., *et al.* (See Andrews, William M., assignor.)						
Hurlburt, Horace, Leavenworth, Kans. Revolving elevator or derrick-crane	634,577	Oct. 10	1135	269, 270	89	243
Hurlburt, Watson M. (See Childress, Benjamin F., assignor.)						
Hurlbut, Carrie L., Washington, D. C. Plaiting apparatus	629,255	July 18	2420	560, 561	88	505
Hurlbut, Frank, Chicago, Ill. Dental spittoon	627,617	June 27	2634	579	87	2184
Hurlbut, Frank, Chicago, Ill. Syringe-nozzle	639,576	Dec. 19	2561	588	89	2404
Hurlbut, Frank, assignor to A. C. Clark, Chicago, Ill. Attachment for dental spittoons	626,066	May 30	3903	886	87	1534
Hurley, Andrew O., Jeannette, Pa. Glass-tank	617,748	Jan. 17	1682	379	86	367
Hurley, Edward N. (See Kimman, Henry J., assignor.)						
Hurley, William T., Kimesville, N. C. Attachment for fiber-lapping machines	629,164	July 18	2269	526	88	478
Hurry, Edward H., Bethlehem, and H. J. Seaman, Catasauqua, Pa. Rotary furnace	628,940	July 18	1866	432	88	400
Hursen, O. G. (See McKelvey, Samuel P., assignor.)						
Hurst, Harris P., Summit, Miss. Wire-wound gun	618,036	Jan. 17	2239	498, 499	86	474
Hurst, Harris P., Summit, Miss. Turret	630,889	Aug. 15	2164	492	88	1183
Hurst, Julius M. (See Haney and Hurst.)						
Hurst, Needham W., and T. O. Linch, Flovilla, Ga.; said Linch assignor to said Hurst. Planetarium	622,857	Apr. 11	1212	282	87	249
Hurst, William B. (See Kohn, Jacob, assignor.)						
Hurt, Samuel, Coin, Iowa. Baling-press	617,531	Jan. 10	1279	290	86	269
Hurt, Watty W. G., Coin, Iowa. Tongue-support	629,721	July 25	3286	766	88	694
Hurvitz, Max, New York, N. Y. Brush	636,408	Nov. 7	302	68	89	982
Huse, Fred C., Carrebassett, Me. Lathe	629,256	July 18	2421	561	88	506
Huse, Warren D., Laconia, N. H. Stocking	626,864	June 13	1219	269	87	1868
Huseby, Albert, Chicago, Ill. Polishing-machine	637,121	Nov. 14	1734	372, 373	89	1293
Hüser, Caspar H. F., Bruckhausen, Germany. Tire for car-wheels	622,692	Apr. 11	934	215	87	197
Huson, Winfield S., assignor to Whitlock Machine Company, Derby, Conn. Rotary paper-cutter for printing-presses	636,997	Nov. 14	1487	320	89	1247
Huss, William C., Cincinnati, Ohio. Sales-counter	625,396	May 23	2627	597	87	1272
Hussey, Charles A., assignor to P. Goepel, trustee, New York, N. Y. Vehicle-wheel	623,372	Apr. 18	2176	499	87	454
Hussey, George B., Providence, R. I. Brush	624,336	May 2	721	160	87	838
Husted, Charles M., Prescott, Ariz. Ter. Dispensing-can for liquids	639,393	Dec. 19	2235	517	89	2339
Husted, Hosea E., and W. S. Jones, Jeannette, Pa. Diaphragm	638,246	Dec. 5	83	19	89	1883
Hustedt, Carl, Jr., Diepholz, Germany. Holder for playing-cards	619,960	Feb. 21	2142	485	86	1270
Huster, Theodor, assignor of one-half to F. W. Helms, Paterson, N. J. Loom-shuttle	627,423	June 20	2260	499	87	2093
Huston, William A. (See Goetz and Huston.)						
Hutchings, Fred C., Virgil, N. Y. Sprayer for fruit or other trees	631,115	Aug. 15	2598	586	88	1266
Hutchings, Harry, *et al.* (See Habermann, George J., assignor.)						
Hutchins, Charles H., Detroit, Mich. Double car-roof	617,289	Jan. 3	812	189	86	160
Hutchins, Charles H., Detroit, Mich. Double car-roof. (Reissue)	11,729	Apr. 4	861	197, 198	87	164
Hutchins, Charles H., Detroit, Mich. Double car-roof	624,654	May 9	1290	288, 289	87	972
Hutchins, George F., assignor, by mesne assignments, to Crompton & Knowles Loom Works, Worcester, Mass. Pattern-arresting mechanism for looms	617,290	Jan. 3	813	190	86	160
Hutchins, George F., assignor to Crompton & Knowles Loom Works, Worcester, Mass. Picking-motion for looms	621,303	Mar. 14	1424	315	86	1790
Hutchins, George F., assignor to Crompton & Knowles Loom Works, Worcester, Mass. Swivel-loom	624,039	May 2	159	35, 36	87	733
Hutchinson, Arthur H., assignor to Frick Company, Waynesborough, Pa. Ice-making apparatus	634,350	Oct. 3	731	174, 175	89	146
Hutchinson, Charles, Arlington, N. J. Cash-receptacle	622,229	Apr. 4	54	13	87	14
Hutchinson, Charles H., Manchester, N. H. Feed-water heater	623,216	Apr. 18	1891	434	87	396
Hutchinson, Charles W., New York, N. Y. Racing trolley-track	638,720	Dec. 12	1014	228	89	2084
Hutchinson, Cyril G., Birmingham, England. Bicycle-bell	618,985	Feb. 7	374	78	86	883
Hutchinson, George H. (See Cook, Louis A., assignor.)						
Hutchinson, George H., Wilkinsburg, Pa. Chute for bins	639,051	Dec. 12	1578	361	89	2194
Hutchinson, Harley C., Cameron, Mo. Pulverizing-machine	620,655	Mar. 7	213	43, 44	86	1543

Alphabetical list of patentees—Continued.

Name, residence, and invention.	No.	Date.	Monthly volume. Spec.	Monthly volume. Dr'g.	Official Gazette. Vol.	Official Gazette. Page.
Hutchinson, James W., Moab, Va. Cable-velocipede	639,240	Dec. 19	1938	446, 447	89	2278
Hutchinson, Robert B. (See Reeves, Oscar L., assignor.)						
Hutchinson, Robert H., New York, N. Y. Extracting oils	637,465	Nov. 21	2389	517	89	1438
Hutchinson, William F., New York, N. Y., assignor to National Branding Iron Company, of Oklahoma Territory. Branding-iron	623,670	Apr. 25	2704	619, 620	87	575
Hutchinson, William H. (See Kimball, Frank C., assignor.)						
Hutchison, Harry E., Mount Vernon, Wash. Display-cabinet	638,393	Dec. 5	395	83	89	1941
Hutchison, Reese, Mobile, Ala. Controlling-switch for electric motors	622,230	Apr. 4	56	13	87	14
Hutchison, Reese, Mobile, Ala. Controlling-switch for electric motors	622,369	Apr. 4	295	68, 69	87	56
Hutchison, Reese, assignor, by mesne assignments, of one-half to J. H. Wilson, Mobile, Ala. Electrical audiphone	622,368	Apr. 4	292	67, 68	87	56
Hutchison, Reese, assignor of one-half to J. H. Wilson, Mobile, Ala. Audiphone	631,505	Aug. 22	3305	751	88	1425
Hutchison, Richard, Boston, Mass., assignor of one-half to S. T. Bleyer, Chicago, Ill. Steam-separator	619,308	Feb. 14	969	219	86	1019
Hutin, Maurice, and M. Leblanc, Paris, France. Superheated water-motor	639,394	Dec. 19	2236	517	89	2340
Hutin, Maurice, and M. Leblanc, assignors to Société Anonyme pour la Transmission de la Force par l'Électricité, Paris, France. Dynamo-electric machine	628,245	July 4	531	128, 129	88	106
Hutin, Maurice, and M. Leblanc, assignors to Société Anonyme pour la Transmission de la Force par l'Électricité, Paris, France. Telephony	628,246	July 4	535	129, 130	88	106
Hutin, Maurice, and M. Leblanc, assignors to Société Anonyme pour la Transmission de la Force par l'Électricité, Paris, France. Multiple telephony and telegraphy	628,247	July 4	542	130, 131	88	107
Hutin, Maurice, and M. Leblanc, assignors to Société Anonyme pour la Transmission de la Force par l'Électricité, Paris, France. Regulating alternating-current dynamo-electric machines	630,233	Aug. 1	923	202, 203	88	905
Hutson, John T., Columbia, S. C. Attachment for ore-roasting furnaces	626,281	June 6	115	30	87	1636
Hüttemann, Gottfried. (See Spiecker, Gustav, assignor.)						
Huttinger, Ambrose, Cleveland, Ohio. Hinge for couches, beds, or adjustable chairs	619,180	Feb. 7	730	158	86	954
Huttinger, Ambrose, Cleveland, Ohio. Convertible seat	627,504	June 27	2408	529	87	2139
Hutton, William H. (See Schatz, Henry G., assignor.)						
Hutton, William H., Commerce, Mo. Bottle	626,235	June 6	37	9	87	1622
Huxford, Walter H., Pearson, Ga. Thread-case	629,367	July 25	2632	611, 612	88	567
Huxley, Charles E., Aurora, assignor of two-thirds to F. Wahl, Sr., and G. E. Ricker, Quincy, Ill. Valve	625,954	May 30	3651	829	87	1489
Hyatt, Clark C., *et al.* (See Menzer, Frederick, assignor.)						
Hyatt, Elmer E. (See Speer and Hyatt.)						
Hyatt, George W., New York, N. Y. Game-board	623,907	Apr. 25	3163	729	87	664
Hyatt, Herbert O., New York, N. Y. Box for notions	626,067	May 30	3905	887	87	1535
Hyatt, John W., Newark, N. J. Apparatus for washing filter-beds	625,508	May 23	2823	643	87	1310
Hyatt, John W., Newark, N. J. Means for washing granular filter-beds	625,556	May 23	2908	661	87	1327
Hyatt, John W., Newark, N. J. Press for extracting juice from sugar-cane	634,461	Oct. 10	925	221, 222	89	202
Hyatt, John W., Newark, N. J. Buoyant metallic agent for purifying water	634,462	Oct. 10	930	222	89	203
Hyatt, John W., Newark, N. J. Lamp-wick and method of manufacture	638,247	Dec. 5	84	19	89	1883
Hyatt, John W., Newark, N. J., assignor to New York Filter Manufacturing Company, New York, N. Y. Strainer and filter	617,162	Jan. 3	585	137, 138	86	115
Hyatt, John W., Newark, N. J., assignor to New York Filter Manufacturing Company, New York, N. Y. Strainer for filters	618,881	Feb. 7	116	24, 25	86	827
Hyatt, John W., Newark, N. J., assignor to New York Filter Manufacturing Company, New York, N. Y. Strainer for filters	619,755	Feb. 21	1761	403, 404	86	1196
Hyatt Roller Bearing Company. (See Tellefsen, Theodore J., assignor.)						
Hyatt, William P. (See Rose and Hyatt.)						
Hyde, David B. (See Normand and Hyde.)						
Hyde, David B., assignor to Safety Emery Wheel Company, Springfield, Ohio. Self-oiling journal-box	622,231	Apr. 4	58	13	87	15
Hyde, George W., St. Paul, Nebr. Combined whip-socket and rein-holder	618,680	Jan. 31	3461	772	86	736
Hyde, Harold, Ashton-under-Lyne, assignor to J. Pettigrew, London, England. Spring-hinge	618,794	Jan. 31	3655	818	86	774
Hyde, James C., assignor to West Haven Buckle Company, West Haven, Conn. Wire buckle	635,167	Oct. 17	2205	515	89	470
Hyde, Jerome W. (See Howe, Solon G., assignor.)						
Hyde, Jerome W., *et al.* (See Dearborn, Charles A., assignor.)						
Hyde, Theophilus R., Jr., assignor to Scovill Manufacturing Company, Waterbury, Conn. Snap-button	623,720	Apr. 25	2785	637	87	590
Hydraulic Ejector Dredging Company. (See Muir, William, assignor.) (Reissue.)						
Hydraulic Valve and Regulator Company. (See Kuhlewind, Cornelius, assignor.)						
Hydraulic Valve and Regulator Company. (See Kuhlewind and Eisengart, assignors.)						
Hygienic Appliance Company. (See Osbourne, David K., assignor.)						
Hylard, John, assignor of one-half to A. Newell, St. Kilda, Victoria. Magazine bolt-gun	623,475	Apr. 18	2351	540, 541	87	491
Hyman, Joseph C., Milwaukee, Wis. Seat-post fastening	635,548	Oct. 24	2945	672	89	629
Hynds, David H., Shiloh, assignor of two-thirds to R. F. Magee, Heber, and R. A. Jackson, Quitman, Ark. Automatic alarm for boilers	635,016	Oct. 17	1897	451	89	410
Hynes, Patrick J., Springfield, Mass. Ash-sifting chute	627,735	June 27	2836	622	87	2223
Hysore, Alphenas V., assignor of two-thirds to S. P. Mayo and W. J. Whitehurst, Richmond, Va. Machine for treating tobacco	620,139	Feb. 28	2470	561	86	1347
Hysore, Alphenas V., assignor of two-thirds to S. P. Mayo and W. J. Whitehurst, Richmond, Va. Tobacco-press	628,663	July 11	1368	319	88	284
Hysore, Alphenas V., assignor of two-thirds to W. J. Whitehurst and S. P. Mayo, Richmond, Va. Apparatus for treating tobacco	629,368	July 25	2636	612	88	568
Hysore, Alphenas V., assignor of two-thirds to S. P. Mayo and W. J. Whitehurst, Richmond, Va. Apparatus for treating tobacco	630,541	Aug. 8	1573	351	88	1042
Hyter, Charles E. (See Hyter, John A., assignor.)						
Hyter, John A., Fostoria, assignor of one-half to C. E. Hyter, Bradner, Ohio. Steam-engine	639,854	Dec. 26	3083	709	89	2525
I. B. Kleinert Rubber Company. (See Kleinert, Isaac B., assignor.)						
I. B. Kleinert Rubber Company. (See Shedlock and Hudson, assignors.)						
I. B. Kleinert Rubber Company. (See Squires, Arthur C., assignor.)						
I X L Tamale Company. (See Bunzl, Julius, assignor.)						
Ibbotson, Benjamin. (See Hughes and Ibbotson.)						
Ichthyol Gesellschaft, Cordes, Hermanni & Co. (See Helmers, Ludwig O., assignor.)						
Ide, Addie F., *et al.*, executors. (See Ide, Albert L.) (Reissue.)						
Ide, Albert L., deceased, A. F., R. W., and F. P. Ide, Springfield, Ill., executors. Lubricating device for steam-engines. (Reissue)	11,730	Apr. 4	864	198	87	164
Ide, Francis P., *et al.*, executors. (See Ide, Albert L.) (Reissue.)						
Ide, Harry, L., assignor to A. L. Ide & Sons, Springfield, Ill. Valve for engines	628,179	July 4	418	98	88	85

Alphabetical list of patentees—Continued.

Name, residence, and invention.	No.	Date.	Monthly volume. Spec.	Monthly volume. Dr'g.	Official Gazette. Vol.	Official Gazette. Page.
Ide, Harry L., and H. Fernstrom, assignors to A. L. Ide & Sons, Springfield, Ill. Piston-valve	618,416	Jan. 31	2996	664	86	647
Ide, Roy W., *et al.*, executors. (See Ide, Albert L.) (Reissue.)						
Ide & Sons, A. L. (See Ide, Harry L., assignor.)						
Ide & Sons, A. L. (See Ide and Fernstrom, assignors.)						
Ideal Buckle Manufacturing Company. (See Hurd, Delmar G., assignor.)						
Ideal Fuel Feeder Company. (See Day, Albert A., assignor.)						
Ideal Fuel Feeder Company. (See Robinson, Charles A., assignor.)						
Ideal Manufacturing Co. (See Deal, Josiah J., assignor.)						
Ideal Refrigerating and Manufacturing Company. (See Sharpneck, Eliel L., assignor.)						
Ideal Stamp Mill Company. (See Pratt and La Grave, assignors.)						
Idell, George S. (See Davis, Idell, and Davis.)						
Iden, Charles W., New York, N. Y. Tailor's iron	630,980	Aug. 15	2347	535	88	1218
Iden, Charles W., assignor to Electro Lamp Company, New York, N. Y. Carbid-container for acetylene-gas generators	637,934	Nov. 28	3631	761	89	1744
Idinger, Friedrich, Berlin, Germany. Device for facilitating playing citherns	638,248	Dec. 5	86	20	89	1883
Ihde, Heinrich L. C. F., Hamburg, Germany. Folding chair	635,486	Oct. 24	2839	648	89	609
Ihle, John, Chippewa Falls, Wis. Cutter-head for planing-machines	631,542	Aug. 22	3373	766	88	1439
Ihlenfeldt, August, Springfield, Ill. Elevator	639,241	Dec. 19	1939	447	89	2278
Ihn, Alexander, Berlin, assignor to L. Waitzfelder, Hamburg, Germany. Copying device for documents, drawings, &c	625,842	May 30	3439	780	87	1448
Ikeler, David W., New York, N. Y. Fastening device	622,769	Apr. 11	1056	244	87	220
Iler, Alonzo, Greenwood, S. C. Automatic fire-extinguisher	621,495	Mar. 21	1772	395	86	1869
Iliffe, William C., Allesley, England. Changeable-speed gearing	620,325	Feb. 28	2793	639	86	1408
Ill, Henry. (See Neuberth, George E., assignor.)						
Ill, Henry. (See Rehmann, Gustave, assignor.)						
Illingworth, Harry I. (See Dahl and Illingworth.)						
Illingworth, John, Newark, N. J. Metal-drawing machine	621,678	Mar. 21	2111	470, 471	86	1937
Illinois Pure Aluminum Company. (See Walker, George S., assignor.)						
Imhoff, Paul, assignor to United Alkali Company, Limited, Liverpool, England. Making oxyhalogen salts	627,000	June 13	1478	------	87	1919
Imhoff, Paul, assignor to United Alkali Company, Limited, Liverpool, England. Manufacture of oxyhalogen salts	627,063	June 13	1576	------	87	1937
Immisch, Otto C., London, England. Means for regulating speed of electric motors	624,813	May 9	1587	360, 361	87	1032
Imperial Company. (See Lee, Frank A., assignor.)						
Imperial S. C. Acetylene Gas Company. (See Evans, Evan, assignor.)						
Implement Manufacturing Company. (See Jarmin, James B., assignor.)						
Improved Electric Glow Lamp Company. (See Fanta, Ferdinand, assignor.)						
Improved Match Company. (See Perry, Lawrence R., assignor.)						
Imschenetzky, Alexander, St. Petersburg, Russia. Fireproof and insulating material	629,567	July 25	3003	------	88	640
Imschenetzky, Alexander, St. Petersburg, Russia. Refractory material	631,719	Aug. 22	3697	------	88	1502
Incandescent Mantle Machine Company. (See Bültzingslöwen, Bruno von, assignor.)						
Independent Manufacturing Company. (See Scotford, Louis K., assignor.)						
Indiana Manufacturing Company. (See Chesterson, William, assignor.)						
Indiana Manufacturing Company. (See Kramer, George W., assignor.)						
Indiana Manufacturing Company. (See Newby, William H., assignor.)						
Indiana Manufacturing Company. (See Sharpe, Joseph K., Jr., assignor.)						
Indiana Manufacturing Company. (See Walsh, James A., assignor.)						
Ingalsbe, Judson W., Onaga, assignor of one-half to C. Green, Wheaton, Kans. Tightening device for drums	635,856	Oct. 31	3531	811	89	756
Ingels, Thomas J., Atchison, Kans. Current water-wheel	638,123	Nov. 28	4011	844, 845	89	1817
Ingersoll, Carlton S. (See Wake, Charles E., assignor.)						
Ingersoll, Chandler G., New York, N. Y. Folding box	627,334	June 20	2067	456	87	2056
Ingersoll, Charles H., Jersey City, N. J. Holder for timepieces	628,714	July 11	1451	337	88	302
Ingersoll, Charles H., Chicago, Ill. Nasal douch	633,846	Sept. 26	3082	716	88	2353
Ingersoll, Edwin C., Philadelphia, Pa. Floor-clamp	618,573	Jan. 31	3271	726	86	698
Ingersoll, Marcia M. (See Ingersoll, Richmond H., assignor.)						
Ingersoll, Richard V., *et al.* (See Dela Mar, Joseph, assignor.)						
Ingersoll, Richmond H. (See Sherman, Lewis P., assignor.)						
Ingersoll, Richmond H., assignor to M. M. Ingersoll, Biddeford, Me. Machine for drawing in warp-threads	628,627	July 11	1276	296, 297, 298, 299	88	267
Ingersoll, Richmond H., assignor to M. M. Ingersoll, Biddeford, Me. Machine for drawing in warp-threads	628,628	July 11	1283	299, 300, 301	88	268
Ingersoll-Sergeant Drill Company. (See Sergeant, Henry C., assignor.)						
Inglehart, Walter A., Toronto, Canada. Fountain-spittoon	626,810	June 13	1087	244	87	1843
Inglehart, Walter A., Philadelphia, Pa. Dental plugger	635,893	Oct. 31	3615	833	89	773
Inglis, Otto E., Philadelphia, Pa. Cleaner for ships' hulls	622,232	Apr. 4	58	14	87	15
Inglis, Robert W., Summitville, Ind. Permutation-lock	635,549	Oct. 24	2946	673	89	629
Inglis, Thomas, Edinburgh, Scotland. Means and apparatus for balancing forward thrusts of screw-propellers of vessels	624,497	May 9	1017	229	87	918
Ingold, Emily M. (See Gatrell, Ottmar A., assignor.)						
Ingoldsby Automatic Car Company. (See Ingoldsby, Frank S., assignor.)						
Ingoldsby, Frank S., assignor to Ingoldsby Automatic Car Company, St. Louis, Mo. Dump-car	632,650	Sept. 5	804	187, 188	88	1866
Ingraham, Chester D., Penacook, N. H. Attachment for condensers of carding-machines	632,871	Sept. 12	1252	286	88	1971
Ingraham, Edmund, Philadelphia, Pa. Steam-boiler	638,930	Dec. 12	1378	314	89	2155
Inman, Edward R., Indianapolis, Ind. Carbureter	633,319	Sept. 19	2130	499	88	2153
Inman, Edward R., Indianapolis, Ind. Carbureter	633,320	Sept. 19	2132	500	88	2153
Inman, Harry A. (See Joslin, Frank M., assignor.)						
Innes, Isabella, assignor of one-fifth to G. A. Harper, Toronto, Canada. Safety-pin	619,756	Feb. 21	1762	404	86	1196
Inskeep, Charles C., and J. E. Chambers, Chicago, Ill. Opthalmometer	631,307	Aug. 22	2943	666	88	1353
Instant Lighter and Novelty Company. (See Armstrong, Ernest, assignor.)						
Instant Lighter and Novelty Manufacturing Company. (See Goff and Joiner, assignors.)						
International Arithmachine Company. (See Goldman, Henry, assignor.)						
International Bridle Company. (See Porter, Daniel R., assignor.)						
International Facsimilegraph Company. (See Dun Lany and Mills, assignors.)						
International Fermenting and Aging Company. (See Kropf, Paul, assignor.)						
International Incandescent Light Company. (See Hammon, Victor O., assignor.)						
International Incandescent Light Company. (See Hamrick, Harry M., assignor.)						

Alphabetical list of patentees—Continued.

Name, residence, and invention.	No.	Date.	Monthly volume. Spec.	Monthly volume. Dr'g.	Official Gazette. Vol.	Official Gazette. Page.
International Machine Company. (See Downs, Wallace A., assignor.)						
International Postal Supply Company. (See Hey, George W., assignor.)						
International Rubber Tire Company. (See Wayne, Herbert N., assignor.)						
International Seal and Lock Company. (See Tyden, Emil, assignor.)						
International Typal Telegraph Company. (See Himrod, Kirk, assignor.)						
International Typal Telegraph Company. (See Himrod, Tucker, and Hinckley, assignors.)						
Inventor's Novelty Manufacturing Company. (See Wentworth, Fred W., assignor.)						
Iowa Ballast and Improvement Company. (See Stubbs, Jesse, assignor.)						
Ireland, Charles L., deceased; L. M. Ireland, administratrix, assignor to Mergenthaler Linotype Company, New York, N. Y. Trimming mechanism for linotype-machines	636,001	Oct. 31	3818	878	89	813
Ireland, Lottie M., administratrix. (See Ireland, Charles L.)						
Ireson, Charles L., Boston, Mass. Packing compound	633,961	Sept. 26	3280	------	88	2393
Irgens, Paul, and G. M. Brun, Bergen, Norway. Means for converting heat into motoric force	617,022	Jan. 3	303	67,68	86	61
Irish, Charles S., and P. V. Markell, Jordan, N. Y. Adjustable seat-post for bicycles	617,831	Jan. 17	1864	417	86	402
Irish, Richard F. (See Hoffmann, Friedrich E., assignor.)						
Irish, Richard F. (See Welch, James H., assignor.)						
Irish, William E., Cleveland, Ohio. Electrode	626,787	June 13	1050	235	87	1837
Irvin, Daniel W., assignor of one-half to G. W. Irvin, Cedar Rapids, Iowa. Hair-pin	628,664	July 11	1370	319	88	284
Irvin, George W. (See Irvin, Daniel W., assignor.)						
Irvine, James K., *et al.* (See Cornwall, George, assignor.)						
Irving, Henry, New York, N. Y. Mechanical movement	619,420	Feb. 14	1157	262	86	1055
Irving, James A., assignor of one-half to G. M. Burns, Philadelphia, Pa. Multiphone	637,261	Nov. 21	2003	429	89	1360
Irving, Robert, Corwhin, Canada. Fastening for stall-chains	635,136	Oct. 17	2158	503	89	461
Irving, William. (See Toomey, James C., assignor.)						
Irwin, Arthur A., Philadelphia, Pa. Field-board for reporting foot-ball games	633,847	Sept. 26	3083	716	88	2354
Isaacs, Augusta R., Pittsburg, Pa. Folding cot	619,465	Feb. 14	1268	290	86	1077
Isaacs, Louis, Los Angeles, Cal. Glove-stretcher	620,873	Mar. 7	627	137	86	1626
Isachson, Norman, Marion, Idaho. Swivel connection	637,122	Nov. 14	1739	373	89	1294
Isbell, Frank, New York, N. Y. Mandolin	617,250	Jan. 3	732	170	86	143
Isbill, W. H. (See Cooper, Richard E., assignor.)						
Isbills, Edmond, Bayonne, N. J. Device for mending pneumatic tires	639,986	Dec. 26	3326	762	89	2575
Isgrig, Eli F., assignor of one-half to D. S. Hooper and L. E. Isgrig, Pierre, S. D. Mowing-machine attachment or hay-gatherer	631,794	Aug. 29	3852	858	88	1541
Isgrig, Eli F., and E. J. Phares, assignors of one-third to C. H. Anderson, Pierre, S. D. Earth-auger	616,928	Jan. 3	122	27	86	26
Isgrig, L. E., *et al.* (See Isgrig, Eli F., assignor.)						
Isham, Willard S., Washington, D. C., assignor, by mesne assignments, of one-half to D. W. Smith, Middlebury, Vt. Shell for high explosives	622,479	Apr. 4	524	124	87	99
Iske, Albert. (See Iske, Anthony and A.)						
Iske, Anthony and A., Lancaster, Pa. Reversible window-sash	630,508	Aug. 8	1504	336	88	1029
Isler, Max H., Mannheim, assignor to Badische Anilin and Soda Fabrik, Ludwigshafen, Germany. Blue dye and making same	617,686	Jan. 10	1565	------	86	324
Isler, Max H., Mannheim, assignor to Badische Anilin and Soda Fabrik, Ludwigshafen, Germany. Product from dinitro-naphthalene and making same	619,181	Feb. 7	733	------	86	955
Isler, Max H., Mannheim, assignor to Badische Aniiin and Soda Fabrik, Ludwigshafen, Germany. Xanthopurpurin sulfo acid	619,574	Feb. 14	1411	------	86	1104
Isler, Max H., Mannheim, assignor to Badische Anilin and Soda Fabrik, Ludwigshafen, Germany. Oxyanthraquinone sulfo acid and making same	621,679	Mar. 21	2113	------	86	1937
Israel, Earl H., assignor to L. M. Rumsey Manufacturing Company, St. Louis, Mo. Pipe connection	617,251	Jan. 3	732	170	86	143
Itzig, Philipp, *et al.* (See Buddeus, Wilhelm, assignor.)						
Ivatt, Henry A., Doncaster, England. Means for holding cycles	621,819	Mar. 28	2383	533	86	2003
Ivelli, Beniamino, New York, N. Y. Combination-tool	634,753	Oct. 10	1445	340	89	303
Ivens, Edmund M., New Orleans, La. Cotton-press	623,020	Apr. 11	1506	349 350	87	307
Ivens, Edmund M., New Orleans, La. Centrifugal pump	632,572	Sept. 5	667	154 155	88	1838
Ives, Albert J., assignor of one-half to C. Raber, Aurora, Ill. Door-hanger	639,987	Dec. 26	3327	762	89	2575
Ives, Chester, London, England. Treating gelatin, glycerin, and bichromate of potash	623,608	Apr. 25	2601	------	87	556
Ives, Frederic E., Philadelphia, Pa. Reflector for use in photochromoscopes, &c	622,480	Apr. 4	528	124	87	100
Ives, Frederic E., Philadelphia, Pa. Photographic camera	632,573	Sept. 5	670	155	88	1839
Ives, Frederic E., Philadelphia, Pa. Photochromoscope or photochromoscope-camera	635,253	Oct. 17	2348	548	89	497
Ives, William, Halifax, England. Wheel	630,705	Aug. 8	1850	417 418	88	1096
Ivins, Dietz & Metzger Company. (See Hardwick, Harry, assignor.)						
Ivory, James W. (See McLaren, Hugh, assignor.)						
Ivory, James W., Philadelphia, Pa. Tooth-clamp	634,731	Oct. 10	1410	332	89	298
Ivory, James W., Philadelphia, Pa. Fastener for dental instruments	634,732	Oct. 10	1411	333	89	298
J. A. Fay & Egan Company. (See Bugbee, George W., assignor.)						
J. A. Fay & Egan Company. (See Robinson, La Fayette G., assignor.)						
J. A. Fay & Egan Company. (See Thomas, John R., assignor.)						
J. A. Kelly & Bros. (See Kelly, William J., assignor.)						
J. E. Forsyth Company. (See Forsyth, Joseph E., assignor.)						
J. E. Mergott Company. (See Fuller, Albert F., assignor.)						
J. & E. Stevens Company. (See Bailey, Charles A., assignor.)						
J. E. Turney Drying Machinery Company. (See Hinken, John H., assignor.) (Reissue.)						
J. H. Horne & Sons Company. (See Barrett and Horne, assignors.)						
J. H. Williams Company. (See Shuster, Franklin B., assignor.)						
J. I. Case Plow Works. (See Sobey, William, assignor.)						
J. I. Case Threshing Machine Company. (See Dingee, William W., assignor.)						
J. I. Case Threshing Machine Company. (See Gardner, Charles L., assignor.)						
J. I. Case Threshing Machine Company. (See Morris, George W., assignor.)						
J. I. Case Threshing Machine Company. (See Stuckel, Frank C., assignor.)						
J. K. Farley Manufacturing Company. (See Price, John I., assignor.)						
J. L. Mott Iron Works. (See Hooper, Louis M., assignor.)						
J. L. Mott Iron Works. (See Horne, Rolland H., assignor.)						
J. L. Mott Iron Works. (See Lloyd, William H., assignor.)						
J. Stevens Tool and Arms Company. (See Fay, Charles P., assignor.)						
J. Thompson & Sons Manufacturing Company. (See Lewis, George W., assignor.)						
J. W. Sefton Manufacturing Company. (See Ferres, Jeffrey T., assignor.)						
J. W. Sefton Manufacturing Company. (See Reber, John G., assignor.)						
J. W. Sefton Manufacturing Company. (See Schmidt, Theodore F. W., assignor.)						
J. W. Sefton Manufacturing Company. (See Wade, Frank M., assignor.)						
Jaccard, Ami C., Hoboken, N. J. Musical instrument	629,257	July 18	2424	561	88	506

Alphabetical list of patentees—Continued.

Name, residence, and invention.	No.	Date.	Monthly volume.		Official Gazette.	
			Spec.	Dr'g.	Vol.	Page.
Jack, Alexander, Motherwell, Scotland. Apparatus for charging materials into open-hearth furnaces	632,183	Aug. 29	4569	1029	88	1682
Jack, Joseph W., Truro, Canada. Toy	625,680	May 23	3110	707	87	1367
Jack, Robert C. (See Hogue and Jack.)						
Jackman, Royal, Anthony, N. Mex. Ter. Lantern	639,988	Dec. 26	3331	763	89	2576
Jackman, Wilbert J., Lima, Ohio. Apparatus for burning hydrocarbon-oil	634,463	Oct. 10	933	222	89	204
Jacks, Moritz, New York, N. Y. Dress-shield pocket for garments	639,242	Dec. 19	1941	447	89	2279
Jackson, Addiel M., Milledgeville, Ga. Cooling attachment for dental impression-trays	637,123	Nov. 14	1740	373	89	1295
Jackson, Arthur J., Toronto, Canada. Suspenders	620,140	Feb. 28	2472	561	86	1347
Jackson, Benjamin F., Cambridge, Mass., assignor to R. Hoe, T. H. Mead, and C. W. Carpenter, New York, N. Y. Gas-burner	622,482	Apr. 4	531	125	87	100
Jackson, Calvin, assignor to Kelley Bros. & Spielman, Philadelphia, Pa. Belt-clamp	639,922	Dec. 26	3203	735	89	2551
Jackson, Charles A., assignor of one-half to H. B. Jackson, Lebanon, N. H. Cloth-cutter	636,998	Nov. 14	1489	320	89	1248
Jackson, Charles E., Rockford, Ill. Corn-planter	620,710	Mar. 7	318	65, 66	86	1563
Jackson, Charles E., Rockford, Ill. Horse hay-rake	635,550	Oct. 24	2948	673, 674	89	630
Jackson, Charles E., Rockford, Ill. Draft-equalizer	639,052	Dec. 12	1579	361	89	2194
Jackson, Charles J., Erie, Pa. Vise	631,013	Aug. 15	2402	545	88	1228
Jackson & Church. (See Alden, Leo D., assignor.)						
Jackson, David, assignor to Jackson Patent Shell Roll Company, Pawtucket, R. I. Tube-holder for spooling-machines	619,309	Feb. 14	971	220	86	1019
Jackson Drill and Manufacturing Company. (See Jackson, Manetho C., assignor.)						
Jackson, Dugald C., Madison, Wis. Means for securing electrical unity of systems of metallic pipes or mains	622,481	Apr. 4	529	124	87	100
Jackson, Edwin. (See Jackson, Samuel, assignor.)						
Jackson, Franklin E., and L. R. Henley, Greentown, Ind. Gold-separator	618,270	Jan. 24	2701	599	86	575
Jackson, Green P. (See Benjamin and Jackson.)						
Jackson, Henry B. (See Jackson, Charles A., assignor.)						
Jackson, James, Helena, Ala. Reversible rotary engine	624,814	May 9	1590	361	87	1033
Jackson, John, Glendon, assignor of one-half to W. K. Jackson, Carthage, N. C. Automatic railway-gate	620,656	Mar. 7	214	44	86	1544
Jackson, John, Lonsdale, assignor of one-third to D. F. Logan, Providence, R. I. Bottle-filling apparatus	622,483	Apr. 4	532	125	87	101
Jackson, John D., Detroit, Mich. Back-pedaling brake	636,045	Oct. 31	3892	893, 894	89	827
Jackson, John H. (See Farley and Jackson.)						
Jackson, John L., Chicago, Ill. Non-refillable bottle	619,310	Feb. 14	972	220	86	1019
Jackson, John L., Chicago, Ill. Non-refillable bottle	619,311	Feb. 14	974	220	86	1020
Jackson, John L., Chicago, Ill. Non-refillable bottle	619,312	Feb. 14	977	220	86	1021
Jackson, John T., Crawford, Nebr. Stock-car	618,986	Feb. 7	375	78	86	883
Jackson Knife and Shear Company. (See Nickerson, Luke A., assignor.)						
Jackson, Manetho C., assignor to Jackson Drill and Manufacturing Company, Denver, Colo. Rock-drill	620,847	Mar. 7	580	126	86	1616
Jackson, Mark A., Philadelphia, Pa. Roofing tile or slate fastening	625,509	May 23	2826	643	87	1311
Jackson Patent Shell Roll Company. (See Jackson, David, assignor.)						
Jackson, Peter H., San Francisco, Cal. Floor, sidewalk-vault roof, or like structure	621,091	Mar. 14	1043	229	86	1714
Jackson, Peter H., San Francisco, Cal. Waterproof sidewalk, floor, or roof construction	638,870	Dec. 12	1272	289	89	2133
Jackson, Philip A., Goodwater, Ala. Device for resetting plow-scrapers	631,543	Aug. 22	3376	766	88	1440
Jackson, Rufus A., *et al.* (See Hynds, David H., assignor.)						
Jackson, Rufus A., *et al.* (See Shoffner, Munroe V., assignor.)						
Jackson, Samuel, assignor to E. Jackson, Syracuse, N. Y. Friction-clutch	628,328	July 4	723	167	88	139
Jackson, Sheldon E., Weston, Mich. Stay for wire fences	620,590	Mar. 7	71	14	86	1517
Jackson & Sons, James. (See Pavia, Giuseppe, assignor.)						
Jackson, Thomas A. (See Dodds and Jackson.)						
Jackson, Thomas A., Adelaide, Pa. Game-board	625,557	May 23	2912	661	87	1328
Jackson, W. K. (See Jackson, John, assignor.)						
Jackson, Walter, assignor of one-half to A. A. Jones, Leicester, England. Stitch-wheeling machine	625,303	May 16	2460	559	87	1214
Jackson, Walter W. (See Weston and Jackson.)						
Jackson, William, Allegheny, Pa. Car-fender	639,577	Dec. 19	2564	589	89	2405
Jackson, William, Traverse, assignor to A. W. Wells and J. Higman, Jr., St. Joseph, Mich. Basket-making machine	619,182	Feb. 7	733	159	86	955
Jackson, William B., Pueblo, Colo. Chlorinating ores	625,397	May 23	2628	597	87	1272
Jackson, William E., Jr., Augusta, Ga. Mattress	620,591	Mar. 7	72	14	86	1517
Jackson, William H., Bradford, England. Device for facilitating lighting of cycle or other lamps	631,891	Aug. 29	4004	896	88	1572
Jackson, William H., assignor to J. Marshall & Brothers, Fall River, Mass. Hat-pouncing machine	629,190	July 18	2310	536, 537	88	486
Jackson, Wilton D., Philadelphia, Pa. Fusee	617,576	Jan. 10	1368	310	86	285
Jaco, John E., Rowland, Tenn. Pea-harvester	622,484	Apr. 4	534	126	87	101
Jacobi, Walther, *et al.* (See Koch, Max, assignor.)						
Jacobs, Adam, East Riverside, Pa. Device for raising or lowering steamboat-stacks	635,487	Oct. 24	2839	648	89	609
Jacobs, Arthur E., Cleveland, Ohio. Reproducing device	637,262	Nov. 21	2004	429, 430	89	1361
Jacobs, Arthur E., Cleveland, Ohio. Reproducing device	637,263	Nov. 21	2006	430	89	1361
Jacobs, Arthur I., Hartford, Conn., assignor, by mesne assignments, to Wire Goods Company, Worcester, Mass. Stud-forming machine	621,418	Mar. 21	1618	359, 360	86	1840
Jacobs, Augustus G., Jonestown, Miss. Clock winding-indicator	623,158	Apr. 18	1795	411	87	378
Jacobs, Augustus G., Jonestown, Miss. Toy cannon	623,159	Apr. 18	1797	412	87	378
Jacobs, Augustus G., Jonestown, Miss. Toy battle-ship	623,160	Apr. 18	1798	412	87	378
Jacobs, Augustus G., Jonestown, Miss. Device for killing insects	629,998	Aug. 1	511	112	88	824
Jacobs, Augustus G., Jonestown, Miss. Operating-handle for combination-locks	629,999	Aug. 1	512	112	88	824
Jacobs, Augustus G., Jonestown, Miss. Blow-gun	632,838	Sept. 12	1199	273	88	1961
Jacobs, Charles, Louisville, Ky. Hitching device	637,795	Nov. 28	3359	704	89	1689
Jacobs, Charles B., assignor to Ampere Electro-Chemical Company, East Orange, N. J. Reducing metals from their solutions	624,040	May 2	162	36	87	733
Jacobs, Charles B., assignor to Ampere Electro-Chemical Company, East Orange, N. J. Manufacturing soluble barium compounds	624,041	May 2	164	------	87	734
Jacobs, Charles B., assignor to Ampere Electro-Chemical Company, East Orange, N. J. Making benzin and homologues	635,017	Oct. 17	1899	452	89	410
Jacobs, David, Pittsburg, Pa. Mining-brace	617,163	Jan. 3	587	138	86	115
Jacobs, Harry W. (See Dusheck, John, assignor.)						
Jacobs, Jacob, New York, N. Y. Light for sidewalks, &c	619,575	Feb. 14	1412	325	86	1104
Jacobs, Jacob, New York, N. Y. Illuminating-tile	630,706	Aug. 8	1852	418	88	1096
Jacobs, James E., Reading, Pa. Automatic tire-pump	625,034	May 16	1977	441	87	1124
Jacobs, Jehu, Henley, Cal. Endless-belt concentrator	624,215	May 2	492	105	87	794

Alphabetical list of patentees—Continued.

Name, residence, and invention.	No.	Date.	Monthly volume.		Official Gazette.	
			Spec.	Dr'g.	Vol.	Page.
Jacobs, John, Florence, Colo. Rabble-arm for ore-roasting furnaces	622,233	Apr. 4	61	14	87	15
Jacobs, Olaus B., Roland, Iowa. Gate	634,351	Oct. 3	733	175	89	147
Jacobs, Parmenas C. (See Jacobs, William J., assignor.)						
Jacobs, Roy W., Huntingdon, Pa. Boiler	632,720	Sept. 12	984	228	88	1916
Jacobs, William J., Bargersville, assignor to P. C. Jacobs, Irvington, Ind. Device for attaching stay-wires to wire fences	627,191	June 20	1798	394	87	2001
Jacobson, Andreas E., New York, N. Y. Bed	618,882	Feb. 7	117	25	86	827
Jacobson, Edward B., assignor to J. H. Liverpool, Boston, Mass. Gas-cock	623,161	Apr. 18	1800	412	87	379
Jacobson, John, Boston, assignor to J. F. Dorsey, Winchester, Mass. Pictorial reproduction	624,042	May 2	165	36	87	734
Jacobson, John, Boston, assignor to J. F. Dorsey, Winchester, Mass. Stereograph	624,043	May 2	166	36	87	734
Jacobson, John, and E. Wessman, Rockford, Ill. Pulley-covering	619,486	Feb. 14	1269	290	86	1077
Jacobson, Nathaniel, Manchester, England. Cap	630,707	Aug. 8	1853	418, 419	88	1096
Jacobson, Peter F., Waterville, Kans. Window-guard	630,509	Aug. 8	1505	337	88	1029
Jacobus, Isaac M. (See Buchanan, John B., assignor.)						
Jacobus, Pierson. (See Bartlett, Jacobus, and Stamm.)						
Jacomet, Zacharie, Marseilles, France, assignor to J. Stein, London, England. Pump	622,693	Apr. 11	934	215	87	197
Jacot, Aristides H., New York, N. Y. Musical instrument	624,655	May 9	1296	289	87	973
Jacques, Leopold, and L. Painchaud, Salem, Mass. Loom picking device	622,485	Apr. 4	538	126	87	102
Jadicke, Julius C., and J. Wiener, Wilmington, Del. Leather-grading machine	638,337	Dec. 5	285	58, 59	89	1921
Jaeger, Alexander. (See Jaeger, Otto and A.)						
Jaeger, Alexander and O., Philadelphia, Pa. Vending-machine	627,505	June 27	2410	529, 530	87	2139
Jaeger, Charles L., New York, N. Y. Electric recording apparatus	620,326	Feb. 28	2795	639	86	1408
Jaeger, Charles L., Maywood, N. J. Electric recording system	620,327	Feb. 28	2797	640	86	1409
Jaeger, Charles L., Maywood, N. J. Electric recording system	639,053	Dec. 12	1579	362, 363, 364	89	2194
Jaeger, Frank C., Belview, Minn. Wrench	639,243	Dec. 19	1942	447	89	2279
Jaeger, Otto. (See Jaeger, Alexander and O.)						
Jaeger, Otto and A., Philadelphia, Pa. Ejector for coin-detectors for money-controlled machines	638,967	Dec. 12	1441	329	89	2168
Jaeger, Paul, Esslingen, Germany. Tool-handle and means for securing same	621,570	Mar. 21	1908	427	86	1895
Jaenichen, Louis, Detroit, Mich. Quick-repair device for pipes	625,448	May 23	2726	620	87	1290
Jagels, Henry R., Philadelphia, Pa. Sounding apparatus for holds of vessels	621,251	Mar. 14	1328	295	86	1772
Jager, Simon de, Paterson, N. J. Electrical signaling	626,494	June 6	509	119	87	1712
Jahr, Herman, *et al.* (See Kall, Arnold G., assignor.)						
Jakubowski, Sigismund, Buffalo, N. Y. Waterproof oil-filler for leather	634,754	Oct. 10	1447	------	89	304
Jamain, Paul E. M., Dijon, France. Apparatus for compressing powdered substances	628,225	July 4	495	118, 119, 120	88	99
James, Arthur F., Chadville, Pa. Necktie-fastener	630,708	Aug. 8	1854	419	88	1096
James, David. (See Burke and James.)						
James, Dorr H., Albany, Oreg. Shade-trimmer	623,021	Apr. 11	1512	350	87	308
James E. Blake Company. (See Saart, William H., assignor.)						
James, Ernest C. F., London, England. Folding boat	638,338	Dec. 5	287	59	89	1921
James, Frederick H. L., Pawtucket, R. I., assignor to Saco & Pettee Machine Shops, Newton, Mass. Evening device for cotton-openers	631,795	Aug. 29	3853	858, 859	88	1541
James, Jacob, Ironton, Ohio. Apparatus for heating rolls	623,312	Apr. 18	2066	474	87	432
James, John, Polo, Ill. Seat	634,352	Oct. 3	735	176	89	147
James, John W., Salt Lake City, Utah. Sled-brake	624,498	May 9	1019	230	87	918
James & Mayer Buggy Company. (See Mayer, Louis G., assignor.)						
James Smith & Company. (See Brown, Franklin, assignor.)						
James Smith & Company. (See Miller, Norman B., assignor.)						
James Smith Woolen Machinery Company. (See Vaughn, Warton A., assignor.)						
James, Thomas L., Fairfield, Iowa. Dental handpiece	637,338	Nov. 21	2166	466, 467	89	1393
James, Ulysses S., assignor of one-half to R. A. Bell, Helena, Mont. Concentrating-table	633,265	Sept. 19	2016	473, 474	88	2130
James, Ulysses S., and L. H. Graves, Helena, Mont.; said James assignor to said Graves. Vise	631,991	Aug. 29	4184	941	88	1606
James, Will S., Fort Worth, Tex. Window-fastener	629,446	July 25	2779	645	88	597
James, William F., Quintana, Tex. Rotary engine	634,755	Oct. 10	1448	340	89	304
James, William H., Tulse Hill, England. Lemon-squeezer	628,470	July 11	975	226	88	208
James, William H., assignor to E. H. Huenefeld, Cincinnati, Ohio. Wood-burning stove	629,191	July 18	2312	537	88	487
Jamieson, James, Hamilton, Canada. Bicycle-brake	633,266	Sept. 19	2019	474	88	2131
Jamieson, James A., Montreal, Canada. Bearing	634,822	Oct. 10	1553	365	89	325
Jamieson Manufacturing Company. (See Jamieson, Robert W., assignor.)						
Jamieson, Richard W., Roanoke, Ind. Nut-lock	621,456	Mar. 21	1703	376	86	1856
Jamieson, Robert W., Rochester, N. Y. Gearing	620,074	Feb. 21	2342	531	86	1308
Jamieson, Robert W., Rochester, N. Y. Running-gear for vehicles	636,999	Nov. 14	1491	321	89	1248
Jamieson, Robert W., assignor to Jamieson Manufacturing Company, Rochester, N. Y. Gearing	630,709	Aug. 8	1856	419	88	1096
Jamieson, Robert W., assignor to Jamieson Manufacturing Company, Rochester, N. Y. Angle-gearing	630,710	Aug. 8	1857	419	88	1097
Jamieson, T. N., trustee. (See Ulrichs, Otto, assignor.)						
Jamison, Harry A. (See Wickersham and Jamison.)						
Janeway, Price W., *et al.* (See Logan, Ferdinand, assignor.)						
Janin, C. C., *et al.* (See Connett, Matthew F., assignor.)						
Janney, Eli H., Fairfax county, Va. Car-coupling	628,329	July 4	724	167	88	135
Janney, Eli H., Fairfax county, Va. Car-coupling	628,330	July 4	726	168	88	139
Janney, Reynold, Westborough, Mass. Dust-proof bearing	625,449	May 23	2727	620, 621	87	1291
Janney, Reynold, Keene, N. H. Adjusting-washer	628,941	July 18	1868	432	88	400
Jansen, Bruno, Augsburg, Germany. Power-transmitting mechanism	632,944	Sept. 12	1393	322	88	1996
Jansen, Isaac, Sheboygan, Wis. Darning-last	639,989	Dec. 26	3332	763	89	2576
Jansen, Minna, New York, N. Y. Suspenders and waist-holder	631,641	Aug. 22	3551	800	88	1474
Janson, Ernest N., Washington, D. C. Boiler	627,754	June 27	2875	628, 629	87	2233
Janssen, Henry. (See Thun and Janssen.)						
Janssen, Henry, Reading, Pa. Bobbin-carrier	618,541	Jan. 31	3215	713	86	688
Janssen, Henry, Reading, Pa. Bobbin-carrier	618,542	Jan. 31	3216	713	86	688
Janssen, Hermann, Elberfeld, Germany, assignor to Farbenfabriken of Elberfeld Company, of New York. Bismuth compound and making same	620,141	Feb. 28	2473	------	86	1347

Alphabetical list of patentees—Continued.

Name, residence, and invention.	No.	Date.	Monthly volume.		Official Gazette.	
			Spec.	Dr'g.	Vol.	Page.
Jansson, Johan A., Hagalund, Sweden. Device for supporting bodies of vehicles	623,787	Apr. 25	2941	671, 672	87	621
Janton, Charles, Philadelphia, Pa. Suspenders	629,507	July 25	2914	678	88	623
Jantz, Gustave H., Wyoming, W. Leist, Norwood, and O. W. Jentz, Cincinnati, Ohio. Commutator-brush holder	624,815	May 9	1590	362	87	1033
Jantz, Otto W. (See Jantz, Leist, and Jantz.)						
Japiot, Joseph, assignor to G. Held, Paris, France. Last	639,990	Dec. 26	3333	763	89	2576
Jaque, Joseph, St. Louis, Mo. Insole	623,549	Apr. 25	2496	573	87	536
Jaques, William, Royersford, Pa. Lemon cutter and squeezer	620,142	Feb. 28	2473	561, 562	86	1348
Jardine, Agnes, *et al.* (See Matthews, Marmaduke, assignor.)						
Jardine, Alexander, *et al.* (See Matthews, Marmaduke, assignor.)						
Jardine, John. (See Powell, Colville, Jardine, and Mackenzie.)						
Jared, Gilbert, assignor of one-half to W. Rawalt, Prairie City, Ill. High-explosive shell	633,458	Sept. 19	2375	559	88	2200
Jarmin, James B., Osceola, Nebr., assignor to A. B. Frenier, Davenport, and C. I. Burt, Lake City, Iowa. Automatic corn-planter	630,890	Aug. 15	2165	492, 493	88	1183
Jarmin, James B., Osceola, Nebr., assignor to A. B. Frenier, Davenport, and C. I. Burt, Lake City, Iowa. Automatic check-row corn-planter	630,891	Aug. 15	2172	493, 494	88	1185
Jarmin, James B., Osceola, Nebr., assignor to A. B. Frenier, Davenport, and C. I. Burt, Lake City, Iowa. Automatic check-row planter	632,122	Aug. 29	4438	997, 998	88	1657
Jarmin, James B., Osceola, Nebr., assignor, by mesne assignments, to Implement Manufacturing Company, Davenport, Iowa. Automatic corn-planter	638,721	Dec. 12	1017	228, 229	89	2084
Jarrell, Edwin, assignor of one-half to J. McArdle, Riverdale, Kans. Tongue-support	618,271	Jan. 24	2702	599	86	575
Jarrett, Jeff D., Ketchall, Tenn. Monument	627,424	June 20	2260	499	87	2093
Jarrett, John. (See Faux, Joseph A., assignor.)						
Jarvis, Charles M., Stewart, Ohio. Stop and waste cock	619,256	Feb. 7	864	189	86	981
Jarvis, Philip, Cedar Rapids, Nebr. Double-row cultivator	619,183	Feb. 7	736	159, 160	86	955
Jarvis, Samuel E., Lansing, Mich. Liner for centrifugal creamers	635,780	Oct. 31	3383	781	89	728
Jarvis, Thomas R., Stockbridge, N. Y. Driving-gear	624,816	May 9	1593	362	87	1033
Jasper, Wilhelm, assignor of one-half to M. Mindheim, New York, N. Y. Explosive-motor	626,206	May 30	4201	955	87	1590
Jaspersen, Max. (See Brauer and Jaspersen.)						
Jaubert, George F. (See Bernthsen and Jaubert.)						
Javitch, Rubin, Monongah, W. Va. Agricultural implement	628,887	July 11	1756	411	88	362
Jaycox, Ferris, Garrison, N. Y. Wagon running-gear	630,711	Aug. 8	1858	420	88	1097
Jaynes, Charles P. (See Pierce, Clarence A., assignor.)						
Jeager, Gustave, assignor to M. Jeager, Philadelphia, Pa. Globe clock	637,871	Nov. 28	3519	736	89	1721
Jeager, Margaret. (See Jeager, Gustave, assignor.)						
Jeansén, Carl F., Washington, D. C. Sight mechanism for disappearing guns	626,909	June 13	1313	289	87	1887
Jeavons, William R. (See Lannert and Jeavons.)						
Jeavons, William R., assignor to United Blue Flame Stove Company, Cleveland, Ohio. Burner	617,291	Jan. 3	817	191	86	161
Jeckel, Nicolaj R., Skagen, Denmark. Block for building moles, dams, piers, &c	637,935	Nov. 28	3632	761, 762	89	1744
Jeffers, Charles B., Logansport, Ind. Shooting-gallery	631,720	Aug. 22	3700	829, 830	88	1502
Jeffers, William A., Mulberry, Ark. Gate-latch	633,008	Sept. 12	1495	347	88	2017
Jefferson Brass Works. (See Bragger, John W., assignor.)						
Jefferson, Thomas M., Buffalo, N. Y. Portable water-supply reservoir	638,339	Dec. 5	288	59	89	1921
Jeffery, Sherman, Meriden, Iowa. Combined pitchfork and rake	631,166	Aug. 15	2681	606	88	1283
Jefferys, William, East Orange, N. J. Sewer or drain pipe or conduit for waterways	628,942	July 18	1869	433	88	401
Jeffrey, Joseph A. (See Legg, Benjamin A., assignor.)						
Jeffrey, Joseph A. (See Miller, Charles W., assignor.)						
Jeffrey, Joseph A. (See Mills, Edwin H., assignor.)						
Jeffrey, Joseph A. (See Sheldrick, David J., assignor.)						
Jeffrey, Robert H., Pinos Altos, Mexico. Ore-feeder	635,781	Oct. 31	3385	781, 782	89	729
Jeffreys, George H. (See Bradbury and Washington, assignors.)						
Jeffries, Gideon S., Reading, Pa. Automatic safety appliance for railways	624,337	May 2	721	160	87	838
Jeffs, John W. (See Kirk and Jeffs.)						
Jemison, Robert W., Macon, Ga. Perpetual railway-train schedule and time-card	638,462	Dec. 5	534	109	89	1969
Jenanyan, Harutune S. (See Hamalian, George H., assignor.)						
Jenkins, Arthur M., assignor to Cleveland Target Company, Cleveland, Ohio. Target-trap	622,924	Apr. 11	1335	307	87	272
Jenkins, Arthur M., Norristown, Pa., assignor to Cleveland Target Company, Cleveland, Ohio. Target-trap	624,044	May 2	166	37	87	734
Jenkins, Charles H., Newark, N. J., assignor of one-half to F. B. Kendrick and W. F. Davis, Lebanon, N. H. Watchmaker's tool	627,669	June 27	2726	597	87	2201
Jenkins, Charles H., Newark, N. J., assignor of one-half to F. B. Kendrick and W. F. Davis, Lebanon, N. H. Watch-barrel contractor	627,670	June 27	2727	598	87	2202
Jenkins, D. H., *et al.* (See Edgar, Lucien B., assignor.)						
Jenkins, Evan L. (See Jenkins, John W., assignor.)						
Jenkins, Herbert T., assignor of one-half to W. E. Bennett, Portsmouth, N. H. Automatic lamp-flame extinguisher	618,355	Jan. 24	2846	632	86	603
Jenkins, James M. (See Dunn, William R., assignor.)						
Jenkins, John, Jr. (See Lay, Robert J., assignor.)						
Jenkins, John C., assignor to A. B. Crosby, Toronto, Canada. Bicycle repair-link	626,383	June 6	326	75	87	1676
Jenkins, John W., assignor of one-half to E. L. Jenkins, Danville, Ill. Multiplying-camera	620,036	Feb. 21	2278	517	86	1296
Jenkins, William, assignor of one-half to J. Doust, Toronto, Canada. Ball-bearing for wheels	639,732	Dec. 26	2853	657	89	2480
Jenkinson, Alexander M., assignor to R. & W. Jenkinson Company, Pittsburg, Pa. Box	639,054	Dec. 12	1587	364	89	2195
Jenks, Daniel B., assignor to Fales & Jenks Machine Company, Pawtucket, R. I. Spinning-frame	631,524	Aug. 22	3335	758	88	1432
Jenks, Oren J., and T. M. Himes, Merrill, Wis. Window brace and fastener	638,845	Dec. 12	1225	276	89	2125
Jenks, William S., Hutchinson, Kans. Chopping-knife	634,892	Oct. 17	1685	398	89	367
Jenner, Charles G., guardian. (See Biedinger, Charles G.)						
Jennings, Curtis M., St. Louis, Mo. Car-roof	632,016	Aug. 29	4228	951, 952	88	1615
Jennings, John W., and J. O. Spradling, Kearney, Mo. Wire fence	624,045	May 2	173	37	87	735
Jennings, Joseph H., Middleway, W. Va. Cider-press	623,281	Apr. 18	2012	462	87	422
Jennings, Linson D., Chautauqua, N. Y., assignor of one-third to E. A. Pitkin, Washington, D. C. Acetylene-gas generator	626,384	June 6	327	75,76	87	1676

Alphabetical list of patentees—Continued.

Name, residence, and invention.	No.	Date.	Monthly volume. Spec.	Monthly volume. Dr'g.	Official Gazette. Vol.	Official Gazette. Page.
Jennings, Robert E., *et al.* (See Wussow, William H., assignor.)						
Jennings, William, *et al.* (See Hermann, Robert A. M., assignor.)						
Jennings, William C., Camden, N. J., assignor to Watson & McDaniel Company, Philadelphia, Pa. Steam-separator	633,760	Sept. 26	2937	682	88	2323
Jennison, Herbert E., Fitchburg, Mass. Valve for water and steam pipes	637,264	Nov. 21	2009	431	89	1362
Jensen, Chris P., and J. H. Rowe, Watsonville, Cal. Sugar-beet cultivator	633,267	Sept. 19	2020	474, 475	88	2131
Jensen, Hans P., Mankato, Minn. Sleigh	635,254	Oct. 17	2350	548	89	497
Jensen, Jess A., Copenhagen, Denmark. Stove or heating apparatus, &c	627,643	June 27	2683	588	87	2193
Jensen, Jess A., Copenhagen, Denmark. Hinge for doors of heating-furnaces	629,447	July 25	2780	646	88	597
Jensen, Louis C., Blooming Prairie, Minn. Door-check	624,941	May 16	1831	411	87	1096
Jensen, Martin C., assignor of one-fourth to R. B. Herzer, Nashville, Tenn. Repeating alarm-clock	634,353	Oct. 3	736	176	89	147
Jensen, Soren, and J. Comar, Providence, R. I. Loom cloth-measurer	632,965	Sept. 12	1430	330	88	2003
Jensen, Thomas, Arendal, Norway. Plate-shears	632,351	Sept. 5	255	60	88	1757
Jensen, Thomas, Arendal, Norway. Monkey-wrench	639,812	Dec. 26	3016	694	89	2513
Jeppesen, Peter W., Bloomfield, Nebr. Drop-actuating mechanism for seed-planters	620,781	Mar. 7	455	94	86	1591
Jerauld, Dluarej N., Newport, Ky. Fire-escape	637,615	Nov. 21	3035	625	89	1603
Jerdee, Mike H., Dawson, Minn. Harrow-tooth	639,813	Dec. 26	3017	694	89	2513
Jerguson, Andrew P. (See Bishop and Jerguson.)						
Jernberg, Gustaf, assignor to Emerson Manufacturing Company, Rockford, Ill. Wheeled plow	629,722	July 25	3287	766, 767	88	694
Jernberg, Laurence W., Cleveland, Ohio, assignor, by mesne assignments, to American Steel and Wire Company, of New Jersey. Straightening-machine	637,466	Nov. 21	2392	517, 518	89	1439
Jerome, Anthony, assignor to A. Featherstone & Company, Chicago, Ill. Handle-bar fastening	618,681	Jan. 31	3462	773	86	736
Jerome, Anthony, assignor to A. Featherstone & Company, Chicago, Ill. Handle-bar fastening	620,848	Mar. 7	582	126	86	1617
Jerome, Anthony, assignor to A. Featherstone & Company, Chicago, Ill. Rear-fork end for cycles	622,006	Mar. 28	2741	619	86	2073
Jerome, Anthony, assignor to A. Featherstone & Company, Chicago, Ill. Crank-axle for cycles	623,373	Apr. 18	2177	500	87	454
Jervey, C. Heyward, *et al.* (See Johnson, Henry P., assignor.)						
Jesseman, Ira, Lisbon, N. H., assignor to W. F. Hinckley, Brookline, Mass. Hammock-chair	636,669	Nov. 7	795	176	89	1083
Jessup, Robert W., assignor of one-half to F. H. Wheelan, San Francisco, Cal. Separator	639,855	Dec. 26	3083	709	89	2526
Jessurun, Albert E., *et al.* (See Davis, John H., assignor.)						
Jester, Alzina H. (See Smith, George L., assignor.)						
Jevons, Samuel. (See Richardson, Jevons, and Gent.)						
Jewell, Edward W., Chicago, Ill. Electrical measuring instrument	629,130	July 18	2210	513	88	468
Jewell, Edward W., Chicago, Ill. Electrical measuring instrument	631,871	Aug. 29	3975	889	88	1566
Jewell, Johnson A., deceased; S. E. Jewell, administratrix, assignor to L. N. Stacher, Ottawa, Kans. Reeling mechanism for fencing-machines	628,809	July 11	1627	376	88	339
Jewell, Major R., Seneca Falls, N. Y. Game-board	622,858	Apr. 11	1214	283	87	249
Jewell, Major R., Seneca Falls, N. Y. Means for storing bicycles	639,991	Dec. 26	3335	763, 764	89	2576
Jewell, Omar H. and W. M., assignors to O. H. Jewell Filter Company, Chicago, Ill. Sterilizer	637,796	Nov. 28	3361	704, 705	89	1689
Jewell, Susan E., administratrix. (See Jewell, Johnson A.)						
Jewell, William M. (See Jewell, Omar H. and W. M.)						
Jewett, Fred S., Laconia, N. H. Bracket	617,164	Jan. 3	588	138	86	115
Jewett, George M., *et al.* (See Walkins, Louis E., assignor.)						
Jewett, John H., Ingalls, Mich. Saw	630,234	Aug. 1	931	203	88	906
Jibben, William G., Westborough, Mo. Unloader	639,396	Dec. 19	2240	518	89	2340
Jillson, Edwin M., West Carrollton, Ohio. Banking-zinc for pen-bars	637,797	Nov. 28	3363	705	89	1689
Joans, James A., Jersey City, N. J. Screw-ferrule	616,929	Jan. 3	124	28	86	26
Jobson, George, London, England. Lookout-window	624,656	May 9	1297	289	87	973
Jocelyn, Albert H., New York, N. Y. Amalgamator	620,328	Feb. 28	2799	640	86	1409
Jocelyn, Albert H., New York, N. Y. Chainless-bicycle gearing	620,929	Mar. 14	725	160, 161	86	1655
Jocelyn, Albert H., New York, N. Y. Amalgamator	621,092	Mar. 14	1045	229	86	1715
Joedicke, Otto, Mühlhausen, Germany. Switch for electric traction systems	639,127	Dec. 12	1720	396	89	2221
Joel, Henry F., London, England. Automotor-carriage	625,772	May 30	3300	749	87	1421
Johansen, Charles H., Chicago, Ill. Removable head-section for beds	627,233	June 20	1871	410	87	2015
Johanson, Johan A. (See Olson and Johanson.)						
Johanson, Olof, New York, N. Y. Regulator for hair-springs of clocks or watches	639,578	Dec. 19	2565	589	89	2406
John F. Brooks Company. (See Coult, Walter, assignor.)						
John Hope & Son's Engraving Company. (See Hope, John and John, Jr., assignors.)						
John, Hugo, Erfurt, Germany. Apparatus for punching holes in girders, &c	622,953	Apr. 11	1384	318	87	282
John, James, assignor of one-fourth to J. Hewitt, Chicago, Ill. Fireproof-building construction	621,680	Mar. 21	2114	471	86	1937
John, Joseph R., Mount Clemens, Mich. Combined foot-rest and child's seat	628,331	July 4	728	168	88	140
John Kroder & Henry Reubel Company. (See Perry, Frank, assignor.)						
John R. Williams Company. (See Dunn, John W., assignor.)						
John Smith & Sons. (See Leach, Walter, assignor.)						
John V. Rice, Junior, Company. (See Rice, John V., Jr., assignor.)						
Johns, Henry A., *et al.* (See Bready, Henry Y., assignor.)						
Johns, Will R., Rockford, Ill. Knitting-machine	621,681	Mar. 21	2118	471, 472	86	1938
Johnsen, John P., Chicago, Ill. Abacus	637,964	Nov. 28	3680	773	89	1753
Johnson, Adamantine, Jr. (See Hubbell, Edwin, assignor.)						
Johnson, Albert C., Baltimore, Md. Apparatus for making sulfuric acid	621,608	Mar. 21	1970	440	86	1907
Johnson, Albert E., Brockton, Mass., assignor to Economy Machine Company, Portland, Me. Insole slitting and channeling and lip-turning machine	638,394	Dec. 5	397	83, 84	89	1942
Johnson, Albert L., assignor to Metalloid Sidewalk Company, St. Louis, Mo. Concrete pavement	618,956	Feb. 7	292	63	86	868
Johnson, Albert L., assignor of one-half to D. E. Garrison, Sr., St. Louis, Mo. Fireproof-floor construction	633,285	Sept. 19	2048	481	88	2136
Johnson, Albert W. (See Bulley and Johnson.)						
Johnson, Albert W., Marseilles, assignor of one-half to H. M. Kelly, Ottawa, Ill. Scoop	622,234	Apr. 4	62	15	87	15
Johnson, Albin A. (See Burton, James L., assignor.)						
Johnson, Alexander G., New York, N. Y. Razor, &c	637,124	Nov. 14	1742	374	89	1295
Johnson, Alfred, Philadelphia, Pa. Tap	626,385	June 6	329	76	87	1677
Johnson, Alfred, Philadelphia, Pa. Bicycle seat-post	626,811	June 13	1089	245	87	1843
Johnson, Alfred, Minneapolis, Minn. Wheat-drier	630,892	Aug. 15	2177	494, 495	88	1186

Alphabetical list of patentees—Continued.

Name, residence, and invention.	No.	Date.	Monthly volume. Spec.	Monthly volume. Drg.	Official Gazette. Vol.	Official Gazette. Page.
Johnson, Alfred F. (See Johnson and Fry, assignors.)						
Johnson, Alfred W. (See Reeves and Johnson.)						
Johnson, Alva W. B., Mount Vernon, Ill. Self-weighing scale	624,338	May 2	723	160, 161	87	838
Johnson, Alva W. B., Mount Vernon, Ill. Self-weighing scale	634,756	Oct. 10	1449	340, 341	89	304
Johnson, Andrew, *et al.* (See Elgen, Magnus P., assignor.)						
Johnson, Andrew J. (See Smith and Johnson.)						
Johnson, Andrew J., Brainerd, Minn. Extension-table	637,391	Nov. 21	2261	487	89	1412
Johnson, Arthur, Ipswich, Mass. Time lamplighter	638,018	Nov. 28	3799	799	89	1776
Johnson, Arthur T., Traverse City, Mich. Sash-holder	617,339	Jan. 10	927	214	86	200
Johnson, Arthur T. M., London, England. Gas lamp or burner	629,296	July 18	2484	579	88	518
Johnson, August, assignor to Oil Fuel Saving Company, San Francisco, Cal. Heating-furnace	626,465	June 6	457	107, 108	87	1702
Johnson, August, assignor to Oil Fuel Saving Company, San Francisco, Cal. Oil-burner	633,761	Sept. 26	2939	682	88	2324
Johnson, Augustus, Falun, Kans. Band-cutter and feeder for threshing-machines and separators	631,934	Aug. 29	4074	915	88	1585
Johnson, Benjamin L. (See Day and Johnson.)						
Johnson, Benjamin T., Jr., Ada, W. Va. Reservoir-cover for vessels	619,313	Feb. 14	979	221	86	1021
Johnson, Bjarni J., assignor of one-half to T. Thorvaldson, Spanish Fork, Utah. Car-coupling	633,517	Sept. 19	2468	581	88	2218
Johnson, Charles, West Superior, Wis. Wrench	620,143	Feb. 28	2474	562	86	1348
Johnson, Charles, Chicago, Ill. Burglar-alarm	627,192	June 20	1800	395	87	2002
Johnson, Charles A., Unionville, Conn. Tool for cutting screw-threads	630,712	Aug. 8	1859	420	88	1097
Johnson, Charles F., Boston, assignor to A. F. Burdett, Dedham, Mass. Detachable sign-letter	630,458	Aug. 8	1420	317	88	1013
Johnson, Charles H., assignor to Johnson-Parfit Tool Company, Springfield, Ill. Portable pneumatic hammer	618,100	Jan. 24	2376	531	86	516
Johnson, Charles M., New York, N. Y. Driving-wheel for motor-vehicles	622,235	Apr. 4	63	15	87	16
Johnson, Charles M., New York, N. Y. Coal-mining machine	628,007	July 4	92	18, 19	88	20
Johnson, Charles M., New York, N. Y. Valve and valve-gearing for explosion-engines	630,057	Aug. 1	625	136, 137	88	847
Johnson, Chester F., Framingham, assignor to T. H. Blair, Northborough, Mass. Wrench	622,486	Apr. 4	539	127	87	102
Johnson, Chester P., assignor of two-thirds to W. G. Waldron and J. L. Voorhees, Amsterdam, N. Y. Button-drilling machine	624,216	May 2	494	106	87	794
Johnson, Claude M., Lexington, Ky. Wave and tide power	639,733	Dec. 26	2855	657, 658	89	2480
Johnson, Claude M., Lexington, Ky. Wave and tide power	639,734	Dec. 26	2858	658, 659	89	2481
Johnson, Claude M., Lexington, Ky. Tide-power air-compressor	639,735	Dec. 26	2861	659, 660	89	2482
Johnson Company. (See Brown, William M., assignor.)						
Johnson Company. (See Du Pont, Thomas C., assignor.)						
Johnson Company. (See Kress, Carl F., Jr., assignor.)						
Johnson Company. (See Stormer, Peter G., assignor.)						
Johnson, Edgar H., New York, N. Y., assignor of one-half to Farrel Foundry and Machine Company, Ansonia, Conn. Machine for making cable	624,817	May 9	1594	362, 363	87	1034
Johnson, Edmiston P., Decatur, Ill. Burglar-alarm	621,419	Mar. 21	1624	360	86	1842
Johnson, Edward C. (See Keeler, Thaddeus B., assignor.)						
Johnson, Edward H., Omaha, Nebr. Telephone-transmitter	623,908	Apr. 25	3165	729	87	664
Johnson, Edward T., San Francisco, Cal. Insufflator	634,982	Oct. 17	1847	438	89	400
Johnson, Eldridge R. (See Clark and Johnson.)						
Johnson, Eldridge R., Philadelphia, Pa. Sound recording and reproducing machine	634,944	Oct. 17	1763	419	89	382
Johnson Electric Service Company. (See Johnson, Warren S., assignor.)						
Johnson, Elese J., New York, N. Y. Fire-escape	637,339	Nov. 21	2168	467	89	1394
Johnson, Ernest V., Chicago, Ill. Fireproof-building construction	625,930	May 30	3605	819	87	1480
Johnson, Frank, Seattle, Wash. Bath-tub	621,920	Mar. 28	2576	580	86	2041
Johnson, Frank, Fredericksburg, Mo. Fodder-baler	627,234	June 20	1873	410	87	2016
Johnson, Frank, Fredericksburg, Mo. Shock-loader	630,779	Aug. 8	1970	445	88	1120
Johnson, Frank G., New York, N. Y. Centrifugal pulverizing-mill	626,426	June 6	387	91, 92, 93	87	1689
Johnson, Frank G., New York, N. Y. Pulverizing-mill	632,721	Sept. 12	985	228, 229	88	1916
Johnson, Frank R., W. Rubin, and G. Bradley, South Omaha, Nebr. Bail-ear	637,467	Nov. 21	2393	518	89	1439
Johnson, Frederick L., Wallingford, Conn. Whistle	620,037	Feb. 21	2280	517	86	1296
Johnson, Frederick L., assignor of one-half to G. W. Backes, Wallingford, Conn. Whistle	632,184	Aug. 29	4570	1029	88	1683
Johnson, George, Jersey City, N. J. Money-order-blank protector, cutter, and hand-rest	622,153	Mar. 28	3001	678	86	2125
Johnson, Greenleaf, Jr., Baltimore, Md. Machine for making tongue-and-groove flooring	617,023	Jan. 3	305	68, 69, 70, 71, 72	86	61
Johnson, Gustaf, *et al.* (See Berg, Theodore, assignor.)						
Johnson, Gustaf, Denver, Colo. Bicycle driving mechanism	619,421	Feb. 14	1163	262	86	1056
Johnson, Gustaf F., assignor of one-third to J. A. René, Superior, Wis. Shears	632,267	Sept. 5	107	23	88	1728
Johnson, Guy R., Embreville, Tenn. Cooling device for furnace-walls	633,849	Sept. 26	3086	717	88	2354
Johnson, H. S., *et al.* (See Bragg, Solomon A., assignor.)						
Johnson, Harry T. (See Dittmar, Allen A., assignor.)						
Johnson, Henry. (See Ford, Eliot E., assignor.)						
Johnson, Henry, Dudley, England. Lookout-glass for locomotives, &c	625,398	May 23	2629	597, 598	87	1273
Johnson, Henry, assignor to Standard Railroad Signal Company, Arlington, N. J. Joint for connecting sections of rods	637,000	Nov. 14	1494	321	89	1249
Johnson, Henry A., Hindsville, Ark. Water-conveyer	628,437	July 4	907	212	88	174
Johnson, Henry P., assignor of three-fourths to C. H. Jervey, S. H. McGhee, and T. B. Stackhouse, Dillon, S. C. Rolling platform	630,235	Aug. 1	934	203, 204	88	906
Johnson, Henry V., Denver, Colo. Link cuff-button	631,215	Aug. 15	2759	624	88	1299
Johnson, Hettie F. (See Johnson, William W. and H. F.)						
Johnson, Isaac N., Tipton, Ind. Sprayer	637,798	Nov. 28	3364	705	89	1689
Johnson, Isaac R., assignor of one-half to J. E. Garner, New York, N. Y. Bicycle-frame	634,823	Oct. 10	1554	365, 366	89	325
Johnson, J. C., *et al.* (See Levin, Rudolph L., assignor.)						
Johnson, Jahu W., Houston, Tex. Book type-writer	628,268	July 4	589	139, 140	88	114

Alphabetical list of patentees—Continued.

Name, residence, and invention.	No.	Date.	Monthly volume. Spec.	Monthly volume. Dr'g.	Official Gazette. Vol.	Official Gazette. Page.
Johnson, James H., assignor of one-half to W. R. Weeks, Newark, N. J. Elevator-car arrester with movable guide-strips	632,414	Sept. 5	364	83	88	1778
Johnson, James H., assignor of one-half to W. R. Weeks, Newark, N. J. Automatic safety-stop for elevators	632,415	Sept. 5	367	84	88	1778
Johnson, James H., assignor of one-half to W. R. Weeks, Newark, N. J. Automatic car safety device for electric elevators	632,651	Sept. 5	808	188	88	1867
Johnson, James H., and W. Fravel, Memphis, Mo. Flour-cabinet	618,682	Jan. 31	3463	773	86	737
Johnson, James R., Avoca, Iowa. Box-lid holder	633,200	Sept. 19	1879	442	88	2104
Johnson, James T., assignor of one-half to S. J. Druce, Pomona, Mich. Gate	619,576	Feb. 14	1412	325	86	1104
Johnson, James W., Chicago, Ill. Fire-alarm box	621,093	Mar. 14	1050	229	86	1716
Johnson, John C., Uniontown, Pa. Bag-filler	617,961	Jan. 17	2099	471	86	449
Johnson, John F. (See Borchgrevink, Henrick K., assignor.)						
Johnson, John W. (See Cadman and Johnson.)						
Johnson, Joseph E., Jr., Longdale, Va. Sand-shoveler	617,506	Jan. 10	1220	277	86	257
Johnson, Joseph E., Jr., Longdale, Va. Apparatus for liquefying gases	627,696	June 27	2768	606, 607	87	2209
Johnson, Joshua J., Elmview, Tex. Animal-trap	636,901	Nov. 14	1280	276	89	1207
Johnson, Lenard E. (See Hanson and Johnson.)						
Johnson, Louis F., Easton, Pa. Electric push-button	631,892	Aug. 29	4005	896	88	1572
Johnson, Louis K., and A. A. Low, assignors to Alden Type Machine Company, New York, N. Y. Type-setting apparatus	618,463	Jan. 31	3070	680	86	660
Johnson, Louis K., and A. A. Low, assignors to Alden Type Machine Company, New York, N. Y. Type-setting apparatus	625,931	May 30	3607	820	87	1480
Johnson, Louis K., and A. A. Low, assignors to Alden Type Machine Company, New York, N. Y. Type-containing channel	630,831	Aug. 8	2065	466	88	1140
Johnson, Louis C., and A. A. Low, assignors to Alden Type Machine Company, New York, N. Y. Type-setting apparatus	630,832	Aug. 8	2067	466, 467	88	1141
Johnson, Louis K., and A. A. Low, assignors to Alden Type Machine Company, New York, N. Y. Type-containing channel	634,214	Oct. 3	433	111	89	90
Johnson, Louis K., and A. A. Low, assignors to Alden Type Machine Company, New York, N. Y. Type-setting apparatus	639,244	Dec. 19	1943	448	89	2279
Johnson, Louis K., and A. A. Low, assignors to Alden Type Machine Company, New York, N. Y. Type-setting apparatus	639,245	Dec. 19	1946	448	89	2280
Johnson-Lundell Electric Company. (See Lundell, Robert, assignor.)						
Johnson, Magnus, South Cypress, Canada. Straw-stacker	631,935	Aug. 29	4081	915, 916	88	1586
Johnson, Manander M., Clay Centre, Nebr. Incubator or brooder tank	630,355	Aug. 8	1181	259	88	971
Johnson, Manander M., Clay Centre, Nebr. Folding brooder	639,055	Dec. 12	1588	364, 365	89	2195
Johnson Manufacturing Company. (See Johnson and Kirkscey, assignors.)						
Johnson, Marion L., Mears, Mich. Spraying apparatus	630,713	Aug. 8	1862	421	88	1098
Johnson, Marquis H., assignor of one-half to J. Campsall, Buffalo, N. Y. Voting-machine	624,818	May 9	1597	363, 364	87	1034
Johnson, Mary E. (See Ellstrom, Gustaf, assignor.)						
Johnson, Mitchel, Kansas City, Mo. Playing-card puzzle	618,942	Feb. 7	268	57	86	862
Johnson, Moses C., Hartford, Conn. Gear	618,272	Jan. 24	2703	600	86	575
Johnson, Moses C., Hartford, Conn. Bicycle	618,356	Jan. 24	2847	632	86	603
Johnson, Ole, Milwaukee, Wis. Apparatus for elevating, transporting, and discharging material	636,902	Nov. 14	1281	276, 277	89	1207
Johnson, Ole, Milwaukee, Wis. Apparatus for elevating, transporting, and discharging material	638,722	Dec. 12	1022	229, 230	89	2085
Johnson, Olof, Hibbing, Minn. Tympan-gage	638,124	Nov. 28	4013	845	89	1818
Johnson, Orion, Newton, Kans. Angle-iron attachment for wagon-bodies	626,236	June 6	38	9	87	1622
Johnson-Parfit Tool Company. (See Johnson, Charles H., assignor.)						
Johnson, Peter, Boston, Mass. Nicotin-extractor and smoke-cooler for tobacco-pipes	639,397	Dec. 19	2243	518	89	2341
Johnson, Ralph E., Lafayette, Ind. Curtain-fixture	623,162	Apr. 18	1801	412	87	379
Johnson, Reason P., Chicago, Ill., assignor to R. E. Logan, Rhodes, Iowa. Electric catheter	623,022	Apr. 11	1513	350	87	309
Johnson, Richard P., assignor to F. N. Tirrell, Boston, Mass. Manufacturing whiting	626,865	June 13	1222	270	87	1868
Johnson, Robert H., Montgomery, Ala. Cuspidor	637,799	Nov. 28	3366	705	89	1690
Johnson, Samuel W., Newport News, Va. Chair	633,087	Sept. 12	1625	378	88	2043
Johnson, Sieve T., Trinidad, Cal. Circular shingle-saw	622,954	Apr. 11	1386	319	87	283
Johnson, T. E. (See Felts, Oscar N., assignor.)						
Johnson, Thomas, St. Louis, Mo. Insect-exterminating apparatus	623,374	Apr. 18	2178	500	87	454
Johnson, Thomas A., and F. G. Kirkscey, assignors to Johnson Manufacturing Company, Tyler, Tex. Douche-board	621,252	Mar. 14	1329	295	86	1772
Johnson, Thomas C., assignor to Winchester Repeating Arms Company, New Haven, Conn. Cartridge-holding clip	626,068	May 30	3906	887	87	1535
Johnson, Thorwald, Chicago, Ill. Barrel-hoop former	634,172	Oct. 3	349	89, 90	89	72
Johnson, Vincent, Aspen, Colo. Snow or ice velocipede	618,037	Jan. 17	2241	499	86	475
Johnson, W. S., *et al.* (See Kaufman, Jacob H., assignor.)						
Johnson, Walter, *et al.* (See Fisher, James W., assignor.)						
Johnson, Walter C., and A. Wunderlich, London, England. Electric-arc lamp	638,125	Nov. 28	4014	845	89	1818
Johnson, Warren S., assignor to Johnson Electric Service Company, Milwaukee, Wis. Temperature-regulating apparatus	624,046	May 2	174	38	87	735
Johnson, Werner, Northampton, Mass. Voting-machine	631,721	Aug. 22	3702	830, 831, 832, 833	88	1502
Johnson, Wesley, Pittsburg, Pa. Velocipede	627,335	June 20	2068	456	87	2057
Johnson, William. (See Walker, Harry, assignor.)						
Johnson, William. (See Walker and Johnson.)						
Johnson, William, Boston, Mass. Centrifugal cream-separator	619,487	Feb. 14	1270	291	86	1077
Johnson, William H., New York, N. Y. Road-making machine	621,094	Mar. 14	1055	230	86	1717
Johnson, William H., assignor to C. A. Edgarton Manufacturing Company, Shirley, Mass. Suspender-end	623,721	Apr. 25	2786	637	87	590
Johnson, William H., Veedersburg, and S. D. Fry, Attica, assignors, by mesne assignments, of one-third to A. F. Johnson, Veedersburg, Ind. Fence-stay	621,496	Mar. 21	1775	395	86	1869
Johnson, William M. (See Kendrick, John L., assignor.)						
Johnson, William R., *et al.* (See Stauber, Joseph, assignor.)						
Johnson, William W. and H. F., Jamestown, Ohio. Changeable sign	625,681	May 23	3111	708	87	1367
Johnson, Willie H., Navasota, Tex. Compound engine	627,425	June 20	2261	500	87	2093
Johnsrud, Martin, Chicago, Ill. Centrifugal cream-separator	632,464	Sept. 5	462	104	88	1798
Johnsson, Axel A., Chicago, Ill. Pneumatic tire	633,848	Sept. 26	3084	716	88	2354
Johnston, Abner, assignor of two-thirds to G. B. Fielder, Jersey City, and G. R. Johnston, Etna, N. J. Cut-out plug	628,180	July 4	420	99	88	85

Alphabetical list of patentees—Continued.

Name, residence, and invention.	No.	Date.	Monthly volume. Spec.	Monthly volume. Dr'g.	Official Gazette. Vol.	Official Gazette. Page.
Johnston, Claes G. (See Nilson, Carl J., assignor.)						
Johnston, Edgar D., assignor to P. H. & F. M. Roots Company, Connersville, Ind. Rotary blower	624,943	May 16	1834	411	87	1096
Johnston, Edward A., Chicago, Ill. Device for tightening endless chains or belts	630,833	Aug. 8	2068	467	88	1141
Johnston, Edward A., Chicago, Ill. Mower	632,219	Aug. 29	4617	{1040 {1041	88	1691
Johnston, Edward A., Chicago, Ill., assignor to McCormick Harvesting Machine Company. Corn-harvester	624,942	May 16	1832	411	87	1096
Johnston, Edward A., assignor to I. Latzar and J. N. Danner, Chicago, Ill. Cigar cutter and lighter	632,416	Sept. 5	369	84	88	1779
Johnston, G. H., *et al.* (See Harvey, Isaac H., assignor.)						
Johnston, George R., *et al.* (See Johnston, Abner, assignor.)						
Johnston Harvester Company. (See Maul, Christian, assignor.)						
Johnston Harvester Company. (See Pridmore, Edward, assignor.)						
Johnston, J. W., *et al.* (See Harvey, Isaac H., assignor.)						
Johnston, James S., Utica, N. Y. Cloth-drying apparatus	625,169	May 16	2217	502	87	1168
Johnston, John. (See Potter and Johnston.)						
Johnston, John S., assignor to Pottier & Stymus Company, New York, N. Y. Car-seat	625,885	May 30	3526	801	87	1465
Johnston, John S., assignor to Pottier & Stymus Company, New York, N. Y. Ball-bearing car-seat	629,258	July 18	2425	562	88	506
Johnston, John S., assignor to Pottier & Stymus Company, New York, N. Y. Car-seat	639,923	Dec. 26	3204	735	89	2551
Johnston, Mary W., *et al.* (See Woodruff, Thomas S., assignor.)						
Johnston, Robert, Wilkes-Barré, Pa. Tire-repairing tool	636,903	Nov 14	1287	{277 {278	89	1208
Johnston, Samuel J., Leesburg, Va. Sash-fastener	631,014	Aug. 15	2404	545	88	1229
Johnston, Saville, Boston, Mass. Implement for unstopping bottles	631,872	Aug. 29	3977	889	88	1567
Johnston, Thomas J., Schenectady, N. Y., assignor to General Electric Company, of New York. Circuit-breaker	620,930	Mar. 14	730	161	86	1656
Johnston, Thomas J., and A. H. Abell, Schenectady, N. Y., assignors to General Electric Company, of New York. Motor-truck	630,356	Aug. 8	1182	260	88	971
Johnston, Thomas O., *et al.* (See Raby, Richard, assignor.)						
Johnston, William, Ellsworth, Wis. Neck-yoke	619,488	Feb. 14	1272	291	86	1078
Johnston, William F., and W. J. Clokey, assignors to Massey-Harris Company, Toronto, Canada. Disk harrow	630,981	Aug. 15	2348	535	88	1218
Johnston, William G., assignor to himself and R. S. Clymer, Woodbury, N. J. Printing-press	621,682	Mar. 21	2121	472	86	1938
Johnston, William R., *et al.* (See Trabue, William, assignor.)						
Johnstone, Edward, and E. S. Ross, Hobart, Tasmania. Window-sash fastening	618,273	Jan. 24	2704	600	86	576
Johnstone, Gilbert L., New York, N. Y. Lock bottom and top collapsible box	636,806	Nov. 14	1105	237	89	1172
Johnstone, Gilbert L., New York, N. Y., and C. Lederer, Montclair, N. J. Knockdown or collapsible box	619,757	Feb. 21	1763	404	86	1197
Johnstone, Robert L., Glen Ridge, N. J. Repair-tool	617,398	Jan. 10	1042	237	86	222
Joiner, Thomas H. (See Goff and Joiner.)						
Joines, James J. (See Seward and Joines.)						
Joisten, Albert, Cologne, Germany. Platen printing-press	636,340	Nov. 7	184	41	89	958
Jolliff, Jonathan E., Catawba, W. Va. Permutation-padlock	621,095	Mar. 14	1057	230	86	1718
Jolliffe, Morgan, Uniontown, Pa. Grip for coal-cars	636,904	Nov. 14	1289	278	89	1209
Jones, Albert F., Salem, Mass., assignor to Vaughn Machine Company, Portland, Me. Leather-coloring machine	621,457	Mar. 21	1704	{377 {378	86	1857
Jones, Albert I., Hancock, Mich. Ore or coal washer	624,499	May 9	1020	230	87	918
Jones, Alfred A. (See Jackson, Walter, assignor.)						
Jones, Andrew, and H. Harig, Cincinnati, Ohio. Window frame and sash and door-casing	624,944	May 16	1835	412	87	1096
Jones, Arthur, assignor of one-half to J. P. Dommersnas, Chicago, Ill. Scroll-saw	617,440	Jan. 10	1120	256	86	236
Jones, Arthur L., Montgomery, Ala. Humidifier	632,185	Aug. 29	4571	1029	88	1683
Jones, Arthur L., Montgomery, Ala. Spraying device	632,186	Aug. 29	4573	1030	88	1683
Jones Brothers & Co. (See Scott, Dugald, assignor.)						
Jones, Charles B., assignor of one-half to F. L. Cowles, New Haven, Conn. Reclining-perambulator	626,025	May 30	3835	870	87	1523
Jones, Charles B., assignor of one-half to F. L. Cowles, New Haven, Conn. Reclining-perambulator	628,983	July 18	1936	{451 {452	88	414
Jones, Charles F., Blanchett, Ky. Shade-roller	633,009	Sept. 12	1496	348	88	2017
Jones, Charles M., and A. L. Harvey, Baxter Springs, Kans. Medicament-carrier	634,354	Oct. 3	739	176	89	148
Jones, Charles W., Otsego, Mich. Lifting device for sick persons	618,274	Jan. 24	2705	600	86	576
Jones, Charles W., North Temescal, assignor of one-half to M. M. Martin, Oakland, Cal. Electrical heater	619,314	Feb. 14	980	221	86	1021
Jones, Corry, New York, N. Y. Winding-frame	623,404	Apr. 18	2228	510	87	465
Jones, Daniel A., Oshkosh, Wis. Pole-climber	626,542	June 6	592	136	87	1729
Jones, David P., Chicago, Ill. Steam-boiler	634,299	Oct. 3	616	151	89	124
Jones, Dudley E., Little Rock, Ark. Pneumatic cotton-handling apparatus	633,670	Nov. 7	797	177	89	1083
Jones, Edgar R., assignor of one-half to E. H. L. Thompson, Kansas City, Mo. Tag, box, or sign stamp	628,147	July 4	355	84	88	72
Jones, Edgar R., assignor of one-half to E. H. L. Thompson, Kansas City, Mo. Clothes-line fastener and holder	637,392	Nov. 21	2262	487	89	1413
Jones, Edward A. (See Barnes, Charles O., assignor.)						
Jones, Elzie E., Missouri Valley, Iowa. Ice-cutting machine	629,964	Aug. 1	443	95	88	810
Jones, Ernest H., London, England. Vise	626,427	June 6	394	93	87	1690
Jones, Ernest H., and G. W. Tarver, London, England. Handle-bar for bicycles	624,657	May 9	1298	289	87	974
Jones, Everett R., Milan, Kans. Combination-tool	638,871	Dec. 12	1274	289	89	2133
Jones, Frederick, Santa Paula, Cal. Horizontal steam-boiler	621,420	Mar. 21	1624	361	86	1842
Jones, Frederick V., and L. C. Myers, assignors to Century Machine Company, New York, N. Y. Type for type-writing machines	637,340	Nov. 21	2169	467	89	1394
Jones, Frederick W., Barwick, England. Making explosives	625,682	May 23	3112	------	87	1367
Jones, Frederick W., assignor of one-tenth to E. W. Thurgar, London, England. Wheel for cycles or other vehicles	632,574	Sept. 5	672	155	88	1839
Jones, George A., Richmond, Va. Folding crate	634,733	Oct. 10	1411	333	89	298
Jones, George B. (See Cooley, Herbert M., assignor.)						
Jones, George W., Dunlap, Iowa. Grindstone	628,715	July 11	1452	337	88	302
Jones, George W., Bibb, Tex. Pan or lid lifter	632,352	Sept. 5	256	61	88	1757
Jones, Gerald T. (See Girod, Edgar, assignor.)						
Jones, Gomer P., assignor to M. D. Stebbins, Springfield, Mass. Divided crank-axle	620,075	Feb. 21	2343	531	86	1308
Jones, Graham P., Chicago, Ill. Car-door	623,282	Apr. 18	2013	463	87	422
Jones, Graham P., Chicago, Ill. Car-door	623,283	Apr. 18	2014	463	87	422
Jones, Harrison C., *et al.* (See Bragg, Solomon A., assignor.)						
Jones, Harvey P., Chicago, Ill. Binder-frame	620,455	Feb. 28	3003	687	86	1448
Jones, Harvey P., Chicago, Ill. Binder-frame	620,456	Feb. 28	3005	687	86	1448

Alphabetical list of patentees—Continued.

Name, residence, and invention.	No.	Date.	Monthly volume.		Official Gazette.	
			Spec.	Dr'g.	Vol.	Page.
Jones, Heher, *et al.* (See Newsom, Joseph N., assignor.)						
Jones, Henry, Philadelphia, Pa. Sound recording and reproducing machine	628,810	July 11	1630	376	88	339
Jones, Henry, Philadelphia, Pa. Sound recording and reproducing machine	628,811	July 11	1633	377	88	339
Jones, Henry, Philadelphia, Pa. Sound recording and reproducing machine	628,812	July 11	1635	377	88	340
Jones, Henry, Philadelphia, Pa. Sound recording and reproducing machine	628,813	July 11	1636	377	88	340
Jones, Henry C., assignor of one-third to F. S. Lee, Cincinnati, Ohio. Vehicle-axle	636,807	Nov. 14	1107	237	89	1172
Jones, Herbert C., assignor of one-half to R. Deimel, Chicago, Ill. Upholstering-machine	635,046	Oct. 17	1956	463 464	89	422
Jones Hollow Ware Company. (See Russell, Leona M., assignor.)						
Jones, Horace K., Hartford, assignor to Russell & Erwin Manufacturing Company, New Britain, Conn. Machine for separating chips or shavings from screws, &c	628,665	July 11	1370	320	88	285
Jones, Horace K., Hartford, assignor to Russell & Erwin Manufacturing Company, New Britain, Conn. Machine for heading knobs	628,666	July 11	1372	320 321	88	285
Jones, Horace M. (See Test and Jones.)						
Jones, Howard F., Wilson, N. C. Electric heat-alarm	625,843	May 30	3440	781	87	1448
Jones, Hugh H., *et al.* (See Behrer, Lewis J., assignor.)						
Jones, James, Atlantic, Iowa. Draft-equalizer	631,850	Aug. 29	3940	881	88	1560
Jones, James R., Waterford, Mich. Wire-and-picket-fence machine	616,930	Jan. 3	124	28	86	26
Jones, Job E., Forhush, Iowa. Means for protecting car doors and sides	621,344	Mar. 21	1504	334	86	1819
Jones, John, East Melbourne, Victoria. Recovering zinc from refractory zinc-hearing ores	639,579	Dec. 19	2567	589	89	2406
Jones, John A., Cincinnati, Ohio. Conductor's recording-punch	622,236	Apr. 4	64	15,16	87	16
Jones, John J., Philadelphia, Pa. Yielding support for pens	616,931	Jan. 3	126	28	86	26
Jones, John M., Palmyra, N. Y. Printing-press	619,828	Feh. 21	1903	434	86	1224
Jones, John M., Heyworth, Ill. Wing-support for bridges	624,339	May 2	725	161	87	839
Jones, John M., Sedalia, Mo. Railway-car	639,580	Dec. 19	2569	589 590	89	2406
Jones, John R., Oshkosh, Wis. Extension-ladder	623,476	Apr. 18	2353	541	87	491
Jones, Joshua J., Pittsburg, Pa. Draft-rigging	618,417	Jan. 31	2999	664	86	648
Jones, Joshua W., Harrishurg, assignor to Union Switch and Signal Company, Swissvale, Pa. Railway-signal	617,507	Jan. 10	1222	278	86	258
Jones & Lamson Machine Company. (See Chase, Charles F., assignor.)						
Jones, Levin T., Jr., San Francisco, Cal. Electric log-recorder	637,992	Nov. 28	3733	785	89	1764
Jones, Lilian B., Denver, Colo. Ruler	639,814	Dec. 26	3018	695	89	2513
Jones, Lillie J., Flint, Mich. Skirt-supporter	625,558	May 23	2913	661	87	1328
Jones, M. H. (See Rice, Franklin H., assignor.)						
Jones, Marshall, Boston, Mass. Apparatus for raising sunken vessels	630,542	Aug. 8	1575	351	88	1043
Jones, Martin H., Nogales, Ariz. Ter. Holder for tickets	639,056	Dec. 12	1589	365	89	2195
Jones, Nathaniel M. (See Jones, William H., assignor.)						
Jones, Palmer A. (See Moulton and Jones.)						
Jones, Richard W., Syracuse, N. Y. Snap-hook	622,770	Apr. 11	1056	245	87	220
Jones, Samuel H., assignor of two-thirds to W. M. Finn, Scranton, and J. B. Shannon, Carhondale, Pa. Knife	634,621	Oct. 10	1208	286	89	257
Jones, Samuel L., Philadelphia, assignor of one-half to J. T. Morris, Pittshurg, Pa. Oil-supply system for hurners	631,077	Aug. 15	2532	574	88	1254
Jones, Samuel O., assignor of one-half to G. H. Atwood, Stillwater, Minn. Luhricating device	629,369	July 25	2638	612	88	569
Jones, Seth C., and W. Mayo, assignors to E. R. Andrews, Rochester, N. Y. Tripod-stand	621,571	Mar. 21	1909	427	86	1895
Jones, Seth C., and W. Mayo, assignors to E. R. Andrews, Rochester, N. Y. Tripod-stand	624,340	May 2	726	161	87	839
Jones, Sidney H. A., Fairfield, New South Wales. Self-acting luhricator	621,096	Mar. 14	1058	230	86	1718
Jones, Stephen, trustee. (See Flower, Thomas M., assignor.)						
Jones, Thomas, London, England. Draft attachment for vehicles	625,773	May 30	3302	749	87	1422
Jones, Thomas R., Sacramento, Cal. Street-sweeper	622,487	Apr. 4	541	127	87	102
Jones, Thomas R., Wilkes-Barré, Pa. Lamp-bracket for miners' caps	629,692	July 25	3231	752	88	684
Jones, Thomas S., assignor of one-half to J. J. Stewart, Prince Alhert, Canada. Measuring device	624,819	May 9	1607	365	87	1036
Jones, Warren S., New Brunswick, N. J. Ice-creeper for horseshoes	631,544	Aug. 22	3379	766	88	1441
Jones, William. (See Burson, John E., assignor.)						
Jones, William A., Buffalo, N. Y. Lock for temporary hinders	635,438	Oct. 24	2754	630	89	592
Jones, William C., Lynn, Mass. Vehicle-wheel	626,428	June 6	395	93,94	87	1691
Jones, William H., Holly, Mich. Fence-machine	638,968	Dec. 12	1443	329	89	2168
Jones, William H., assignor of one-half to N. M. Jones, Cambridge, Mass. Still	627,120	June 20	1682	368	87	1978
Jones, William S. (See Husted and Jones.)						
Jones, William T., Thames Ditton, and J. Eaton-Shore, Rughy, England. Multiple tool-holder	631,893	Aug. 29	4006	896	88	1572
Jones, Wylie B., *et al.* (See Vierengel, Matthew, assignor.)						
Jonker, Lucas, Amsterdam, Netherlands. Automatic water-measuring apparatus	621,820	Mar. 28	2385	533	86	2003
Jonsrud, Rohert, Sandy, Oreg. Cahle-grip	621,345	Mar. 21	1507	334	86	1819
Jonte, Peter N., Cincinnati, Ohio. Steam shovel or excavator	633,850	Sept. 26	3087	717	88	2354
Jopson, George W., Meriden, Conn. Folding corkscrew, screw-driver, &c	636,531	Nov. 7	534	117	89	1029
Jordan, Edward, assignor of one-half to G. T. Rogers, Sydney, New South Wales. Rotary molding-machine for shaping metal sheets	636,341	Nov. 7	185	41	89	958
Jordan, Edwin C., Jordan Springs, Va. Mail-hag	639,581	Dec. 19	2570	590	89	2406
Jordan, Franklin E., Chicago, Ill. Can-jacket	622,806	Apr. 11	1116	259	87	231
Jordan, George W., Worcester, Mass., assignor to Knowlton & Beach, Rochester, N. Y. Machine for scoring cardhoard	621,965	Mar. 28	2669	600 601	86	2058
Jordan, Harry F., assignor of one-half to A. L. Bentley, Chicago, Ill. Program-clock	637,341	Nov. 21	2172	467	89	1394
Jordan, Henry C., *et al.* (See Croshy, Charles E., assignor.)						
Jordan, Henry C., *et al.* (See Vansickle, Alexander A., assignor.)						
Jordan, John D., Eureka Springs, Ark. File-hox	633,459	Sept. 19	2378	560	88	2200
Jordan, John J., and C. Thiele, Kyle, Tex. Hydrocarhon-burner	630,893	Aug. 15	2179	495	88	1186
Jordan, Jonathan A. (See Alhertson, Sarah A., assignor.)						
Jordan, William B. M. (See Bogart, Adrian L., assignor.)						
Jordan, William T. (See Blacknall and Jordan.)						
Jordan, William W., assignor of one-half to H. J. Sharp, Hopkinsville, Ky. Dust-proof watchcase	626,703	June 13	893	203	87	1806
Jordon, John J., and C. L. Wallace, Kyle, Tex. Plumb-level	635,782	Oct. 31	3386	782	89	729
Jorgensen, Herman J. M. (See Thomsen and Jorgensen.)						
Jorgenson, John, San Francisco, Cal. Railway-signal	623,671	Apr. 25	2706	620	87	576
Jorgenson, John, San Francisco, Cal. Railway-signal	623,672	Apr. 25	2707	621	87	576
Jorgenson, John, San Francisco, Cal. Nut-locking device	631,506	Aug. 22	3307	751	88	1425
Jorgeson, Frederick C., Chicago, Ill. Show-case construction	633,345	Sept. 19	2176	510	88	2162
Jory, Joseph H, San Francisco, Cal. Electrolytic reducing and amalgamating sluice	617,024	Jan. 3	309	72	86	62
Josef, Edward E., Buffalo, N. Y. Bicycle-support	633,010	Sept. 12	1497	348	88	2017
Josefkowicz, John, assignor to P. Bukolt, Buchanan, Mich. Self-rocking cradle	630,894	Aug. 15	2181	495 496	88	1186

Alphabetical list of patentees—Continued.

Name, residence, and invention.	No.	Date.	Monthly volume. Spec.	Monthly volume. Dr'g.	Official Gazette. Vol.	Official Gazette. Page.
Josefkowicz, John, assignor to P. Bukolt, Stevens Point, Wis. Spring-motor	630,895	Aug. 15	2184	496	88	1187
Joseph, Sheldon, Pataskala, Ohio. Street-car fender	618,228	Jan. 24	2625	580	86	561
Josephs, Adolf, Scranton, assignor of two-fifths to M. Rosenbluth, Wilkes-Barré, Pa. Ironing-table	628,332	July 4	729	168	88	140
Josephson, Adalbert, New York, N. Y. Folding box	620,711	Mar. 7	322	66	86	1564
Josephy, Gustav, assignor to G. Josephy's Erben, Bielitz, Austria-Hungary. Machine for shearing margins of cloth	621,304	Mar. 14	1426	315	86	1790
Josephy's Erben, G. (See Josephy, Gustav, assignor.)						
Joslin, Edward, *et al.* (See Fournier, Joseph H., assignor.)						
Joslin, Frank M., assignor of one-half to H. A. Inman, Amsterdam, N. Y. Button-drilling machine	628,097	July 4	263	62, 63	88	52
Joslin, Omar T., New York, N. Y., assignor of one-half to Black & Clawson Company, Hamilton, Ohio. Evaporating device	626,759	June 13	985	223	87	1823
Joslin, William O. (See Miller and Joslin.)						
Joss, Frederick A., *et al.* (See Joss, Harold M., assignor.)						
Joss, Harold M., assignor of two-thirds to J. S. Shortle, Chicago, Ill., and F. A. Joss, Indianapolis, Ind. Head-rest	617,025	Jan. 3	312	73	86	62
Josserand, Albert. (See Romeyer and Josserand.)						
Josserand, Peter, Josserand, Tex. Acetylene-gas lamp	634,757	Oct. 10	1450	341	89	304
Joubert, Joseph, Doizieu, France, assignor to Machine-Factory Rüti, formerly Caspar Honegger, Rüti, Switzerland. Machine for drawing in warp-threads	622,154	Mar. 28	3003	679	86	2125
Joy, Calvin L., Lowell, Mass., assignor to Draper Company, Portland, Me., and Hopedale, Mass. Thread-parter for looms	630,236	Aug. 1	935	204	88	907
Joy, David, London, England. Valve-gear	620,780	Mar. 7	453	93, 94	86	1590
Joy, Louis E. (See Altschwager and Joy.)						
Joy, Robert, San Francisco, Cal. Card holder and ejector	622,807	Apr. 11	1117	260	87	231
Joyce, James, Bellevue, Ky. Sash-fastener	632,187	Aug. 29	4574	{1030 {1031	88	1683
Joyce, John. (See Murphy, Edward E., assignor.)						
Joyce, John, trustee. (See Deuther, James A., assignor.)						
Joyce, Peter A., *et al.* (See Balwick, Louis H., assignor.)						
Judd, Leland & Stevens. (See Judd, William A., assignor.)						
Judd, Wallace S. (See Avery & Judd.)						
Judd, William A., assignor to Judd, Leland & Stevens, Clifton Springs, N. Y. Spraying device	619,257	Feb. 7	865	189	86	981
Judge, Joseph H., Milwaukee, Wis. Vehicle-wheel	635,687	Oct. 24	3191	735	89	677
Judson L. Thomson Manufacturing Company. (See Bartel, William P., assignor.)						
Judson, Louis, Chicago, Ill. Reaming attachment for bits	631,572	Aug. 22	3439	777	88	1452
Judson, William H., *et al.* (See Mitchell, Frank H., assignor.)						
Judy, Eddie, Job, W. Va. Spike-puller	636,808	Nov. 14	1109	237	89	1172
Judy, Harper, Circleville, W. Va., assignor to R. I. Digges, La Plata, Md. Nail-extractor	636,147	Oct. 31	4114	941	89	872
Juengst, Charles A., Croton Falls, N. Y. Metal-planer	617,532	Jan. 10	1281	290	86	269
Juhl, Peter E. T. (See Eickhoff and Juhl.)						
Julian, Gideon, Boston, assignor to C. F. Brown, trustee, Reading, Mass. Inseam-trimming machine	623,313	Apr. 18	2067	474	87	432
Julien, Jules, Brussels, Belgium. Electrode for secondary batteries	625,683	May 23	3114	708	87	1367
Julier, Camilla, assignor of two-thirds to M. E. Swope and W. J. Borrey, Greenfield, Ind. Device for beating eggs, &c	628,471	July 11	977	226	88	209
Julius, Paul. (See Bernthsen and Julius.)						
Julius, Paul, assignor to Badische Anilin and Soda Fabrik, Ludwigshafen, Germany. Brown azo dye	628,814	July 11	1638	------	88	341
Julius, Paul, Ludwigshafen, Germany, and G. E. Darier, Geneva, Switzerland, assignors to Badische Anilin and Sod Fabrik, Ludwigshafen, Germany. Phosphin dye and making same	617,340	Jan. 10	929	------	86	200
Julius, Paul, and A. Tkatsch, assignors to Badische Anilin and Soda Fabrik, Ludwigshafen, Germany. Making yellow phosphin dye	619,577	Feb. 14	1414	------	86	1104
Julius, Paul, and R. Laiblin, assignors to Badische Anilin and Soda Fabrik, Ludwigshafen, Germany. Dyeing wool fast black	634,824	Oct. 10	1555	------	89	325
Junca, Joseph M., and D. P. J. Burguieres, Louisa, La. Sugar-cane scraper	631,722	Aug. 22	3710	833	88	1504
Jung, Firm of R. (See Löw, Wilhelm, assignor.)						
Jungbauer, Joseph, St. Paul, Minn. Cuff-holder	630,237	Aug. 1	937	204	88	907
Junghans, Arthur, Schramberg, Germany. Repeating alarm-clock	618,176	Jan. 24	2543	562	86	545
Junod, André, Auberson, Switzerland. Device for tripping vibrating tongues of mechanical music-boxes	629,259	July 18	2426	562	88	507
Jürgens, Julius F. C., Altona, Germany. Gas-cock having igniting-tube	627,121	June 20	1684	368	87	1978
Jurgschat, Friedrich W., Hufen, Germany. Life-preserver	637,872	Nov. 28	3521	736	89	1721
Juruick, Maximillian F., Cresskill, N. J. Photographic shutter	639,993	Dec. 26	3338	764	89	2577
Just, Paul C., assignor of one-half to J. M. Roach, Chicago, Ill. Ornamental fountain	620,592	Mar. 7	73	14, 15	86	1517
Just, Thomas W., assignor to M. J. Alsbau, New York, N. Y. Torpedo	638,463	Dec. 5	536	110	89	1969
Just, Thomas W., assignor to M. J. Alsbau, New York, N. Y. Gun	638,464	Dec. 5	539	110	89	1970
Justi, Henry D., Philadelphia, Pa. Artificial tooth	638,019	Nov. 28	3801	799	89	1777
Justice, Alfred R. (See Doolittle, Elbridge C., assignor.)						
Justice, Alfred R. (See Doolittle, James B., assignor.)						
Justice, Zoro K. (See Barnett and Justice.)						
Justin, Joel G., Syracuse, N. Y. Electric-railway system	631,015	Aug. 15	2406	546	88	1229
K. Oehler, Anilin and Anilin Farben-Fabrik. (See Herbabny, Julius, assignor.)						
Kabisch, Carl F. (See Garcia, Raphael B., assignor.)						
Kabisch, Robert E., Lebanon, Pa. Beer-tap	639,582	Dec. 19	2571	590	89	2407
Kabus, Robert, New York, N. Y. Guard or clip for eyeglasses	634,758	Oct. 10	1452	341	89	305
Kaczander, Leopold, assignor to Nathan Manufacturing Company, New York, N. Y. Lubricating apparatus	626,166	May 30	4129	941	87	1576
Kaczander, Leopold, assignor to Nathan Manufacturing Company, New York, N. Y. Lubricator	637,001	Nov. 14	1495	322	89	1249
Kaczander, Leopold, New York, and R. Ruddy, Mount Vernon, assignors to Nathan Manufacturing Company, New York, N. Y. Lubricator	619,962	Feb. 21	2144	486	86	1270
Kaczander, Leopold, J. Desmond, New York, and R. Ruddy, Mount Vernon, N. Y., assignors to Nathan Manufacturing Company, of New York. Lubricator	636,532	Nov. 7	535	117	89	1029
Kade, Charles F., assignor to K. F. Winter and I. F. Kade, Sheboygan, Wis. Folding table	633,762	Sept. 26	2941	682	88	2324
Kade, Isabella F., *et al.* (See Kade, Charles F., assignor.)						
Kaefer, Mathias, Chicago, Ill. Bottle washing brush	630,609	Aug. 8	1688	380	88	1065
Kaeferle, Fritz, Hanover, Germany. Apparatus for mixing cold and hot water	623,909	Apr. 25	3166	730	87	664
Kaes, Richard, Vienna, Austria-Hungary. Protective device for incandescent electric lamps	619,829	Feb. 21	1904	{434 {435	86	1225
Kaffenberger, Charles T., Yonkers, assignor to himself, and E. M. Loftus, New York, N. Y. Lap-robe	639,176	Dec. 12	1795	416	89	2237

Alphabetical list of patentees—Continued.

Name, residence, and invention.	No.	Date.	Monthly volume. Spec.	Monthly volume. Dr'g.	Official Gazette. Vol.	Official Gazette. Page.
Kagarier, Samuel R., Salemville, Pa. Animal-trap	639,246	Dec. 19	1947	449	89	2280
Kahellek, Peter, Breckenridge, Minn. Rotary engine	634,002	Oct. 3	41	12	89	12
Kahle, Gottlieb, *et al.* (See Benseler, Heinrich, assignor.)						
Kahlenberg, Ernst L. K. F., Berlin, Germany, assignor to Siemens & Halske Electric Company of America, Chicago, Ill. Multiphase-current transformer	620,144	Feb. 28	2475	562	86	1348
Kahler, Ferdinand. (See Seymour and Kahler.)						
Kähler, Hinrich, Hamburg, Germany. Apparatus for indicating direction of rotation of motors	637,873	Nov. 28	3521	737	89	1722
Kahn, Adolph, Washington, D. C. Eyeglasses or spectacles	619,578	Feb. 14	1415	325	86	1104
Kahn & Bros., F. & L. (See Moore, Harry V., assignor.)						
Kahn & Bros., F. & L. (See Van Wie, Peter G., assignor.)						
Kahn & Bros., F. & L. (See Van Wie and Kahn, assignors.)						
Kahn, Lazard. (See Van Wie and Kahn.)						
Kahn, Maximilian. (See Esmond, William V., assignor.)						
Kahnweiler, Sidney B., New York, N. Y. Bath-bag	618,943	Feb. 7	270	57	86	862
Kahrs, John H., Weehawken, N. J. Lamp-burner	620,457	Feb. 28	3006	688	86	1448
Kail, Jackson L. (See Winslow and Kail.)						
Kail, Jackson L., assignor to Winslow Brothers' Company, Chicago, Ill. Library-shelving	618,510	Jan. 31	3166	699	86	678
Kail, Jackson L., assignor to Winslow Brothers' Company, Chicago, Ill. Library-shelving	618,511	Jan. 31	3167	699	86	678
Kailor, John N. (See Reeves and Kailor.)						
Kailor, John N. (See Reeves, Kailor, and Clay.)						
Kaiser, Jacob. (See Olson, Kaiser, and Knivel.)						
Kaiser, Johannes, assignor to H. Hencke, Berlin, and A. Schietrumpf, Gena, Germany. Manufacturing materials similar to wood from fibrous refuse	625,450	May 23	2728	------	87	1291
Kaiser, John B., assignor of one-half to J. A. Bernardi and G. E. Dunsford, Salem, Oreg. Reamer attachment for pipe-threaders	621,305	Mar. 14	1427	316	86	1791
Kaiser, Joseph W., *et al.* (See Krause, Hugo C., assignor)						
Kalamaikowski, Stanislaus, assignor of one-tenth to J. Heilmann, New York, N. Y. Fire-proof paint	619,579	Feb. 14	1416	------	86	1104
Kalamazoo Cycle Company. (See Blood, Maurice E. and C. C., assignors.)						
Kalamazoo Sled Company. (See Kidder, William E., assignor.)						
Kalamazoo Spring and Axle Company. (See Landon, A Archer, assignor.)						
Kall, Arnold G., assignor of two-thirds to H. Jahr and J. Leschinger, Watertown, Wis. Fly-screen attachment	638,395	Dec. 5	402	84	89	1943
Kalle & Co. (See Elbel and Oppermann, assignors.)						
Kallmerten, Arnold. (See Williams and Grueninger, assignors.)						
Kalte, John, Port Elgin, Canada. Trolley-wheel	628,539	July 11	1110	259	88	234
Kaltwasser, Oskar. (See Priebs and Kaltwasser.)						
Kamm, Fridolin B., Pleasant Gap, Mo. Weather-strip for doors	622,488	Apr. 4	543	127	87	103
Kammann Electric Company. (See Kammann, William T., assignor.)						
Kammann, William T., assignor to Kammann Electric Company, Minneapolis, Minn. Power-transmission device	618,101	Jan. 24	2378	531	86	516
Kammerer, Mary. (See Oppal, Emma T., assignor.)						
Kammerer, Paul R. (See Sonneborn and Kammerer.)						
Kampfe, Frederick, R., and O., New York, N. Y. Safety-razor	637,511	Nov. 21	2469	536	89	1453
Kampfe, Frederick, R., and O., New York, N. Y. Safety-razor	637,512	Nov. 21	2472	536	89	1453
Kampfe, Frederick, R., and O., New York, N. Y. Box for safety-razors	638,126	Nov. 28	4016	846	89	1819
Kampfe, Otto. (See Kampfe, Frederick, R., and O.)						
Kampfe, Richard. (See Kampfe, Frederick, R., and O.)						
Kamsler, Henry. (See Gottschall and Kamsler.)						
Kanaly, Morris E., Somerville, assignor to M. E. Kanaly Company, Cambridge, Mass. Sliding-door fastening	630,610	Aug. 8	1689	380	88	1066
Kane, Frank, assignor of one-fourth to H. E. Lawrence, Philadelphia, Pa. Belt-fastener	639,994	Dec. 26	3341	764	89	2578
Kane, John, Jay, N. Y. Barrel-head	620,038	Feb. 21	2281	517	86	1296
Kane, Maurice, Austin, Ill. Mowing-machine	628,248	July 4	548	132	88	108
Kane, Maurice, Austin, Ill. Clutch	628,249	July 4	550	132	88	108
Kane, Thomas F. (See Opper, Frederick C., assignor.)						
Kane, William, Philadelphia, Pa. Steam and hot-water boiler	620,931	Mar. 14	732	162	86	1657
Kane, William, Philadelphia, Pa. Valve device	620,932	Mar. 14	734	162	86	1657
Kanitz, Conrad, Melkof, Germany. Apparatus for damping envelops or the like	622,654	Apr. 4	858	196, 197	87	163
Kann, William L., Pittsburg, Pa. Apparatus for grinding and polishing	623,788	Apr. 25	2942	672	87	621
Kantner, Washington C., Reading, Pa. Eyeglass-holder	629,035	July 18	2028	473	88	432
Kanzee, Austin. (See Hewson, Robert B., assignor.)						
Karavodine, Victor, Paris, France. Boiler	628,984	July 18	1937	452	88	414
Karavodine, Victor, Paris, France. Rotative motor	633,138	Sept. 19	1766	417	88	2080
Karns, William E., Parker's Landing, Pa. Piston packing-ring	629,693	July 25	3232	752	88	684
Karoly, Charles S., Aurora, Ill. Automatic telephone-switch	621,346	Mar. 21	1508	335	86	1820
Karpen & Brothers, S. (See Weyer, Theodore G., assignor.)						
Karpen, Solomon, Chicago, Ill. Sofa-bed	632,053	Aug. 29	4301	966, 967	88	1629
Karpenstein, Henry C., New York, N. Y. Fire-escape	638,465	Dec. 5	541	111	89	1971
Karr, Benjamin. (See Karr, Francis, assignor.)						
Karr, Francis. (See Brouyette, Charles D., assignor.)						
Karr, Francis, Holland, Mich., assignor to B. Karr, Cleveland, Ohio. Spring bed-bottom	624,341	May 2	728	162	87	840
Karstairs, John, Dartford, England. Explosive and making same	625,684	May 23	3116	------	87	1367
Karstairs, John, Dartford, England. Explosive	625,685	May 23	3117	------	87	1368
Karten, Frank J. (See Fernald and Karten.)						
Karth, Emanuel M., Ashland, Ohio. Hay-wagon body	618,102	Jan. 24	2380	532	86	516
Kaselowsky, Emil, Berlin, Germany. Torpedo-launching apparatus	631,308	Aug. 22	2946	666	88	1353
Kaselowsky, Otto H. E., Berlin, Germany. Electric traction of railway-trains	633,594	Sept. 26	2644	617, 618	88	2266
Kasik, Franz C., assignor to Regina Music Box Company, Rahway, N. J. Rack for note-disks	628,943	July 18	1869	433	88	401
Kasmeier, John, Florence, Ala. Railway-signal	626,704	June 13	895	203	87	1806
Kasper, Philip H., and F. J. Schoepke, Bear Creek, Wis. Machine for cutting milk-curds	618,103	Jan. 24	2382	532	86	516
Kassner, Georg, Münster, Germany. Making lead sucrate	628,985	July 18	1939	------	88	415
Kasson, Arthur L. (See Burch and Kasson.)						
Kasson, Henry R. (See Mauger, George A., assignor.)						
Kast, Anton, and W. Rabich, St. Louis, Mo. Whiffletree-coupling	617,577	Jan. 10	1369	310	86	285
Kastner, Carl. (See Hackel, Gustav, assignor.)						
Kastrup, Herman. (See Yeager and Kastrup.)						
Kathreiner's Malzkaffee Fabriken Gesellschaft mit Beschränkter Haftung. (See Geiger, Joseph, assignor.)						
Kattell, John C., Passaic, N. J. Record-holder	628,333	July 4	730	168	88	140

Alphabetical list of patentees—Continued.

Name, residence, and invention.	No.	Date.	Monthly volume. Spec.	Monthly volume. Dr'g.	Official Gazette. Vol.	Official Gazette. Page.
Katz, Adolf, Stuttgart, Germany. Means for securing ceilings, floorings, &c., to solid floors	637,936	Nov. 28	3633	762	89	1744
Katzenberger, Oscar, assignor of one-half to C. M. Uhl, San Antonio, Tex. Lock	626,167	May 30	4131	941	87	1577
Katzenberger, Oscar, assignor of two-thirds to C. M. and H. Uhl, San Antonio, Tex. Registering fare-box	621,921	Mar. 28	2576	581	86	2041
Katzenmayer, Geronina, executrix. (See Giacomini, Luigi, assignor.)						
Katzki, Albert, Erie, Pa. Quick-action vise	633,286	Sept. 19	2050	481	88	2137
Kaucher, Frank, St. Joseph, Mo. Brush attachment for power grain-shovels	634,578	Oct. 10	1138	270	89	244
Kauder, Ernst, Darmstadt, Germany. Making alkyl ethers of morphin	623,789	Apr. 25	2943	------	87	621
Kauder, Ernst, Darmstadt, Germany. Making alkyl ethers of morpbin	626,910	June 13	1315	------	87	1887
Kauffeld, Louis. (See Dolan, Lawrence H., assignor.)						
Kauffman, Charles W., Deadwood, S. D. Attacbment for wheelbarrows	633,648	Sept. 26	2738	637, 638	88	2283
Kauffmann, Samuel, Chicago, Ill. Button	627,506	June 27	2412	530	87	2139
Kaufman, Frank, assignor to Western Paper and Manufacturing Company, Dayton, Ohio. Wax-pad	630,543	Aug. 8	1576	351	88	1043
Kaufman, Jacob D., C. B. Titus, and A. E. Vanarsdale, Little River, Kans. Acetylene-gas macbine	632,123	Aug. 29	4441	998	88	1658
Kaufman, Jacob H., assignor of one-half to W. S. Jobnson and A. H. Redington, Marysville, Cal. Shade-roller device	637,265	Nov. 21	2011	431	89	1362
Kaufman, Lizzie. (See Kaufman, Philip, assignor.)						
Kaufman, Philip, assignor to L. Kaufman, Baltimore, Md. Storm-suit	623,086	Apr. 11	1617	372	87	330
Kaufmann, Hermann P., Milwaukee, Wis., assignor to Gugler Litbographic Company, of Wisconsin. Advertising and display card	639,679	Dec. 19	2760	637	89	2443
Kautz, Andrew J., assignor to Chisholm, Boyd & Wbite Company, Cbicago, Ill. Machine for producing and maintaining fluid mixtures	635,857	Oct. 31	3533	812	89	756
Kavanagh, Dudley, New York, N. Y. Billiard-cushion	629,192	July 18	2313	537	88	487
Kavanagh, Thomas E., Vallejo, Cal. Reversible gang-plow	623,673	Apr. 25	2710	621	87	577
Kavanagh, William D. (See Rietzinger and Kavanagh.)						
Kay, Archibald, Manchester, England. Acetylene-gas generator	623,477	Apr. 18	2355	541, 542	87	492
Kay, Henry T., assignor of one-half to D. O. Crane, Topeka, Kans. Tire-tightener	636,204	Oct. 31	4214	969	89	892
Kaye, Ellsworth E., assignor to Robinson-Rea Manufacturing Company, Pittsburg, Pa. Method of and mold for casting chilled rolls	635,255	Oct. 17	2351	549	89	497
Kaye, W. E. (See Simpson, Roy B., assignor.)						
Kaye, Walter E. (See Simpson, Roy B., assignor.) (Reissue.)						
Kazmir, Joseph F., Dent, Okla. Ter. Excavating-machine	637,993	Nov. 28	3735	785, 786	89	1764
Keagle, Martin L., assignor of one-half to T. B. Gould, Parsons, W. Va. Wrench	636,230	Oct. 31	4276	981	89	904
Keagy, William W. (See Rush, George W., assignor.)						
Kean, Helen A., assignor of one-half to V. P. Lester, West Haven, Conn. Device for waxing sad-irons	639,924	Dec. 26	3206	736	89	2551
Kearns, Andrew J., Milwaukee, Wis. Furniture	626,429	June 6	398	94	87	1691
Kearns, Andrew J., Milwaukee, Wis. Case	626,430	June 6	399	94	87	1691
Kearns, Cbarles W., Chicago, Ill. Derrick	628,815	July 11	1639	377, 378	88	341
Kearns, James T., Delhi, Canada. Can-filling machine	625,170	May 16	2219	503	87	1168
Kearns, Thomas A., Chicago, Ill. Driving piles	625,978	May 30	3697	840	87	1498
Keates, Henry. (See Hampton and Keates.)						
Keating, Robert M., Springfield, Mass. Sprocket-chain	619,315	Feb. 14	982	221	86	1022
Keator, Jennie C., *et al.* (See Fernandez, William T., assignor.)						
Keats, John, Bagnall, and W. S. Clark, Street, England. Lasting-machine	628,200	July 4	451	106, 107, 108, 109	88	90
Keats, John, Bagnall, and W. S. Clark, Street, England. Channeling-machine	635,551	Oct. 24	2950	674, 675	89	630
Keck, Albert J., St. Paul, Minn. Pencil	635,688	Oct. 24	3192	735	89	677
Keck, Christian. (See Graf and Keck.)						
Keefe, Manus D., Boston, assignor to Edgar Manufacturing Co., Reading, Mass. Grater	619,489	Feb. 14	1273	292	86	1078
Keefe, P. H. (See Hough, Benjamin F., assignor.)						
Keefe, William J., Kansas City, Mo. Carbureting lamp	639,057	Dec. 12	1591	365	89	2196
Keelan, John, assignor of one-half to M. Laffey, Johnstown, Pa. Gas-burner	633,460	Sept. 19	2379	560	88	2201
Keeler, Harry D., Marion, Ohio. Beat-adjuster for pendulums	629,370	July 25	2640	613	88	569
Keeler, Henry C., assignor of one-half to C. Beymer, Waterville, Wash. Harness-buckle	628,540	July 11	1111	259	88	234
Keeler, Thaddeus B., Rahway, assignor to Standard Railroad Signal Company, Arlington, N. J. Railway signal system	619,890	Feb. 21	2027	460	86	1248
Keeler, Thaddeus B., Rahway, assignor to E. C. Johnson, Arlington, N. J. Signal-repeater	625,559	May 23	2913	662	87	1328
Keeler, William C., and F. P. Barr, Canton, Ohio. Tablet-holder	619,891	Feb. 21	2030	460	86	1249
Keely, Thomas, Washington, D. C. Hinge for box-coucbes	629,131	July 18	2212	512	88	468
Keen, Daniel E. (See Keen, Peter P. and D. E.)						
Keen, Joseph S., Jr. (See Rulon and Keen.)						
Keen, Morris, Philadelphia, Pa. Pocket cigarette-machine	635,018	Oct. 17	1900	452	89	411
Keen, Peter P. and D. E., Mount Carmel, Ill. Machine for pasting addresses to newspapers	625,510	May 23	2827	643, 644	87	1311
Keen, W. Witcher. (See Whitlock, Frederick B., assignor.)						
Keenan, Joseph, Allegheny, assignor of one-half to W. G. Lindsay, Pittsburg, Pa. Boiler-tube cleaner	629,080	July 18	2119	493, 494	88	451
Keenan, Thomas, New York, N. Y., assignor to Scotch Elevator Company. Hoisting apparatus	636,809	Nov. 14	1110	238	89	1173
Keenan, Thomas H., *et al.* (See Fanning, Eugene, assignor.)						
Keene, Frederick C., Bournemouth, England. Air-inlet valve for sewers	23,478	Apr. 18	2357	542	87	492
Keene, Joseph, Cbicago, Ill. Spring-hinge	620,933	Mar. 14	736	162	86	1658
Keene, Philip J., assignor of one-half to G. J. Rockwell, Chicago, Ill. Boiler	619,184	Feb. 7	738	160	86	956
Keene, Pbilip J., assignor of one-half to G. J. Rockwell, Cbicago, Ill. Water-tube boiler	637,616	Nov. 21	3037	625, 626	89	1604
Keene, Philip J., assignor of one-balf to G. J. Rockwell, Chicago, Ill. Water-tube boiler	637,617	Nov. 21	3039	627, 628	89	1604
Keene, Walter S., assignor of one-half to J. Bean, Jr., Lewiston, Me. Filtering-tunnel	639,583	Dec. 19	2573	590	89	2407
Keener, John E. (See Collins, George M., assignor.)						
Keeny, J. M., *et al.* (See Brown, Edmond H., assignor.)						
Keep, Edward P. (See Horton, Hazen A., assignor.)						
Keepers, J. C., *et al.* (See Keepers, John, assignor.)						
Keepers, John, assignor of two-tbirds to M. V. B. Parker and J. C. Keepers, Olathe, Kans. Tire-tigbtener	617,508	Jan. 10	1225	278	86	258

Alphabetical list of patentees—Continued.

Name, residence, and invention.	No.	Date.	Monthly volume. Spec.	Monthly volume. Drg.	Official Gazette. Vol.	Official Gazette. Page.
Keeran, William H. assignor of one-half to M. A. Mason, Fort Wayne, Ind. Writing-surface for blackboards or slates	633,551	Sept. 19	2532	------	88	2220
Kehrer, William H., Des Moines, Iowa. Knitting-machine	633,595	Sept. 26	2647	618	88	2266
Keighley, William B., Vineland, N. J. Sole-molding machine	627,122	June 20	1684	369	87	1978
Keigwin, Harry A. (See Peter and Keigwin.)						
Keil, Augustus J., Newark, N. J., assignor to Whitehead & Hoag Company, of New Jersey. Badge	630,058	Aug. 1	627	137	88	848
Keil, E. L. (See Keil, John L., assignor.)						
Keil, Francis and H. F., New York, N. Y. Pin-tumbler lock	623,674	Apr. 25	2713	622	87	577
Keil, Harry H., assignor to A. H. Brinkmann, Baltimore, Md. Bustle	626,207	May 30	4203	955	87	1590
Keil, Henry F. (See Keil, Francis and H. F.)						
Keil, John L., assignor of one-fourth to E. L. Keil, Blair, Nebr. Rotary engine	629,297	July 18	2485	579, 580	88	518
Keil, Oscar A., and J. Gallagher, Grand Rapids, Mich. Upholstering	620,712	Mar. 7	324	66	86	1564
Keil, Peter, Jr., Pittsburg, Pa. Order-blank binder	627,336	June 20	2069	456, 457	87	2057
Keim, Hermann, Munich, Germany. Time-alarm for telephones	628,472	July 11	979	227	88	205
Keim, John R. (See Smith, William H., assignor.)						
Keim, Julius, Weissenfels, Germany. Machine for punching, cutting, shearing, &c.	621,097	Mar. 14	1059	231	86	1718
Keim, Julius, Weissenfels, Germany. Apparatus for removing foreign substances from water-meters	637,266	Nov. 21	2012	431	89	1362
Keiper, Henry B., Lancaster, Pa. Manufacturing ball-retainers for antifriction-bearings	624,047	May 2	178	38	87	736
Keiper, Henry B., Lancaster, Pa. Oscillating bearing	633,096	Sept. 12	1677	395	88	2053
Keiper, Henry B., Lancaster, assignor to J. C. Reber, Reading, Pa. Back-pedaling brake	625,560	May 23	2914	662	87	1328
Keiper, John F., Everett, Wash. Ore-roasting furnace	625,336	May 23	2530	575	87	1253
Keiper, John F., Everett, Wash. Ore-roasting furnace	630,510	Aug. 8	1507	337	88	1029
Keith, Alexander E., J. and C. J. Erickson, assignors to Strowger Automatic Telephone Exchange, Chicago, Ill. Electrical exchange	638,249	Dec. 5	87	20,21	89	1883
Keith, Darius S. (See O'Brien and Keith.)						
Keith, Frank L., assignor of two-thirds to C. W. Latham and H. L. White, Detroit, Mich. Sash-fastener	617,399	Jan. 10	1043	237	86	222
Keith, George P., assignor to himself and C. E. Gould, Rochester, Ind. Railway-crossing	637,618	Nov. 21	3043	628	89	1605
Keith, James, London, England. Gas pump or compressor	617,026	Jan. 3	313	73,74	86	62
Keith, Jesse M., Murray, Iowa. Fence-machine	619,758	Feb. 21	1765	405	86	1197
Keith, John G., Chicago, Ill. Roller-bearing	625,561	May 23	2916	662, 663	87	1329
Keith, John G., Chicago, Ill. Roller-bearing	625,686	May 23	3118	708	87	1368
Keith, Lorin A., Mansfield, Ohio. Manifold order-book	628,008	July 4	94	19	88	20
Keithley, Herbert R., New York, N. Y. Method of and apparatus for making roll-drawn tubing	631,851	Aug. 29	3941	881, 882	88	1560
Kelch, Wallace M. (See Ohmer and Kelch.)						
Kelchner, Allen S. (See Kutz and Kelchner.)						
Kelchner, Sylvester W., Fowlerville, Pa. Thill-coupling	627,426	June 20	2264	500	87	2094
Kellam, Samuel A., Oxford, and J. B. Bischoff, Detroit, Mich. Damper-regulator	637,125	Nov. 14	1744	374	89	1295
Keller, Adam, New York, N. Y. Tag	621,347	Mar. 21	1510	336	86	1820
Keller, Albert K. (See Payne and Keller.)						
Keller, Charles A., assignor to Horton Electric Obtunding Company, Cleveland, Ohio. Adjustable vibrator for magnetic coils	624,824	May 9	1615	367	87	1037
Keller, Charles W. (See Gremmels and Keller.)						
Keller, Ernest, New York, N. Y. Manufacturing wine	639,398	Dec. 19	2244	------	89	2341
Keller, Fernando J., Rochester, N. Y. Toaster, broiler, &c	617,487	Jan. 10	1194	272	86	252
Keller, Hermann, Buffalo, N. Y. Acetylene-gas generator	628,201	July 4	454	109	88	90
Keller, Hermann A., Butte, Mont. Roasting-furnace	624,048	May 2	180	38	87	737
Keller, Jacob, Cleveland, assignor of one-half to W. L. Clark, Station Fifteen, Ohio. Ash-sifter	637,342	Nov. 21	2173	468	89	1394
Keller, James D., Detroit, Mich. Horse-boot protector	639,995	Dec. 26	3341	765	89	2578
Keller, Jasper N., Newton Mass. Insulated conductor	629,508	July 25	2915	678	88	623
Keller, Robert A. (See Helms and Keller.)						
Keller, Thomas H. (See Snavely and Keller.)						
Keller, Tobias F., Philadelphia, Pa. Mold	628,816	July 11	1641	378	88	341
Kellet, H. S., *et al.* (See Birdsall, Edgar M., assignor.)						
Kellet, Thomas S. (See Birdsall, Edgar M., assignor.)						
Kelley Bros. & Spielman. (See Jackson, Calvin, assignor.)						
Kelley, David A., and G. J. Nicolai, Philadelphia, Pa. Wall-paper-pasting machine	631,642	Aug. 22	3552	801	88	1475
Kelley, Frederick H., Providence, R. I., assignor to Eastman Kodak Company, Rochester, N. Y. Photographic shutter	622,955	Apr. 11	1387	319	87	283
Kelley, George A., Minneapolis, Minn. Operating mechanism for valves	618,464	Jan. 31	3072	680	86	661
Kelley, Logan C., and E. L. Reich, Ash Grove, Mo. Railway-frog	627,123	June 20	1687	369, 370	87	1979
Kellington, John, Terra Nova, assignor of one-half to D. J. Munn, New Westminster, Canada. Machine for wiping cans	618,795	Jan. 31	3656	818, 819	86	774
Kellington, John, Terra Nova, assignor of one-half to D. J. Munn, New Westminster, Canada. Can-capping machine	636,205	Oct. 31	4215	970, 971	89	893
Kellington, John, Terra Nova, assignor of one-half to D. J. Munn, New Westminster, Canada. Weight-sorting machine	636,206	Oct. 31	4219	971, 972	89	894
Kellner, C. J. E. (See Turner, Ephraim M., assignor.)						
Kellner, Carl, Vienna, Austria-Hungary. Method of and apparatus for producing alkali salts	631,468	Aug. 22	3233	734	88	1411
Kellner, Charles J. E., assignor of one-half to E. M. Turner, Forth Worth, Tex. Instep bearing or guard for stirrups	636,810	Nov. 14	1112	238	89	1173
Kellner, Frederick C. (See Klein, Adolph A., assignor.)						
Kellogg, Ernest A., Kansas City, Mo., assignor of one-half to W. F. Wood, Whitechurch, Kans. Truss	619,185	Feb. 7	741	161	86	957
Kellogg, George H. (See Lamb, Alfred G., assignor.)						
Kellogg, John H. (See Graham and Kellogg.)						
Kellogg, John H., assignor to Modern Medicine Publishing Company, Limited, Battle Creek, Mich. Body-brace	633,596	Sept. 26	2649	618, 619	88	2266
Kellogg, John H., assignor to Sanitas Nut Food Company, Limited, Battle Creek, Mich. Preparing cereal cakes	634,003	Oct. 3	42	13	89	12
Kellogg, Thomas E., assignor of one-fourth to H. A. Reynolds, Walla Walla, Wash. Vehicle-wheel	625,687	May 23	3120	709	87	1368
Kellogg, Willie K. (See Graham and Kellogg.)						
Kells, Charles E., Jr., assignor of one-half to L. H. Fairchild, New Orleans, La. Electrical signaling apparatus	629,298	July 18	2487	580	88	518

Alphabetical list of patentees—Continued.

Name, residence, and invention.	No.	Date.	Monthly volume. Spec.	Monthly volume. Dr'g.	Official Gazette. Vol.	Official Gazette. Page.
Kells, Edward. (See Marty, John M., Jr., assignor.)						
Kelly, Adam L., Wheeling, W. Va. Machine for grinding chilled rolls	623,314	Apr. 18	2068	474, 475	87	433
Kelly, Alonzo, Harrisburg, Pa. Car-coupling	621,253	Mar. 14	1330	295	86	1772
Kelly, Anthony A. (See Smithers and Kelly.)						
Kelly, Charles, Passaic, N. J. Acetylene-gas-generating lamp	631,643	Aug. 22	3553	801	88	1475
Kelly, Clarence E., assignor of one-half to A. J. Haworth, Greentown, Ind. Bicycle-tire repair-tool	617,810	Jan. 17	1826	408	86	395
Kelly, Edward, Wallaceburg, Canada. Guard or fender for vehicle-wheels	617,101	Jan. 3	465	112	86	91
Kelly, Edward, San Francisco, Cal., assignor to Berlin Machine Works, Beloit, Wis. Abraiding and polishing roll	631,507	Aug. 22	3309	752	88	1426
Kelly, Frederick H., Au Sable, Mich. Label-holder	623,023	Apr. 11	1514	351	87	309
Kelly, George, Mineral Point, Wis. Burner for heating-stoves	636,433	Nov. 7	346	78	89	991
Kelly, George, assignor of one-half to P. Allen, Mineral Point, Wis. Foot or leg rest	621,098	Mar. 14	1060	231	86	1718
Kelly, George, assignor of one-half to P. Allen, Mineral Point, Wis. Rocking or lounging chair	629,694	July 25	3234	752	88	684
Kelly, George J. (See Horspool and Kelly.)						
Kelly Handle Bar Company. (See Marty, John M., Jr., assignor.)						
Kelly, Harold, Biddeford, assignor of one-half to J. P. Kelly, Saco, Me. Lease-rod	624,658	May 9	1299	290	87	974
Kelly, Henry, Ilkeston, England. Tool	617,441	Jan. 10	1122	256	86	237
Kelly, Henry, Waterloo, Iowa, assignor to himself and O. B. Taneyhill. Grinding-mill	619,892	Feb. 21	2031	461	86	1249
Kelly, Henry M. (See Johnson, Albert W., assignor.)						
Kelly, Herbert S., Salem, Mass. Friction-clutch	622,007	Mar. 28	2742	619	86	2073
Kelly, Inda M., Washington, Kans. Drawer	618,957	Feb. 7	293	63	86	868
Kelly, James P. (See Kelly, William C. and J. P.)						
Kelly, James R., *et al.* (See Peavy and Dickson, assignors.)						
Kelly, John, Chicago, Ill. Self-closing cock	627,671	June 27	2728	598	87	2202
Kelly, John, Chicago, Ill. Valve device	632,417	Sept. 5	371	84,85	88	1779
Kelly, John A., New York, N. Y. Bicycle or similar machine	617,578	Jan. 10	1370	311	86	285
Kelly, John A., New York, N. Y. Bicycle	639,996	Dec. 26	3343	765	89	2578
Kelly, John A., assignor of one-half to S. E. Bowman, Syracuse, N. Y. Shoe	637,002	Nov. 14	1497	322	89	1249
Kelly, John F., Pittsfield, Mass. Amalgam-washing chamber	627,193	June 20	1801	395	87	2002
Kelly, John M. (See Higgins, Edward S., assignor.)						
Kelly, John P. (See Kelly, Harold, assignor.)						
Kelly, Leonidas L., Chicago, Ill. Carbureter	622,489	Apr. 4	545	128	87	103
Kelly, O. S., *et al.* (See Krotz, Alvaro S., assignor.)						
Kelly, O. W., *et al.* (See Krotz, Alvaro S., assignor.)						
Kelly, Orin, Wellston, Ohio. Engineering instrument	638,846	Dec. 12	1225	276	89	2125
Kelly, Robert M., *et al.* (See Shields, George W., assignor.)						
Kelly, Thomas G., Blissville, Canada. Bicycle	638,723	Dec. 12	1029	231	89	2086
Kelly, Timothy. (See Gardner, Edwin P., assignor.)						
Kelly, Timothy. (See Page, William H., assignor.)						
Kelly, William C. and J. P., Alexandria, Ind. Adjustable press	631,573	Aug. 22	3441	777	88	1453
Kelly, William E., assignor of one-half to K. J. Weed, Cleveland, Ohio. Handle-bar for bicycles	622,490	Apr. 4	547	128	87	103
Kelly, William J., assignor to J. A. Kelly & Bros., Clinton, Iowa. Upholstery-pin	617,988	Jan. 17	2144	478	86	457
Kelly, William J., assignor to J. A. Kelly & Bros., Incorporated, Clinton, Iowa. Sofa-bedstead	638,466	Dec. 5	542	111	89	1971
Kelmel, Albert E. (See Stafford and Kelmel.)						
Kelmel, Albert E., Providence, R. I., assignor to Crompton & Knowles Loom Works, Worcester, Mass. Double-action jacquard-machine	625,562	May 23	2919	663	87	1329
Kelmel, Albert E., assignor to Crompton & Knowles Loom Works, Providence, R. I. Double-action jacquard-machine	625,563	May 23	2920	663, 664	87	1329
Kelsall, Richard E., Bexhill, England. Boot or shoe	621,922	Mar. 28	2582	582	86	2041
Kelsey, Frank N., New Haven, assignor to Billings & Spencer Company, Hartford, Conn. Trolley-catcher	626,168	May 30	4133	941	87	1577
Kelsey, Henry O., assignor of two-thirds to W. S. Hatch and L. Harrington, Salamanca, N. Y. Pipe-coupling	634,087	Oct. 3	182	46	89	40
Kelsey, Reuben W., *et al.* (See Carr, George H., assignor.)						
Kelsey, William B., assignor to Yale & Towne Manufacturing Company, Stamford, Conn. Lock	635,783	Oct. 31	3387	782	89	729
Kelso, Jerome T., assignor of one-half to J. D. La Croix, Vincennes, Ind. Acetylene-gas generator	623,910	Apr. 25	3167	730	87	664
Kelso, John S., Jr., and P. L. Wilbur; said Kelso assignor to J. W. Crump, New York, N. Y. Holder for road-maps	625,844	May 30	3442	781	87	1449
Kemler, William H., and C. H. Greene, Pittsburg, Pa. Manufacturing mineral wool	637,126	Nov. 14	1745	------	89	1296
Kemmis-Betty, William, and B. Searle, near Johannesburg, South African Republic. Recovering gold from pulp, slimes, or similar substances	630,982	Aug. 15	2351	------	88	1219
Kemnitz, Emil, Memphis, Tenn. Fan attachment for sewing-machines	627,124	June 20	1690	370	87	1980
Kemp, Clarence M., Baltimore, Md. Carbureter	622,008	Mar. 28	2743	620	86	2073
Kemp, Clarence M., Baltimore, Md. Carbureter	622,808	Apr. 11	1119	260	87	232
Kemp, Clarence M., Baltimore, Md. Rotary-cylinder drier	630,059	Aug. 1	629	138	88	848
Kemp, Clarence M., Baltimore, Md. Apparatus for distilling and aerating water	633,851	Sept. 26	3091	718	88	2355
Kemp, Clarence M., Baltimore, Md. Apparatus for generating acetylene-gas	634,945	Oct. 17	1765	419, 420	89	383
Kemp, Clarence M., Baltimore, Md. Carbureter	635,894	Oct. 31	3617	834	89	773
Kemp, James W., Baltimore, Md. Trumpet for graphophones, &c	621,821	Mar. 28	2387	534	86	2004
Kemp, Joseph S., Syracuse, N. Y. Manure-spreader	632,124	Aug. 29	4442	998, 999	88	1658
Kempshall, Eleazer, Newton, assignor to T. King, trustee, Boston, Mass. Riveting machine	628,098	July 4	266	63, 64	88	53
Kempshall, Eleazer, Newton, Mass., assignor to Rubber Tire Company of America, New York, N. Y. Cushioned pneumatic vehicle-tire	639,399	Dec. 19	2245	519	89	2341
Kempshall, Eleazer, Newton, Mass., assignor, by mesne assignments, to Rubber Tire Company of America, New York, N. Y. Cushioned pneumatic vehicle-tire	639,400	Dec. 19	2248	519	89	2341
Kempshall, Eleazer, Newton, assignor to Enamel Eyelet Company, Boston, Mass. Eyelet	639,997	Dec. 26	3346	765	89	2579
Kempshall, Eleazer, Newton, assignor to Neverbreak Shoe String Company, Boston, Mass. Rubber-tipped lacing	639,998	Dec. 26	3347	766	89	2579
Kenah, Frank T. (See Alger, Arthur H., assignor.)						
Kendall, David W., Grand Rapids, Mich. Brace for knockdown furniture	636,434	Nov. 7	347	78	89	991
Kendall, Edward, Cambridge, Mass. Vertical tubular steam-boiler	617,509	Jan. 10	1226	278, 279	86	259
Kendall, Edward, Cambridge, Mass. Horizontal tubular steam-boiler	617,510	Jan. 10	1228	279, 280	86	259
Kendall, Edward D., assignor to himself and E. N. Dickerson, New York, N. Y. Treating gold or silver ores and composition of matter for same purpose	625,564	May 23	2923	664	87	1330

Alphabetical list of patentees—Continued.

Name, residence, and invention.	No.	Date.	Monthly volume. Spec.	Monthly volume. Dr'g.	Official Gazette. Vol.	Official Gazette. Page.
Kendall, Edward D., assignor to himself and E. N. Dickerson, New York, N. Y. Treating gold or silver ores and composition of matter for same purpose	625,565	May 23	2925	664	87	1330
Kendall, Elton P., Fairlee, assignor of two-thirds to G. A. Dickey, Bradford, and C. F. Smith, Topsham, Vt. Rotary engine	621,822	Mar. 28	2388	534	86	2004
Kendall, Ernest A. V., Hartford, Conn. Controlling mechanism for vehicles	637,127	Nov. 14	1746	374	89	1296
Kendall, Joseph T. (See Greenwood, Alexander S., assignor.)						
Kendall, Louis L., Williamsburg, Ky. Portable device for thawing frozen ground	624,945	May 16	1836	412	87	1097
Kendle, John H., Bognor, England. Detachable handle for frying-pans	625,955	May 30	3654	829	87	1489
Kendle, John H., Bognor, England. Lighting device	634,004	Oct. 3	43	13	89	12
Kendrick, Frank B., *et al.* (See Jenkins, Charles H., assignor.)						
Kendrick, Frank B., Lebanon, N. H. Tool-holder	633,852	Sept. 26	3093	718	88.	2355
Kendrick, Hiland H., Fulton, N. Y. Sanitary closet	620,039	Feb. 21	2282	517, 518	86	1296
Kendrick, John L., Cincinnati, Ohio. Non-refillable bottle	620,076	Feb. 21	2345	531	86	1308
Kendrick, John L., assignor of one-half to W. M. Johnson, Cincinnati, Ohio. Shutter-fastener	625,304	May 16	2462	560	87	1214
Kendrick, Matthew B., Newport, Ky., assignor of one-half to F. B. Rampe, Cincinnati, Ohio. Cover-holder for beds	617,879	Jan. 17	1956	438	86	420
Kenefic, E. B. (See La Veen, Andrew, assignor.)						
Keneston, Albert D., assignor to G. Keneston, Albany, N. Y. Inking mechanism for multicolor-printing	639,247	Dec. 19	1948	449	89	2281
Keneston, George. (See Keneston, Albert D., assignor.)						
Kenevel-Coking-Process Company. (See Kenevel, Jeannot W., assignor.)						
Kenevel, Jeannot W., New York, N. Y., assignor to Kenevel-Coking-Process Company, Chicago, Ill. Desulfurizing and dephosphorizing coal or ores	618,104	Jan. 24	2383	532	86	517
Kenfield, Stephen B., San Francisco, assignor of one-half to J. D. Eby, Oakland, Cal. Gang-edger	626,431	June 6	401	95	87	1692
Kenfield, William W., assignor to Rochester Cycle Manufacturing Company, Rochester, N. Y. Gearing	623,087	Apr. 11	1619	372	87	330
Kenfield, William W., assignor to Rochester Cycle Manufacturing Company, Rochester, N. Y. Gearing	628,407	July 4	852	200	88	163
Kenison, John B. (See Evans, Allard, and Kenison.)						
Kenison, John B., trustee. (See Evans and Allard, assignors.)						
Kenison, John B., Lynn, Mass. Sole-edge-blacking machine	629,132	July 18	2213	513, 514	88	469
Kenison, John B., Lynn, assignor to American Car Sprinkler Company, Worcester, Mass. Sprinkler-car	633,597	Sept. 26	2652	619	88	2267
Kenison, John B., Lynn, assignor to American Car Sprinkler Company, Worcester, Mass. Sprinkler-car	633,598	Sept. 26	2654	619, 620	88	2267
Kenison, John B., Lynn, assignor to American Car Sprinkler Company, Worcester, Mass. Sliding-gate valve for sprinkler-cars	635,784	Oct. 31	3389	782, 783	89	730
Kenna, Benjamin F., assignor to H. S. Firestone, Chicago, Ill. Apparatus for applying vehicle-tires	637,874	Nov. 28	3522	737, 738	89	1722
Kennard, William K., assignor of one-half to G. W. and L. C. Smith, Hampden, Me. Chainless bicycle	624,500	May 9	1022	230, 231	87	919
Kennedy, Albert E. (See Bush, Henry, assignor.)						
Kennedy, Anthony. (See Hollar and Kennedy.)						
Kennedy, Charles W., Rutledge, Pa., assignor, by mesne assignments, to Electric Power Development Company. Electrode for storage batteries	629,260	July 18	2427	562	88	507
Kennedy, Charles W., Rutledge, Pa., assignor, by mesne assignments, to Electric Power Development Company. Storage battery	629,371	July 25	2641	613	88	569
Kennedy, Charles W., Rutledge, Pa., assignor to Electric Power Development Company. Storage battery	629,372	July 25	2642	613	88	570
Kennedy, Charles W., Rutledge, Pa., assignor, by mesne assignments, to Electric Power Development Company. Storage battery	630,714	Aug. 8	1864	421	88	1098
Kennedy, Dwight B., Oakmont, Pa., assignor of two-thirds to S. C. Munoz and E. C. Darley, Chicago, Ill. Boiler	618,357	Jan. 24	2850	633	86	604
Kennedy, Dwight B., and W. B. Scaife, Pittsburg, Pa. Car-bolster	630,896	Aug. 15	2185	497	88	1187
Kennedy, Edgar D., *et al.* (See Robinson, Frank, assignor.)						
Kennedy, Frank, Cambridge, Mass. Machine for molding popcorn	635,137	Oct. 17	2160	503, 504	89	461
Kennedy, George M., Denison, Iowa. Dumping apparatus	634,643	Oct. 10	1237	294	89	263
Kennedy, Harry L. (See Kennedy, John E. and H. L.)						
Kennedy, Henry A., assignor to P. H. and C. H. Coleman, Providence, R. I. Car seal and tag	624,217	May 2	496	106	87	794
Kennedy, Jeremiah J., Philadelphia, Pa. Apparatus for drying and burning garbage	620,458	Feb. 28	3007	688	86	1448
Kennedy, John. (See Halket and Kennedy.)						
Kennedy, John E., Montreal, Canada. Garment-hanger	625,265	May 16	2391	542	87	1201
Kennedy, John E., Montreal, Canada. Sliding door for wardrobes	625,266	May 16	2392	542	87	1201
Kennedy, John E., Montreal, Canada. Wardrobe	631,525	Aug. 22	3337	758	88	1432
Kennedy, John E., Montreal, Canada. Valve for ventilated shoes	635,101	Oct. 17	2080	489	89	447
Kennedy, John E. and H. L., assignors to Kennedy Manufacturing Company, Indianapolis, Ind. Gas-meter	623,911	Apr. 25	3171	730, 731	87	665
Kennedy, John F. (See Hatton, Thomas H., assignor.)						
Kennedy, Joseph R., Stockton, N. J., assignor of one-half to H. Hobdell, Philadelphia, Pa. Device for extracting stoppers	635,728	Oct. 24	3274	756	89	692
Kennedy, Julian, Pittsburg, Pa. Hot-blast stove	617,930	Jan. 17	2051	459	86	440
Kennedy, Julian, Pittsburg, Pa. Rolling unsymmetrical flanged sections	623,479	Apr. 18	2358	542	87	492
Kennedy, Julian, Pittsburg, Pa. Ingot-extractor	628,473	July 11	981	227	88	209
Kennedy, Julian, Pittsburg, Pa. Adjusting mechanism	634,088	Oct. 3	183	46	89	41
Kennedy, Julius A., assignor of one-half to G. W. Lamance, Maiden, N. C. Damper for fireplaces	624,049	May 2	181	39	87	737
Kennedy Manufacturing Company. (See Kennedy, John E. and H. L., assignors.)						
Kennedy, Margaret, Fredonia, Ill. Cook-stove	635,552	Oct. 24	2952	675	89	630
Kennedy, Matthew J. (See Hoare and Kennedy.)						
Kennedy, Michle, Pratt City, Ala. Railway-spike	631,489	Aug. 22	3274	745	88	1419
Kennedy, Oliver S. (See Rogers and Kennedy.)						
Kennedy, Patrick M., Columbus, Ohio. Suspensory	623,315	Apr. 18	2070	475	87	433
Kennedy, Rankin, Bradford, England. Electrical storage battery and plate therefor	620,593	Mar. 7	75	15	86	1517
Kennedy, Richard, Highland, Wis. Coating metallic fence-posts	622,009	Mar. 28	2746	------	86	2074
Kennedy, Thomas C., Dayton, Ohio. Explosive-engine	621,572	Mar. 21	1911	427	86	1896
Kennedy, William R., assignor to American Machine Company, Newark, Del. Piston for hot-air engines	639,999	Dec. 26	3347	766	89	2579
Kennelly, Arthur E. (See Houston and Kennelly.)						
Kennelly, John J., New York, N. Y. Fare-register	616,932	Jan. 3	127	28,29	86	26
Kennelly, John J., New York, N. Y. Brake apparatus	616,933	Jan. 3	132	30	86	27
Kennelly, John J., New York, N. Y. Fare-register	616,934	Jan. 3	133	30,31	86	27

Alphabetical list of patentees—Continued.

Name, residence, and invention.	No.	Date.	Monthly volume. Spec.	Monthly volume. Dr'g.	Official Gazette. Vol.	Official Gazette. Page.
Kennelly, John J., assignor of one-half to J. M. Ficken, New York, N. Y. Measuring-faucet	635,256	Oct. 17	2353	549	89	497
Kenney, Augustine, assignor to H. Zadig, R. C. Reed, and W. Brady, San Francisco, Cal. Water-filter	634,113	Oct. 3	243	61	89	52
Kenney, Charles H., New London, Conn. Steam-generator	635,019	Oct. 17	1901	452	89	411
Kennon, Charles W., Tampa, Fla. Washboard	633,011	Sept. 12	1498	348	88	2017
Kenny, Michael J., Chicago, Ill. Fastening for refrigerator-doors	633,552	Sept. 19	2532	594	88	2229
Kent, Benjamin F., Eugene, Oreg. Lamp-bracket	634,464	Oct. 10	934	223	89	204
Kent, George E. (See Carroll, William N., assignor.)						
Kent, George W., Leominster, Mass. Saw-setting machine	616,935	Jan. 3	142	32	86	29
Kent, William M., Buffalo, N. Y. Gate	629,509	July 25	2917	678	88	623
Kenyon, Bertrand P., assignor to Michigan Vapor Stove Company, Grand Rapids, Mich. Furniture-caster	636,148	Oct. 31	4115	942	89	872
Kenyon, Daniel C., Wyoming, R. I. Lady's toilet-mirror	623,790	Apr. 25	2943	672	87	622
Keogh, Dennis F. (See Flockhart and Keogh.)						
Keough, Zachariah, Shelby, Ohio. Friction-clutch	623,550	Apr. 25	2497	573, 574	87	537
Kepler, Orlando S., Patterson, Pa. Track-sight	621,254	Mar. 14	1332	296	86	1773
Kepner, Erastus P., Nora, Ill. Hedge-trimmer	625,688	May 23	3121	709, 710	87	1368
Kepp, Ferdinand, Allegheny, and G. Mesta, Pittsburg, Pa. Molding apparatus	627,933	June 27	3198	700	87	2298
Kerekes, Daniel, Chicago, Ill. Nailless horseshoe	639,248	Dec. 19	1951	449	89	2281
Kermode, John J., Liverpool, England. Apparatus for burning liquid fuel in steam-generators, &c	638,340	Dec. 5	289	59, 60	89	1922
Kern, Erwin, and C. Claflin, assignors to E. F. Caldwell, New York, N. Y. Cover for junction-boxes	629,373	July 25	2643	614	88	570
Kern, Gottlieb, Omaha, Nebr., assignor to R. W. Moffett, Chicago, Ill. Billiard-cushion	618,574	Jan. 31	3273	726	86	699
Kern, Isaac R., assignor of three-fourths to L. C. Stuart, W. West, Kansas City, Mo., and S. Lindsey, Parsons, Kans. Combined calipers and valve-setting device	639,249	Dec. 19	1952	449	89	2281
Kern, Leopold, Hillsborough, N. H. Carpet-fastener	620,782	Mar. 7	457	94	86	1591
Kern, Ottmar, Paris, France. Gas-burner	633,518	Sept. 19	2470	581	88	2219
Kerngood, Herman, Baltimore, Md. Buckle	629,906	Aug. 1	296	67	88	778
Kernek, Julius G., Stockton, Cal. Wrench for tire-bolts	620,657	Mar. 7	216	44	86	1544
Kernodle, Benjamin F., Jamestown, Ind. Hand-tool for forming staples	632,311	Sept. 5	193	44	88	1745
Kernohan, William S., Warren, Ohio. Washing-machine	627,644	June 27	2684	588	87	2193
Kerr, Archibald, Carmichael, Pa. Trestle	626,911	June 13	1316	290	87	1887
Kerr, Edward L. (See Woods, Granville T., assignor.)						
Kerr, Hugh S., Philadelphia, Pa. Blank for ornamental receptacles and pendants	618,275	Jan. 24	2706	600, 601	86	576
Kerr, James E., Philadelphia, Pa. Woven fabric	622,237	Apr. 4	66	16	87	16
Kerr, James G., assignor of one-fourth to H. W. Smith, Niagara, Canada. Acetylene-gas generator	630,834	Aug. 8	2070	467	88	1141
Kerr, William J., Ozark, Mo. Seed-planter	625,774	May 30	3303	750	87	1422
Kerrigan, Hugh J. (See Cunniff and Kerrigan.)						
Kerrinnes, Heinrich, Yorksdorf, Germany. Producing press-peat	621,923	Mar. 28	2583	582	86	2041
Kerris, Alphons, Godesberg, Germany. Apparatus for removing graphite crusts from interiors of gas-retorts	630,897	Aug. 15	2188	497	88	1187
Kerry, A. S., *et al.* (See Kerry, Aaron, assignor.)						
Kerry, Aaron, assignor of two-thirds to M. Mills and A. S. Kerry, Marysville, Mich. Brace and drill	618,512	Jan. 31	3168	699	86	679
Kershaw, Earnest J., Cleveland, assignor to S. and G. H. Kile, Grafton, Ohio. Skewer-making machine	632,125	Aug. 29	4447	999, 1000	88	1659
Kershaw James E., Covington, Ky. Protecting-sheath for pneumatic tires	636,435	Nov. 7	348	79	89	991
Kershaw, Percy B. W., assignor to H. Dundas, London, England. Type-writer	618,683	Jan. 31	3465	773, 774, 775, 23	86	737
Kershaw, William, Leeds, England. Apparatus for feeding sheets of paper	632,268	Sept. 5	109	24, 25	88	1729
Kesselring, Ulrich, St. Imier, Switzerland. Acetylene-gas generator	626,237	June 6	39	9	87	1622
Kessler, Frederich, Corder, Mo. Flood-gate	636,046	Oct. 31	3894	894	89	828
Kessler, William F., Auburn, Ind. Electric cigar-lighter	623,480	Apr. 18	2359	543	87	492
Kessler, William F., Auburn, Ind. Electric cigar-lighter	624,218	May 2	497	106	87	795
Kessler, William H., Merwin, Mo., assignor of one-fourth to G. M. Rosier. Collection and delivery mail-box	632,815	Sept. 12	1162	266	88	1953
Kester, Jesse F., Buffalo, N. Y. Self-fluxing solder	628,541	July 11	1112	259	88	234
Kester, John H., Winston, N. C. Machine for manufacturing lump or plug tobacco	630,238	Aug. 1	938	204, 205, 206	88	907
Kester, William, Washington Mills, Iowa. Turning attachment for plows	620,329	Feb. 28	2803	640	86	1410
Kesting, Paul F., Ottawa, Kans. Wooden wall	637,937	Nov. 28	3635	762	89	1744
Ketch, Clark, *et al.* (See Nichols, Lewis N., assignor.)						
Ketchum, Edmund, New York, N. Y. Building-partition	620,594	Mar. 7	76	15	86	1518
Ketchum, Oliver W., assignor to Raymond Button Company, Baltimore, Md. Button-setting machine	623,163	Apr. 18	1804	413	87	379
Ketchum, Oliver W., assignor to Raymond Button Company, Baltimore, Md. Metallic button	634,173	Oct. 3	351	90	89	73
Ketchum, Oliver W., and W. W. Varney, assignors to Raymond Button Company, Baltimore, Md. Button and button-fastener	618,883	Feb. 7	118	25	86	827
Ketterer, Emil. (See Robinson, John M., assignor.)						
Ketterer, John H. (See Norton and Hinkley, assignors.)						
Kettron, Charles, and F. V. Maxwell, Macomb, Ill. Apparatus for making molds for stoneware or earthenware jars	618,276	Jan. 24	2707	601	86	576
Keuffel, Willie L. E., Hoboken, N. J. Slide-rule	621,348	Mar. 21	1511	336	86	1820
Keusink, Adam. (See Edey, Charles E. C., assignor.)						
Keusink, Adam, Tacoma, Wash. Device for operating car-couplings	639,899	Dec. 26	3157	727	89	2539
Key, George F., Ann Arbor, Mich. Refining iron	627,855	June 27	3050	667	87	2266
Key, George F., assignor of one-half to W. J. Clancy, Ann Arbor, Mich. Filter	635,934	Oct. 31	3680	849	89	785
Key, Isaac, Leach, Ind. Churn	631,723	Aug. 22	3712	833	88	1504
Keyes-Baker Cigar Rolling Machine Company. (See Keyes, Frank R., assignor.)						
Keyes-Baker Cigar Rolling Machine Company. (See Russell, Ross M., assignor.)						
Keyes, Frank E., New York, N. Y. Machine for lining pipes	618,418	Jan. 31	3000	664	86	648
Keyes, Frank R., assignor to Keyes-Baker Cigar Rolling Machine Company, Bingham-ton, N. Y. Cigar-wrapping machine	631,309	Aug. 22	2948	666, 667	88	1354
Keyes, Malcolm S., and J. H. Spencer, assignors to Spencer & Co., New York, N. Y. Telephone system	631,167	Aug. 15	2683	606	88	1283

Alphabetical list of patentees—Continued.

Name, residence, and invention.	No.	Date.	Monthly volume.		Official Gazette.	
			Spec.	Dr'g.	Vol.	Page.
Keys, Benjamin, Chicago, Ill. Egg-holder	634,500	Oct. 10	991	237	89	216
Keyser, Benjamin F., Quincy, assignor of one-half to B. F. Conway, Covington, Ky. Nut-lock	630,715	Aug. 8	1867	422	88	1099
Keyser, Charles R., Cumberland, Md. Window-cleaner	622,809	Apr. 11	1124	260	87	233
Keyser, James, and C. Roche, Slidell, La. Combined level and plumb	628,334	July 4	731	169	88	141
Keyser Manufacturing Company. (See Keyser, William B., assignor.)						
Keyser, William B., assignor to Keyser Manufacturing Company, Chattanooga, Tenn. Refrigerator	621,497	Mar. 21	1776	396	86	1869
Keysser, Adalbert, Hanover, Germany. Incandescent gas-lamp	618,684	Jan. 31	3470	775	86	738
Keystone Acetylene Gas Company. (See Leonard, Franklin, assignor.)						
Keystone Driller Company. (See Downie, Robert M., assignor.)						
Keystone Farm Machine Company. (See Smith, Maine, and Pitts, assignors.)						
Keystone Manufacturing Company. (See Berry, Ira G., assignor.)						
Keystone Manufacturing Company. (See Swarthout, Ralph S., assignor.)						
Keystone Umbrella Rod Company. (See Morrison, William, assignor.)						
Keystone Watch Case Company. (See Fladva, Henry O., assignor.)						
Keyt, John E., San Francisco, Cal. Grate for cooking-stoves, &c	634,414	Oct. 3	836	201	89	167
Keyton, John F., Baker City, Oreg. Ore-crusher	626,326	June 6	205	50	87	1652
Kholodkowsky, André, Kishenev, Russia. Safety-joint for air-brakes	627,337	June 20	2072	457	87	2057
Kholodkowsky, André, Kishenev, Russia. Actuating apparatus for railway-brakes	628,944	July 18	1871	433, 434	88	401
Kidd, George, *et al.* (See Wrede and Saunders, assignors.)						
Kidd, Henry S., and M. H. Depue, Washington, N. J. Collapsible seat and head-rest	633,012	Sept. 12	1500	348, 349	88	2017
Kidd, Henry S., and M. H. Depue, Washington, N. J. Folding seat	636,671	Nov. 7	799	177	89	1083
Kidd, John S., Des Moines, Iowa. Sprocket wheel and chain	616,936	Jan. 3	145	32	86	29
Kidd, John S., Des Moines, Iowa. Wagon-dump and elevator	630,239	Aug. 1	940	206, 207	88	908
Kidd, Kittie Z. (See Moore, William H., assignor.)						
Kidder, Wellington P., Boston, Mass. Type-writing machine	630,060	Aug. 1	633	138, 139	88	849
Kidder, Wellington P., Boston, assignor to Morgan Envelope Company, Springfield, Mass. Machine for perforating and winding paper	624,050	May 2	182	39, 40	87	737
Kidder, William E., assignor to Kalamazoo Sled Company, Kalamazoo, Mich. Hand-sled	630,810	Aug. 8	2028	457	88	1133
Kidney, William I. (See Baird, Charles W., assignor.)						
Kiefer, Charles J., Indianapolis, Ind. Mute for cornets	623,912	Apr. 25	3173	731	87	666
Kieley, Timothy J., New York, N. Y. Steam-trap	635,138	Oct. 17	2162	504	89	461
Kiesele, John A., Newark, N. J. Candle-holder	629,791	Aug. 1	54	14	88	731
Kieser, Charles, Baltimore, Md. Grass-cutter	634,946	Oct. 17	1770	420	89	384
Kiesler, Joseph, Chicago, Ill. Power-shovel	624,659	May 9	1300	290	87	974
Kiesler, Joseph, Chicago, Ill. Power-shovel	624,660	May 9	1301	290	87	974
Kight, William K., assignor of one-half to H. D. Williams, Poplar Bluff, Mo. Car-coupling	627,194	June 20	1802	395	87	2002
Kilbane, John H., *et al.* (See De Wallace, Harry, assignor.)						
Kilbourn, Edward E., New Brunswick, N. J. Thread-oiling device for winding-machines	619,893	Feb. 21	2032	461	86	1249
Kilbourn Manufacturing Company. (See Kilbourn, Washington H., assignor.)						
Kilbourn, Washington H., Greenfield, Mass. Track-sanding device	620,040	Feb. 21	2285	518	86	1297
Kilbourn, Washington H., Greenfield, assignor to Kilbourn Manufacturing Company, Boston, Mass. Track-sanding device	624,820	May 9	1608	365	87	1036
Kilbourn, William D., Pueblo, Colo. Paper-holder	618,987	Feb. 7	377	78	86	883
Kilbourn, William D., Pueblo, Colo. Bottle-closure	632,575	Sept. 5	673	156	88	1839
Kilburn, John, Belmont, Mass. Machine for adjusting spindles	627,582	June 27	2554	562, 563	87	2167
Kilburn, John, Belmont, Mass. Bearing for spindles. (Reissue)	11,761	July 25	3354	782	88	708
Kilburn, Richard, Manchester, England. Screwing appliance for forming screw-threads on bolts, &c	621,528	Mar. 21	1834	408	86	1881
Kilburn, Richard, Manchester, England. Tap for forming screw-threads	635,324	Oct. 24	2481	577	89	538
Kilby, Joseph F. (See Kohn, Joseph E., assignor.)						
Kile, George H., *et al.* (See Kershaw, Earnest J., assignor.)						
Kile, Salem, *et al.* (See Kershaw, Earnest J., assignor.)						
Kiler, George W. (See Wright, Samuel M., assignor.)						
Kiley, John, Salamanca, N. Y. Tie-plate gage for railways	623,722	Apr. 25	2787	637	87	590
Kilgore, John H., *et al.* (See Mowery, Robert, assignor.)						
Kilgore, Joseph R., *et al.* (See Mowery, Robert, assignor.)						
Kilgore, Thad S., Henderson, Iowa. Coupling-pin	620,934	Mar. 14	738	163	86	1658
Killars, John, Stonington, Conn. Knife-sled motion for looms	636,263	Nov. 7	68	15, 16	89	936
Killars, John, Stonington, Conn. Loom for weaving double-pile fabrics	636,533	Nov. 7	537	118	89	1029
Killen, Edward B., Belfast, Ireland. Driving-back for velocipedes, &c	636,222	Oct. 31	4251	977	89	899
Killey, Frank A., Richmond, Ill. Game	625,845	May 30	3443	781	87	1449
Killin, Joel T., Greenville, Oreg. Butter-worker	622,491	Apr. 4	547	128	87	103
Killing, Carl, Dusseldorf, Germany. Purifying raw alcohol from aldehyde	617,400	Jan. 10	1045	237	86	222
Killman, Thomas A., and H. A. Bratten, Liberty, Tenn. Type-writing machine	633,139	Sept. 19	1768	417, 418	88	2081
Killman, Thomas A., and A. E. Potter, Liberty, Tenn. Spoke-socket	635,785	Oct. 31	3391	783	89	730
Killman, Thomas A., and A. E. Potter, Liberty, Tenn. Checking or unchecking device	639,736	Dec. 26	2867	660	89	2483
Killson, Horatio N., Elroy, Wis. Horseshoe and calk	632,576	Sept. 5	674	156	88	1840
Kimball Co., A. (See Dunlap, Edgar C., assignor.)						
Kimball, Frank C., Salem, assignor of one-half to W. H. Hutchinson, Lynn, Mass. Leather-staking machine	638,250	Dec. 5	93	21, 22	89	1884
Kimball, J. Curtis. (See Morgan, John B., assignor.)						
Kimball, James L., Mountain Iron, Minn. Sash-holder	639,058	Dec. 12	1592	366	89	2196
Kimball, Lucian A., Providence, R. I. Self-reefing sail for canoes, &c	637,619	Nov. 21	3045	629	89	1606
Kimball, Richard D., Malden, Mass., and A. A. McKenzie, Hanover, N. H. Conduit	638,931	Dec. 12	1380	315	89	2155
Kimberlin, David D., Hudson, Ohio. Potato-bug destroyer	626,912	June 13	1317	290	87	1887
Kimberly, George D., assignor to M. K. Lines, New Haven, Conn. Machine for rolling sheet-metal ridge-strips	626,617	June 6	706	163	87	1752
Kimble, Edwin R. (See Gordon, William H., assignor.)						
Kimm, Henry W., Jobes, Iowa. Trace-supporter	633,649	Sept. 26	2740	638	88	2284
Kimman, Henry J., Chicago, Ill. Fluid-pressure engine	639,737	Dec. 26	2868	660, 661	89	2483
Kimman, Henry J., assignor of one-half to E. N. Hurley, Chicago, Ill. Portable pneumatic drill	630,357	Aug. 8	1184	260, 261	88	971
Kimman, Henry J., assignor of one-half to E. N. Hurley, Chicago, Ill. Portable pneumatic rotary drill	639,738	Dec. 26	2871	661, 662	89	2484
Kimsey, James C., Philadelphia, Pa. Combined skirt-supporter and waist-holder	636,149	Oct. 31	4116	942	89	872

Alphabetical list of patentees—Continued.

Name, residence, and invention.	No.	Date.	Monthly volume.		Official Gazette.	
			Spec.	Dr'g.	Vol.	Page.
Kincaid, William C., Corrie Bank, Scotland. Roller for window-blinds, sunshades, &c	638,969	Dec. 12	1444	330	89	2169
Kincheloe, Charles F., Quincy, Ill. Horse-detacher and vehicle-guide	618,419	Jan. 31	3002	664	86	648
Kindel, George J., Denver, Colo. Tape-needle	636,728	Nov. 7	912	202	89	1109
Kindig, James C., Kansas City, Mo. Violin	629,374	July 25	2646	614	88	570
Kindmann, Heinrich, New York, N. Y. Button	631,216	Aug. 15	2760	624	88	1299
Kindsfatter, Carl L., East Liverpool, Ohio. Bicycle-brake	637,128	Nov. 14	1749	375	89	1296
Kindsfatter, Carl L., East Liverpool, Ohio. Crank	639,059	Dec. 12	1594	366	89	2196
Kindt, Wilson A., Trenton, N. J. Handsaw	619,079	Feb. 7	534	112	86	914
King, Alvin S. (See Schlumberger, Robert, assignor.)						
King, Charles, Grand Rapids, Mich. Carpet-sweeper	626,466	June 6	459	108	87	1703
King, Charles, Grand Rapids, Mich. Carpet-sweeper	636,002	Oct. 31	3821	878	89	813
King, Charles, assignor of one-half to W. E. Moore, Grand Rapids, Mich. Carpet-sweeper	619,580	Feb. 14	1417	326	86	1104
King, Charles B., Jr., assignor to T. C. King, E. N. B. Donisthorpe, and H. G. Latilla, London, England. Means for holding and raising carriage-windows	630,716	Aug. 8	1868	422	88	1099
King, Charles C. (See Hunt and King.)						
King, Charles C., Montpelier, Ind. Animal-trap	638,847	Dec. 12	1228	277	89	2125
King, Charles K., and G. A. Mead, Mansfield, Ohio. Insulated rail-support	628,667	July 11	1375	321	88	285
King, Charles T. (See Smith, Warren, assignor.)						
King, Charles T., assignor to Glouster Supply Company, Cincinnati, Ohio. Holder	620,145	Feb. 28	2478	562	86	1349
King, Charles W., Kalamazoo, Mich. Flash-light device	637,800	Nov. 28	3367	706	89	1690
King, Clarence A. (See Stewart and King.)						
King, Clinton E., Quincy, Ill. Steam-boiler cleaner	618,465	Jan. 31	3073	681	86	661
King, Cyprian J. (See Beman, Herbert D., assignor.)						
King Fastener Company. (See King, Phineas F., assignor.)						
King, Ferdinand, assignor to Rex Mineral Spring Company, New York, N. Y. Means for extracting articles from their boxes, cans, or other containers	631,078	Aug. 15	2533	574	88	1255
King, Frank, assignor to J. I. Courtenay, London, England. Manufacture of elements for secondary batteries	625,566	May 23	2926	665	87	1330
King, Frank M., and P. W. Egan, Cleveland, Ohio. Cone and ball-bearing	616,937	Jan. 3	147	32	86	29
King, Frank W., New Kensington, Pa. Non-refillable bottle	628,716	July 11	1455	338	88	303
King, Fred L. (See Dover and King.)						
King, George W., Marion, Ohio. Excavator	635,047	Oct. 17	1959	464, 465	89	423
King, George W., Marion, Ohio. Derrick and excavator	635,048	Oct. 17	1964	465	89	424
King, Harry L., Spokane, Wash. Nose-guard for eyeglasses	633,382	Sept. 19	2248	529	88	2175
King, Henry, St. Leonards, England. Time-check	634,983	Oct. 17	1847	438, 439	89	400
King, Henry C. (See Dillon, Irwin P., assignor.)						
King, Henry C. (See Dillon, Peter, assignor.)						
King, Herbert S., Hartford, Conn. Cover and detachable pad	630,717	Aug. 8	1870	422	88	1100
King, Hesden P., Glens Falls, N. Y. Puzzle-box	627,507	June 27	2413	530	87	2139
King, Jesse H., assignor to V. A. Lennep, Escatawpa, Miss. Cloth-measuring device	637,620	Nov. 21	3049	629, 630	89	1607
King, Joseph D., and M. A. Burns, Menominee, Mich. Adjustable handle-bar	635,689	Oct. 24	3193	736	89	678
King, Leonidas E., Marshalltown, Iowa. Ribbon-fraying machine	627,508	June 27	2414	530, 531	87	2140
King, Louis R., Philadelphia, Pa. Spring-motor	632,465	Sept. 5	464	105	88	1798
King, Oscar L. (See Burr, John A., assignor.)						
King, Oscar L. (See Burr, William F., assignor.)						
King, Phineas F., Chicago, Ill., assignor to King Fastener Company. Fastening device	635,858	Oct. 31	3535	812	89	757
King, Phineas F., assignor to King Fastener Company, Cleveland, Ohio. Lacing-hook	635,859	Oct. 31	3537	812	89	757
King, Richard W., Wichita, Kans. Railway-switch	620,146	Feb. 28	2479	563	86	1349
King, Robert F., Bozeman, Mont. Neck-yoke	631,264	Aug. 15	2861	646	88	1320
King, Samuel S., Sunbury, Pa. Rail-joint	639,060	Dec. 12	1595	366	89	2197
King, Sidney D., Dunmore, Pa. Side bearing for railway-cars	630,358	Aug. 8	1188	261	88	973
King, Theodore J., and A. O. Babendreier, Washington, D. C. Railway	623,248	Apr. 18	1943	445	87	407
King, Theodore J., and A. O. Babendreier, Washington, D. C. Railway	623,249	Apr. 18	1946	445, 446	87	408
King, Theodore J., and A. O. Babendreier, Washington, D. C. Railway	623,250	Apr. 18	1949	446	87	408
King, Theodore J., and A. O. Babendreier, Washington, D. C. Railway	629,568	July 25	3004	701	88	640
King, Theophilus, trustee. (See Kempshall, Eleazer, assignor.)						
King, Thomas C., *et al.* (See King, Charles B., Jr., assignor.)						
King, William B., Willoughby, Ohio. Trolley catcher and retainer	619,316	Feb. 14	983	221	86	1022
King, William H. K., Carthage, Mo. Electrical regulator	620,783	Mar. 7	458	94, 95	86	1591
King, William N., *et al.* (See Wescott, Pulaski D., assignor.)						
King, William S., assignor of one-half to R. A. Barlow, Richmond, Ky. Wire-stretcher	639,815	Dec. 26	3019	695	89	2514
Kingan, James B., Blue Island, Ill. Oil-distributing device for slide-valves	629,081	July 18	2121	494	88	451
Kingsbury, Eugene H., Cloverport, Ky. Stovepipe-cleaner	628,474	July 11	983	227	88	210
Kingsbury, Harry T., Keene, N. H. Repair and assembling jack	619,186	Feb. 7	742	161	86	957
Kingsbury, Harry T., Keene, N. H. Toy	619,759	Feb. 21	1768	406	86	1198
Kingsbury, Jesse H. (See Harrison and Brown, assignors.)						
Kingscote, Ernest, London, England. Manufacture of artificial material	632,723	Sept. 12	991	------	88	1917
Kingsland & Douglas Manufacturing Company. (See Schulze, Andrew, assignor.)						
Kingsland, James S., Buffalo, N. Y. Rotary engine	625,689	May 23	3125	710, 711	87	1369
Kingsland, Oliver H., New York, N. Y., assignor to H. B. Newhall, Plainfield, N. J. Door-binder	630,811	Aug. 8	2030	458	88	1133
Kingsland, Philip S., St. Louis, Mo. Car-brake	636,672	Nov. 7	801	177, 178	89	1084
Kingsley, George, Montreal Canada. Boiler	633,853	Sept. 26	3095	718	88	2356
Kingsley, Willey J. P., Rome, N. Y. Skylight	624,342	May 2	729	162	87	840
Kingston, James L., Boston, Mass. Fastener	625,567	May 23	2928	665	87	1330
Kiniry, James W., Beloit, Kans. Acetylene-gas generator	622,492	Apr. 4	549	128, 129	87	104
Kinkead, James H., Virginia City, Nev. Rock crusher and grinder	630,511	Aug. 8	1510	338	88	1030
Kinman, Jesse S. P., Dillon, Ill. Folding gate	639,401	Dec. 19	2251	519	89	2342
Kinnaman, Edward H., and B. F. Flowers, Fort Collins, Colo. Bell door-knob. (Reissue)	11,721	Mar. 7	628	137	86	1626
Kinnard Manufacturing Company. (See Kinnard, Will M., assignor.)						
Kinnard Manufacturing Company. (See Knobeloch, Frank, assignor.)						
Kinnard, Will M., Dayton, Ohio. Paper vessel	631,852	Aug. 29	3944	882	88	1560
Kinnard, Will M., assignor to Kinnard Manufacturing Company, Dayton, Ohio. Paper vessel	616,938	Jan. 3	148	33	86	30
Kinnard, Will M., assignor to Kinnard Manufacturing Company, Dayton, Ohio. Paper vessel	616,939	Jan. 3	150	33	86	30
Kinnard, Will M., assignor to Kinnard Manufacturing Company, Dayton, Ohio. Paper vessel	617,401	Jan. 10	1045	237	86	222

Alphabetical list of patentees—Continued.

Name, residence, and invention.	No.	Date.	Monthly volume.		Official Gazette.	
			Spec.	Dr'g.	Vol.	Page.
Kinnard, Will M., assignor to Kinnard Manufacturing Company, Dayton, Ohio. Paper vessel	634,644	Oct. 10	1239	294	89	263
Kinne, Theodore Y., Paterson, N. J. Compressible tube	621,573	Mar. 21	1913	427	86	1896
Kinnear Manufacturing Company. (See Martindale, Edward S., assignor.)						
Kinnear, William R., Columbus, Ohio. Fireproof curtain	621,421	Mar. 21	1627	361	86	1842
Kinnear, William R., Columbus, Ohio. Horseshoe-calk	631,961	Aug. 29	4125	929	88	1595
Kinner, Otto, St. Louis, Mo. Valve	624,821	May 9	1611	365	87	1036
Kinner, Otto, St. Louis, Mo. Engine	635,690	Oct. 24	3195	736	89	678
Kinney, Amos P., and E. Vaughan, Boston, Mass. Steam-engine indicator	618,420	Jan. 31	3003	665	86	648
Kinney, Don. (See Alspaugh, Orlando C., assignor.)						
Kinney, Frank W., assignor to Calumet Rubber Tire Company, Chicago, Ill. Elastic tire for vehicles	627,823	June 27	2995	654	87	2255
Kinney, Frank W., assignor, by mesne assignments, to Calumet Tire Rubber Company, Chicago, Ill. Joint-fastener for tire wires or bands	640,000	Dec. 26	3348	766	89	2580
Kinney, George K., Chicago, Ill., and S. L. Trueblood, Weldon, N. C. Railway-tie plate	631,873	Aug. 29	3978	890	88	1567
Kinney, Harry W. (See Williams and Kinney.)						
Kinney, Israel, Burford, Canada. Boot or shoe cleaner	625,932	May 30	3608	820	87	1480
Kinney, Jacob B. (See Laube and Kinney.)						
Kinney, Jay F., Evanston, Ill. Broom-handle	618,466	Jan. 31	3074	681	86	661
Kinney, John C., San Antonio, Tex. Prepayment mechanism for electric meters	619,187	Feb. 7	743	161, 162	86	957
Kinney, John L., assignor to E. C. Holt, S. I. Moore, and H. C. Fowler, Burlington, N. C. Loom-shuttle	636,207	Oct. 31	4224	972	89	894
Kinney, Richard R., Kalamazoo, assignor of one-half to W. L. Barth, Coldwater, Mich. Burial apparatus	630,459	Aug. 8	1420	318	88	1013
Kinney, Thomas P. (See Williams and Kinney.)						
Kinraide, Thomas B., Boston, Mass. Electrical apparatus	619,760	Feb. 21	1769	406	86	1198
Kinraide, Thomas B., Boston, Mass. Dynamo-electric machine	619,761	Feb. 21	1772	406, 407	86	1198
Kinraide, Thomas B., Boston, Mass. Induction apparatus	623,316	Apr. 18	2071	475, 476	87	434
Kinraide, Thomas B., Boston, Mass. Electrical break	623,317	Apr. 18	2076	476	87	434
Kinraide, Thomas B., Boston, Mass. Electrical spark-gap	623,318	Apr. 18	2079	476	87	435
Kinsbourg, Georges, Remiremont, France. Lappet-loom	637,129	Nov. 14	1750	375	89	1297
Kinsell, James L., Belle Plaine, Iowa. Punching and riveting machine	630,359	Aug. 8	1190	262	88	973
Kinsey, Ernest U., New York, N. Y. Latch for boxes, &c.	621,574	Mar. 21	1914	428	86	1896
Kinsey, Ernest U., New York, N. Y. Cabinet for phonograph-cylinders	626,543	June 6	593	136	87	1729
Kinsey, George A., New York, N. Y. Seat for market-wagons	625,690	May 23	3128	711	87	1370
Kinsey, Jacob M., and F. P. W. Young, assignors of one-fourth to O. M. Kinsey, St. Louis, Mo. Rail-joint nut-lock	617,579	Jan. 10	1373	311	86	286
Kinsey, Oliver M. (See Kinsey and Young, assignors.)						
Kinsey, Thomas J., Ogleville, Ind. Tie for packages	627,195	June 20	1803	395	87	2002
Kinsey, Warren, Peoria, Ill. Car-heating system	633,140	Sept. 19	1777	419	88	2083
Kinsley, John C., Chicago, Ill. Stake-pocket	616,940	Jan. 3	152	34	86	30
Kintner, Alcuin E., Painesville, Ohio. Picture-frame	630,240	Aug. 1	945	207	88	909
Kintner, Amzi, and D. Bonham, Rutledge, Mo. Track-jack	637,801	Nov. 28	3368	706	89	1690
Kintner, John B., Madisonburg, Ohio. Weeder	624,946	May 16	1837	412, 413	87	1097
Kintz, Herbert, assignor of one-half to J. Milbert, Sharpsburg, Pa. Car-truck	626,211	May 30	4208	957	87	1591
Kintz, Lewis, Cumberland, Md. Brake	637,003	Nov. 14	1498	322	89	1250
Kinzer, Augustus W. (See Overall, John A., assignor.)						
Kip-Armstrong Company. (See Baker and Kip, assignors.)						
Kip-Armstrong Company. (See Kip, Frederic E., assignor.)						
Kip, Frederic E. (See Baker and Kip.)						
Kip, Frederic E., *et al.* (See Chace, Malcolm G., assignor.)						
Kip, Frederic E., Montclair, N. J., assignor to Kip-Armstrong Company, of New York. Electrical warp stop-motion for looms	621,575	Mar. 21	1915	428	86	1897
Kippels, Bruno, Moorehead, Minn. Clothes-drier	635,553	Oct. 24	2953	675	89	630
Kirberg, Jakob E., Philadelphia, Pa., assignor to Hensel, Colladay Company, of Pennsylvania. Machine for making braid of variable widths	621,099	Mar. 14	1061	231	86	1719
Kirby, Abner S., Fredericktown, Ohio. Spectacle-case holder	617,962	Jan. 17	2100	471	86	450
Kirby, Fitz A., Wyandotte, Mich. Pneumatic hammer or riveter	639,739	Dec. 26	2874	662	89	2485
Kirby, George E., and H. W. Crowther, Exeter, England. Rotary engine	632,816	Sept. 12	1163	266, 267	88	1953
Kirby, Henry M., Keokuk, Iowa. Refrigerator	628,888	July 11	1758	411	88	362
Kirby, John, Jr., Dayton, Ohio, assignor to Dayton Manufacturing Company. Seat-raising device	619,894	Feb. 21	2034	461	86	1249
Kirby, John, Jr., assignor to Barney & Smith Car Company, Dayton, Ohio. Car-seat	630,290	Aug. 1	1028	227	88	925
Kirby, John C., New York, N. Y. Toast-holder	639,740	Dec. 26	2877	662	89	2486
Kirby, Stephen R., New York, N. Y. Astronomical scale	627,427	June 20	2266	500	87	2095
Kircher, Andrew, Chicago, Ill. Casket-carrier	626,432	June 6	403	95	87	1692
Kircher, Andrew, Chicago, Ill. Casket-carrier	631,574	Aug. 22	3443	778	88	1453
Kirchhoff, Harry, assignor to Actien-Gesellschaft für Anilin Fabrikation, Wolfen, Germany. Red dye	617,963	Jan. 17	2101	------	86	450
Kirchhoff, Richard, and E. Haussmann, assignors to Actien-Gesellschaft für Anilin Fabrikation, Berlin, Germany. Black sulfur dye	635,168	Oct. 17	2206	------	89	470
Kirchhoff, Richard, and E. Haussmann, assignors to Actien-Gessellschaft für Anilin Fabrikation, Berlin, Germany. Black sulfur dye	635,169	Oct. 17	2207	------	89	470
Kirchhoff, William, Dayton, Ohio. Bung for beer-barrels	633,519	Sept. 19	2472	582	88	2219
Kirchhoffer, George W., New York, N. Y. Bracket	622,370	Apr. 4	298	69	87	57
Kirchner & Co. (See Preissler, Ernst O., assignor.)						
Kirchner, Josef, *et al.* (See Bachmann and Vogt, assignors.)						
Kirk, Benjamin H., Chicago, Ill. Tape-measure	628,475	July 11	984	228	88	210
Kirk, Joseph H., and J. W. Jeffs, Birmingham, England. Junction of cycle, motor-car, or other frames, &c.	628,476	July 11	985	228	88	210
Kirk-Latty Manufacturing Company. (See Latty and Sleffel, assignors.)						
Kirk, Lewis A., Valparaiso, Ind. Door-hanger track	617,027	Jan. 3	314	74	86	63
Kirk, Peter, Kirkland, Wash. Hydraulic dredge	632,126	Aug. 29	4450	1001, 1002	88	1660
Kirk, Robert, Hartwell, Ohio. Clamping-bench for ice-cream freezers	624,343	May 2	730	162	87	840
Kirkaldy, William, Glasgow, Scotland. Revolving cylindrical bulkhead-door	626,327	June 6	208	51	87	1653
Kirker-Bender Fire Escape Company. (See Logan, William H., assignor.)						
Kirker, Lowry S., Pittsburg, Pa. Gas-engine	627,338	June 20	2073	457, 458	87	2057

Alphabetical list of patentees—Continued.

Name, residence, and invention.	No.	Date.	Monthly volume.		Official Gazette.	
			Spec.	Dr'g.	Vol.	Page.
Kirkham, Hulett & Chandler. (See Chandler, Samuel, Jr., and J., assignors.)						
Kirkland, Asa H. (See Weimer and Kirkland.)						
Kirkland, Boyd W. (See Kirkland and Feckenscher.)						
Kirkland, Charles W. and B. W., Hudson, Ind., and F. C. Feckenscher, Detroit, Mich. Display-rack	635,325	Oct. 24	2485	577	89	539
Kirkland, John V. and R. S., South Fulton, Tenn. Foot-warmer	619,045	Feb. 7	470	98	86	901
Kirkland, Robert S. (See Kirkland, John V. and R. S.)						
Kirkman, Arthur. (See Everett and Kirkman.)						
Kirkman, James W., Baltimore, Md. Back-band buckle	622,155	Mar. 28	3004	679	86	2126
Kirkman, James W., Baltimore, Md. Back-band buckle	627,339	June 20	2075	458	87	2058
Kirkpatrick, Frank C., Smithville, Miss. Churn	639,061	Dec. 12	1598	366	89	2197
Kirkpatrick, George W. (See Corser, Edson J., assignor.)						
Kirkpatrick, George W., assignor to Bickford & Huffman Company, Macedon, N. Y. Grain-drill	617,102	Jan. 3	466	112	86	92
Kirkpatrick, William B., Canton, Ohio. Hay-loader	622,859	Apr. 11	1215	283	87	250
Kirkpatrick, William J. (See Cleave, Charles, assignor.)						
Kirkpatrick, William P., Arrowsmith, Ill. Loom	622,810	Apr. 11	1126	261	87	233
Kirkscey, Foster G. (See Johnson and Kirkscey.)						
Kirkwood, Israel S., Chicago, Ill. Dental appliance	618,421	Jan. 31	3006	665	86	649
Kirkwood, Israel S., Chicago, Ill. Cotton-box for dentists	619,188	Feb. 7	748	162	86	958
Kirlin, Samuel, Watertown, S. D. System of electrical distribution	617,165	Jan. 3	589	138	86	115
Kirschbaum, John, assignor to Novelty Manufacturing Company, Waterbury, Conn. Spring-carrier for lamps	621,823	Mar. 28	2390	534	86	2005
Kirschen, Paul, assignor to Lingner & Kraft, Dresden, Germany. Means for closing bottles or the like	634,622	Oct. 10	1209	287	89	257
Kirschenhofer, George, Baltimore, Md. Fire-escape device	626,812	June 13	1091	245	87	1843
Kirschner, Carl, Darmstadt, Germany. Bottle-washing apparatus	617,341	Jan. 10	929	214	86	200
Kirshner, Michael, Salem, Va. Cigarette-machine	621,349	Mar. 21	1512	336 337	86	1820
Kirschner, Theodor, Ludwigsburg, Germany. Ribbon or band sawing apparatus	639,402	Dec. 19	2253	520	89	2342
Kirschning, Hermann, Berlin, Germany. Packing for stuffing-boxes	637,130	Nov. 14	1752	376	89	1297
Kirstein, Henry E., Rochester, N. Y. Case for eyeglasses or spectacles	636,811	Nov. 14	1113	238	89	1173
Kirstein, Louis E., Boston, Mass. Eyeglasses	627,196	June 20	1804	396	87	2003
Kirtland, Albert G., New York, N. Y. Shoe-holding device	620,658	Mar. 7	218	45	86	1544
Kissam, Daniel T., New York, N. Y. Pocket safety attachment	630,544	Aug. 8	1577	352	88	1043
Kissinger, Amos, and W. C. Matthias, Reading, Pa. Toy	619,762	Feb. 21	1773	407	86	1199
Kissinger, James M., Pottsville, Pa. Nut-lock	622,895	Apr. 11	1290	297	87	263
Kissinger, Victor T., and A. Trunkell, Chicago, Ill. Electric signal system	629,792	Aug. 1	55	15	88	731
Kissinger, William, Jackson, Wis. Adjustable wagon-gate lock	622,049	Mar. 28	2812	634	86	2087
Kister, Henry, Morrison, Mo. Self-feeder for threshing-machines	624,822	May 9	1613	366	87	1037
Kitchel, Simon B., Coldwater, Mich. Cartridge implement	620,330	Feb. 28	2805	640	86	1410
Kitchen, George C., assignor of two-thirds to F. D. Glover, Austin, Tex. Boiler-flue-cleaning device	630,545	Aug. 8	1578	352	88	1043
Kitchen, Helen, *et al.* (See Cornwall, George, assignor.)						
Kitchen, John G. A., assignor to Manchester Cycle Components Company, Limited, Manchester, England. Gas-burner	620,147	Feb. 28	2480	563	86	1349
Kitchen, John G. A., assignor to Manchester Cycle Components Company, Limited, Manchester, England. Acetylene-generator	620,148	Feb. 28	2481	563	86	1349
Kitchen, John G. A., assignor to Manchester Cycle Components Company, Limited, Manchester, England. Acetylene-lamp	620,149	Feb. 28	2483	564	86	1349
Kitchen, Joseph M. W., East Orange, N. J. Receptacle for orchids	620,150	Feb. 28	2484	564 565	86	1350
Kitchen, Marshall D., Chicago, Ill. Cloth-cutter	633,321	Sept. 19	2134	500 501	88	2154
Kitchen, William W., Rochester, N. Y. Vehicle-wheel	623,405	Apr. 18	2230	511	87	465
Kithcart, Eugene E., and B. W. Warner, Kansas City, Mo. Separator	631,371	Aug. 22	3051	691	88	1375
Kitsee, Isidor, Philadelphia, Pa. Bleaching sugar-juice	637,004	Nov. 14	1499	------	89	1250
Kitsee, Isidor, Philadelphia, Pa. Electric fuse	640,001	Dec. 26	3349	766	89	2580
Kitson, Arthur, Philadelphia, Pa., assignor to Kitson Hydrocarbon Heating and Incandescent Lighting Company, of West Virginia. Vapor-burning apparatus	617,687	Jan. 10	1566	355	86	324
Kitson, Arthur, Philadelphia, Pa., assignor to Kitson Hydrocarbon Heating and Incandescent Lighting Company, Philadelphia, Pa., and Charleston, W. Va. Vapor-burning apparatus	621,966	Mar. 28	2674	602	86	2059
Kitson, Arthur, Philadelphia, Pa., assignor to Kitson Hydrocarbon Heating and Incandescent Lighting Company, Philadelphia, Pa., and Charleston, W. Va. Vapor-burning apparatus	624,823	May 9	1614	366	87	1037
Kitson, Arthur, Philadelphia, Pa., assignor to Kitson Hydrocarbon Heating and Incandescent Lighting Company, of West Virginia. Vapor-burning apparatus	625,775	May 30	3304	750	87	1422
Kitson, Arthur, Philadelphia, Pa., assignor to Kitson Hydrocarbon Heating and Incandescent Lighting Company, Philadelphia, Pa., and Charleston, W. Va. Vapor-burning apparatus	626,282	June 6	117	30	87	1636
Kitson, Arthur, Philadelphia, Pa., assignor to Kitson Hydrocarbon Heating and Incandescent Lighting Company, Philadelphia, Pa., and Charleston, W. Va. Vapor-burning apparatus	632,492	Sept. 5	513	117	88	1809
Kitson, Arthur, Philadelphia, Pa., assignor to Kitson Hydrocarbon Heating and Incandescent Lighting Company, Philadelphia, Pa., and Charleston, W. Va. Vapor-tube cleaner	632,493	Sept. 5	517	118	88	1809
Kitson, Arthur, Philadelphia, Pa., assignor to Kitson Hydrocarbon Heating and Incandescent Lighting Company, Philadelphia, Pa., and Charleston, W. Va. Vapor-burning apparatus	632,494	Sept. 5	518	118	88	1809
Kitson, Arthur, Philadelphia, Pa., assignor to Kitson Hydrocarbon Heating and Incandescent Lighting Company, Philadelphia, Pa., and Charleston, W. Va. Vaporizing-tube	632,495	Sept. 5	520	118	88	1810
Kitson, Arthur, Philadelphia, Pa., assignor to Kitson Hydrocarbon Heating and Incandescent Lighting Company, Philadelphia, Pa., and Charleston, W. Va. Vapor-lamp igniter	632,496	Sept. 5	521	119	88	1810
Kitson, Arthur, Philadelphia, Pa., assignor to Kitson Hydrocarbon Heating and Incandescent Lighting Company, Philadelphia, Pa., and Charleston, W. Va. Mantle-holder	632,497	Sept. 5	522	119	88	1810
Kitson, Arthur, Philadelphia, Pa., assignor to Kitson Hydrocarbon Heating and Incandescent Lighting Company, Philadelphia, Pa., and Charleston, W. Va. Vaporizing-tube	632,498	Sept. 5	523	119	88	1811
Kitson, Arthur, Philadelphia, Pa., assignor to Kitson Hydrocarbon Heating and Incandescent Lighting Company, Philadelphia, Pa., and Charleston, W. Va. System for distributing fluid under pressure	632,499	Sept. 5	524	120 121	88	1811
Kitson, Arthur, Philadelphia, Pa., assignor to Kitson Hydrocarbon Heating and Incandescent Lighting Company, Philadelphia, Pa., and Charleston, W. Va. Suspension apparatus	632,500	Sept. 5	526	121	88	1811

Alphabetical list of patentees—Continued.

Name, residence, and invention.	No.	Date.	Monthly volume. Spec.	Monthly volume. Dr'g.	Official Gazette. Vol.	Official Gazette. Page.
Kitson, Arthur, Philadelphia, Pa., assignor to Kitson Hydrocarbon Heating and Incandescent Lighting Company, Philadelphia, Pa., and Charleston, W. Va. Combined gas and vapor burning chandelier	632,652	Sept. 5	810	188	88	1868
Kitson, Arthur, Philadelphia, Pa., assignor to Kitson Hydrocarbon Heating and Incandescent Lighting Company, Philadelphia, Pa., and Charleston, W. Va. Vaporizing-tube	635,554	Oct. 24	2954	675	89	631
Kitson, Arthur, Philadelphia, Pa., assignor to Kitson Hydrocarbon Heating and Incandescent Lighting Company, Charleston, W. Va. Vaporizing-tube	637,468	Nov. 21	2394	519	89	1439
Kitson Hydrocarbon Heating and Incandescent Lighting Company. (See Kitson, Arthur, assignor.)						
Kittredge, Henry G. W. (See Boote and Kittredge.)						
Kitzing, George J., Indianapolis, Ind. Combined sprinkler and nozzle	619,189	Feb. 7	749	162	86	958
Kjellén, John, New York, N. Y. Spinning-top	620,151	Feb. 28	2485	565	86	1350
Kjerner, Ragnar L., Boston, assignor of one-half to G. H. Graves, Malden, Mass. Valve	630,360	Aug. 8	1192	262	88	973
Klaber, Herman. (See Paulson, Hans, assignor.)						
Klahn, Emil, West Hoboken, N. J. Ball-bearing	624,219	May 2	501	107	87	795
Klahn, Emil, West Hoboken, assignor of one-half to G. E. Strauss, Plainfield, N. J. Pedal for foot-driven machines	620,784	Mar. 7	462	95	86	1592
Klahre, Gustav, Chicago, Ill. Pipe-trimmer	624,051	May 2	186	40	87	738
Klatt, August. (See Wuest and Klatt.)						
Klatt, Reinhold, assignor of one-half to T. M. Broderick, Strong City, Kans. Wrench	620,785	Mar. 7	463	95	86	1592
Klatt, Reinhold, assignor of one-half to T. M. Broderick, Strong City, Kans. Wagon-standard	632,127	Aug. 29	4453	1002	88	1660
Klatt, Reinhold, assignor of one-half to T. M. Broderick, Strong City, Kans. Wrench	636,673	Nov. 7	803	178	89	1085
Klawon, August, Jackson, Mich. Foot-guard for shovels	631,255	Aug. 15	2841	641	88	1316
Klay, Andrew, Bluffton, Ohio. Relief-valve for engine-cylinders	637,994	Nov. 28	3740	786	89	1765
Klay, Andrew, Bluffton, assignor of one-half to C. Weiss, Jenera, Ohio. Ratchet-drill	636,205	Oct. 31	4225	972	89	894
Kleckner, Pearl B. (See Robbins, Raymond, assignor.)						
Kleeman, Rudolph F., Racine, Wis. Satchel	621,824	Mar. 28	2391	535	86	2005
Kleese, Adam F., *et al.* (See Smith, Henry F., assignor.)						
Kleiber, Louis, Nepenskun, Wis. Bag-holder	626,788	June 13	1050	236	87	1837
Kleiman, Henry, Allegheny, Pa. Washing-machine	624,220	May 2	502	107	87	796
Klein, Adolf, New York, N. Y. Holder for pencils	631,644	Aug. 22	3555	801	88	1475
Klein, Adolph A., assignor of one-half to F. C. Kellner, Philadelphia, Pa. Window	631,256	Aug. 15	2842	641	88	1316
Klein, Alexander, Aurora, Ill., assignor to E. J. Montigny, F. E. and C. P. Stewart. Corset	639,584	Dec. 19	2574	591	89	2407
Klein, Benjamin F. (See Klein, Henry S. and B. F.)						
Klein, Carl H. von, Cleveland, Ohio. Hat or cap	625,776	May 30	3307	750	87	1423
Klein, Charles J., New York, N. Y. Distributing-panel for electric circuits	636,905	Nov. 14	1292	278	89	1209
Klein, Charles J., assignor to General Incandescent Arc Light Company, New York, N. Y. Electric switch	635,691	Oct. 24	3196	737	89	678
Klein, Eugene, Grand Rapids, Mich. Storing and shipping package	627,064	June 13	1576	344	87	1937
Klein, Frank, assignor to J. J. Thomann, Covington, Ky., and B. H. Thomann, administrator of said J. J. Thomann, deceased. Bridle-bit	637,802	Nov. 28	3371	706	89	1691
Klein, Henry S. and B. F., Milwaukee, Wis. Stamp-affixer	637,393	Nov. 21	2264	488	89	1413
Klein, Louis J., Bairdstown, Mo. Automatic wagon-brake	627,645	June 27	2685	589	87	2194
Klein, Peter W., New Orleans, La. Baker's oven	637,803	Nov. 28	3372	706	89	1691
Klein, Walter, St. Louis, Mo. Corn-planter	618,685	Jan. 31	3471	775	86	738
Klein, William, Thompsonville, Conn. Handle	617,103	Jan. 3	468	112	86	92
Kleine, F. W. (See Finch, Frederick A., assignor.)						
Kleiner, Ferdinand. (See Schellinger and Kleiner.)						
Kleiner, Joseph E., Watertown, and L. Parkinson, Fox Lake; said Parkinson assignor to said Kleiner; said Kleiner assignor of one-half to F. E. Woodard, Watertown, Wis. Store furniture	617,292	Jan. 3	821	191	86	162
Kleinert, Isaac B., New York, N. Y., assignor to I. B. Kleinert Rubber Company, of West Virginia. Garment-forming apparatus	628,434	July 4	900	211	88	173
Kleinfelder, William G., Chicago, Ill. Tool-stock	632,312	Sept. 5	194	44	88	1745
Kleinfeldt, Arthur, New York, N. Y. Pressure-regulator	638,251	Dec. 5	95	22	89	1884
Kleinschmidt, Gustav, and L. Kreuder, Mühlhausen Thuringia, Germany. Corset-closure	628,335	July 4	732	169	88	141
Kleinstuber, John, New York, N. Y. Purse or bag frame	618,686	Jan. 31	3473	776	86	738
Kleinsteuber, Monroe A., assignor of two-thirds to E. Porth and H. P. Andrae, Milwaukee, Wis. Bicycle handle-bar	631,645	Aug. 22	3556	802	88	1476
Klemenz, John, Louisville, Ky. Lace-curtain stretcher	636,812	Nov. 14	1114	238	89	1174
Klemm, Emil R., Chicago, Ill. Bottle-filling machine	632,724	Sept. 12	991	229, 230	88	1917
Klemm, Hermann A., New York, N. Y. Overedge sewing-machine	618,687	Jan. 31	3474	776	86	738
Klemm, Lawrence J., Allegheny, Pa. Apparatus for ringing gongs	634,005	Oct. 3	44	13	89	12
Klemme, Louis, Jr., assignor of one-half to J. D. Hess, Pittsfield, Ill. File-case	635,555	Oct. 24	2955	676	89	631
Klimek, Johann, Mokrau, Germany. Air-mixing drum for forges	625,568	May 23	2930	665	87	1331
Klimont, Isidor, Vienna, Austria-Hungary. Making ionon	637,209	Nov. 14	1907	------	89	1326
Klimont, Isidor, and O. Nagel, Vienna, Austria-Hungary. Refining fats	637,131	Nov. 14	1753	376	89	1297
Klinck, Frederick W., Albany, N. Y. Fire-escape	636,264	Nov. 7	69	16, 17	89	937
Kline, Albert H., assignor of one-half to W. F. Cramer, Catawissa, and J. Straub, Philadelphia, Pa. Edge setting and burnishing machine	619,963	Feb. 21	2146	486, 487	86	1270
Kline, Charles D. (See Prendergast, William H., assignor.)						
Kline, Charles L., New York, N. Y. Car-washing apparatus	636,906	Nov. 14	1293	279	89	1210
Kline, Charles L., and Charles L., Jr., New York, N. Y. Mechanical movement	632,725	Sept. 12	994	230, 231	88	1918
Kline, David C., Rochester, N. Y. Mail-box	635,965	Oct. 31	3733	863	89	794
Kline, Frank H. (See Dempster, Kline, and Sleister.)						
Kline, George B., Pittsburg, Pa. Rail-tie fastener	636,003	Oct. 31	3822	879	89	813
Kline, Jacob Y. (See Hostetter and Kline.)						
Kline, John. (See Longfield and Kline.)						
Kline, John, assignor of one-half to E. Schweppenhiser and H. G. Gruver, Mifflinville, Pa. Combined rail-joint and metallic cross-tie	629,860	Aug. 1	195	45	88	759
Kline, John A., Reading, Pa. Letter-box	634,006	Oct. 3	45	14	89	13
Kline, John A., assignor to Reading Stove Works, Orr, Painter & Co., Reading, Pa. Drop-shelf	629,299	July 18	2488	580	88	519
Kline, John A., assignor to Reading Stove Works, Orr, Painter & Co., Reading, Pa. Grate-operating mechanism	631,746	Aug. 22	3747	841	88	1510
Kline, Simon, *et al.* (See Westwood, John T., assignor.)						
Kling, Orlando, Denver, Colo. Desk-calendar	617,832	Jan. 17	1866	417	86	403
Kling, Peter M., St. Louis, Mo. Car-seat	621,825	Mar. 28	2393	535	86	2005
Kling, Peter M., St. Louis, Mo. Car-truck	621,826	Mar. 28	2394	535	86	2006

Alphabetical list of patentees—Continued.

Name, residence, and invention.	No.	Date.	Monthly volume.		Official Gazette.	
			Spec.	Dr'g.	Vol.	Page.
Klingeberg, Frederick, *et al.* (See Buckingbam, Albert E., assignor.)						
Klingler, Paul G. (See Garis, Cornelius W., assignor.)						
Klintberg, Carl A., Norrkjöping, Sweden. Draftsman's curve	629,569	July 25	3006	702	88	640
Klipp, Jobn J., *et al.* (See White, Cornelius A., assignor.)						
Klopp, George O. H., London, England, Cock	639,403	Dec. 19	2254	520	89	2342
Klose, Alois. (See Klose, Robert and A.)						
Klose, Robert and A., Hastings, Nebr. Combined kiln and drying tunnel	622,238	Apr. 4	69	16	87	16
Klossner, Frederick C. (See Lauer and Klossner.)						
Klostermyer, C. J. H. (See Goodwin, Hiland, assignor.)						
Klotter, George H. (See Hoff and Klotter.)						
Klotz, Otto, Chicago, Ill. Handle for covers for vessels	629,793	Aug. 1	57	15	88	732
Kluge, Franz, assignor to E. Greeff, Barmen, Germany. Apparatus for combustion of fuel	626,386	June 6	332	76	87	1678
Klugel, Oscar G., assignor of one-half to J. A. Kubn, Indianapolis, Ind. Sbeep-shears	631,016	Aug. 15	2407	546	88	1230
Klugh, Jacob F., Highspire, Pa. Boiler	621,350	Mar. 21	1518	337	86	1821
Klumb, Paul, Sbeboygan, Wis. Feed-cutter box	622,694	Apr. 11	935	216	87	197
Klumb, Paul, assignor to Philip Meyer Company, Sheboygan, Wis. Revolving chair	630,361	Aug. 8	1193	262	88	974
Klumpp, August, Munich, Germany. Display apparatus	633,650	Sept. 26	2742	638	88	2284
Knaack, August. (See Goeke and Knaack.)						
Knackstedt, Fritz, Cbicago, Ill. Steam-trap	622,925	Apr. 11	1340	308	87	273
Knaffl, Charles, assignor of one-tbird to H. E. Maxwell, Knoxville, Tenn. Bicycle-brake	627,934	June 27	3200	700	87	2298
Knapp, Benjamin J., St. Paul, Minn. Lubricating journal-bearing	639,250	Dec. 19	1954	450	89	2282
Knapp, Charles H., Paterson, N. J. Warping and beaming macbine	630,611	Aug. 8	1691	381	88	1066
Knapp, Charles P., Deposit, N. Y. Carpet stretcher and tacker	627,428	June 20	2267	500, 501	87	2095
Knapp, Cbarles R. (See Browne, William F , assignor.)						
Knapp, George S., Evanston, assignor of one-balf to C. Parker, Cbicago, Ill. Canteen	626,238	June 6	41	10	87	1633
Knapp, George W., Baltimore, Md. Socket for dippers	623,319	Apr. 18	2080	476	87	435
Knapp, Jeremiab R., Norwalk, Obio. Truss-pad frame	623,375	Apr. 18	2179	500	87	455
Knapp, Jeremiah R., Norwalk, Ohio. Bicycle-seat	633,322	Sept. 19	2138	501	88	2154
Knapp, Mark I., New York, N. Y. Portable cradle and carriage	630,241	Aug. 1	946	207, 208	88	909
Knapp, Matthew J., Girard, Ohio. Barrel-truck	620,331	Feb. 28	2807	641	86	1411
Knapp, Miland A., Minneapolis, Minn. Tooth-regulator	618,105	Jan. 24	2385	532	86	517
Knapp, Miland A., Minneapolis, Minn. Adjustable tootb-band	632,945	Sept. 12	1395	322	88	1996
Knapp, Willard H., Cortland, assignor of one-half to J. O. Sprague, Syracuse, N. Y. Device for hitcbing cows	618,038	Jan. 17	2242	499	86	475
Knapp, William, Cincinnati, Obio. Fifth-wheel	618,467	Jan. 31	3075	681	86	661
Knapp, William, Cincinnati, Ohio. Thill-coupling	625,956	May 30	3655	830	87	1489
Knapp, Willis, assignor of one-half to O. W. Powers, D. N. Straup, and J. Lippman, Salt Lake City, Utah. Bucket-cage for mining-cars	625,035	May 16	1978	441, 442	87	1125
Knappenberger, Clarence A., and H. H. Barnes, Jr., La Harpe, Ill. Label-cabinet	619,190	Feb. 7	751	162	86	959
Knaust, Henry E., St. Louis, Mo. Window-seat	623,675	Apr. 25	2715	622	87	578
Knauth, Karl E. F., Charlottenburg, Germany, assignor to Siemens & Halske Electric Company of America, Chicago, Ill. Means for speed reduction of asyncbronous alternating motors	621,924	Mar. 28	2584	582, 583	86	2041
Kneass, Strickland L., assignor to William Sellers & Company, Incorporated, Philadelphia, Pa. Injector	625,267	May 16	2393	543	87	1201
Knecbt, Jobn, New York, N. Y. Push-broom	628,668	July 11	1377	322	88	286
Kneeland, Charles L., and W. C. Hartmann; said Hartmann assignor to said Kneeland; said Kneeland assignor of one-half to G. W. Renyx, Lansing, Mich. Centrifugal cream-separator	621,306	Mar. 14	1429	316	86	1791
Kneeland, Edwin J., Lansing, Micb. Liner for centrifugal cream-separators	635,488	Oct. 24	2840	649	89	609
Kneeland, Remus A., Benton Harbor, Mich. Folding box	628,542	July 11	1113	259, 260	88	234
Kneen, William, London, England. Air-feeding apparatus for boiler-furnaces	628,817	July 11	1642	378, 379	88	341
Kneisly, Daniel W., Johnsville, Obio. Buggy-boot fastener	630,898	Aug. 15	2189	498	88	1187
Knell, William F., Battle Creek, Micb. Street-car brake	629,193	July 18	2318	538	88	487
Knell, William F., Battle Creek, Mich. Pump for street-car brakes	629,194	July 18	2319	538	88	487
Knepper, Harry H., assignor to American Electric Vehicle Company, Cbicago, Ill. Storage battery	631,796	Aug. 29	3855	859	88	1542
Knickerbocker, Burton D. (See Morris, Thomas W., assignor.)						
Knickerbocker Company. (See Hogeboom, Levi S., assignor.)						
Knickerbocker Trust Company. (See Paget, Leonard, assignor.)						
Kniep, Otto, Schönebeck, Germany. Machine for making heel-calks on horseshoes	622,493	Apr. 4	550	129	87	104
Kniep, Otto, Schönebeck, Germany. Machine for finishing horseshoes	637,621	Nov. 21	3051	630	89	1607
Knietsch, Rudolf, and P. Seidel, Ludwigshafen, Germany. Making indigo-red	625,268	May 16	2395		87	1201
Knigbt, Alfred W., London, England. Horseshoe-nail	639,405	Dec. 19	2256	520	89	2343
Knigbt, Charles H., Washington, D. C. Means for propelling bicycles	618,206	Jan. 24	2588	572	86	554
Knigbt, Curtis F., assignor of one-half to W. W. Morlan, Urich, Mo. Buckle	621,756	Mar. 21	2263	510	86	1966
Knigbt, Frank B., New York, N. Y. Excavating and conveying apparatus	629,695	July 25	3235	752, 753	88	684
Knight, Frank H., Washington, D. C. Sash-lock	629,261	July 18	2429	562	88	507
Knigbt, George, Brockton, Mass. Gang eyeleting-machine	627,340	June 20	2077	459	87	2058
Knight, George, Brockton, Mass. Gang eyeleting-machine	627,341	June 20	2080	460	87	2059
Knight, George, Brockton, Mass. Gang eyeleting-machine (Reissue)	11,782	Oct. 31	4285	984	89	905
Knight, George W., Hopedale, Mass., assignor to Draper Company, Hopedale, Mass., and Portland, Me. Spinning-frame	621,255	Mar. 14	1334	296	86	1773
Knight George W., and H. W. Bracken, Hopedale, Mass., assignors to Draper Company, Hopedale, Mass., and Portland, Me. End cover for spinning or twisting frames	618,358	Jan. 24	2852	634	86	604
Knigbt, George W., and H. W. Bracken, Hopedale, Mass., assignors to Draper Company, Hopedale, Mass., and Portland, Me. Spinning or twisting frame	622,649	Apr. 4	847	194	87	161
Knight, Henry T., Toronto, Canada. Device for tying bags	635,257	Oct. 17	2355	549	89	498
Knight, Hiram A., Alameda, Cal. Bottle-stopper	639,856	Dec. 26	3086	709	89	2526
Knight, Horace. (See Roe and Knight.)						
Knight, Jonathan L., Leavenworth, Kans. Perpetual calendar	633,520	Sept. 19	2473	582	88	2219
Knight, Lucien B., assignor of one-half to E. L. Carlisle, Minneapolis, Minn. Hammer	638,341	Dec. 5	291	60	89	1922
Knigbt, Samuel N., Sutter Creek, Cal. Water-wbeel-regulating apparatus	625,337	May 23	2582	576	87	1254
Knight, Walter H. (See Nixon and Knight.)						
Knight, Walter H., New York, N. Y. System of electrical distribution	621,827	Mar. 28	2395	536	86	2006
Knight, Walter H., and F. M. Landé, New York, N. Y. Subaqueous tunnel and constructing same	629,133	July 18	2218	514, 515	88	470
Knight, Will, Marquette, Wyo. Dust-pan holder	621,683	Mar. 21	2123	473	86	1939
Knigbts, Alonzo A., Melrose, Mass. Baker's oven	627,125	June 20	1691	370	87	1980

Alphabetical list of patentees—Continued.

Name, residence, and invention.	No.	Date.	Monthly volume. Spec.	Monthly volume. Dr'g.	Official Gazette. Vol.	Official Gazette. Page.
Knipe, Oliver C., Norristown, Pa. Ball-bearing	616,941	Jan. 3	153	34	86	31
Knisely, Arthur N., Industry, Kans. Corn-topper	632,269	Sept. 5	114	25,26	88	1729
Knivel, John. (See Olson, Kaiser, and Knivel.)						
Knobeloch, Frank, assignor to Kinnard Manufacturing Company, Dayton, Ohio. Paper box	618,468	Jan. 31	3077	681, 682	86	662
Knobeloch, Frank, assignor, by mesne assignments, to Kinnard Manufacturing Company, Dayton, Ohio. Paper box or lid	622,494	Apr. 4	552	129	87	104
Knobeloch, Frank, assignor to Kinnard Manufacturing Company, Dayton, Ohio. Paper box	622,495	Apr. 4	553	130	87	105
Knobeloch, Frank, assignor to Kinnard Manufacturing Company, Dayton, Ohio. Paper box	622,496	Apr. 4	554	130	87	105
Knobeloch, Frank, assignor to Kinnard Manufacturing Company, Dayton, Ohio. Paper box	634,415	Oct. 3	837	202	89	167
Knobeloch, Frank, assignor to Kinnard Manufacturing Company, Dayton, Ohio. Box	634,645	Oct. 10	1241	295	89	264
Knobeloch, Frank, assignor to Kinnard Manufacturing Company, Dayton, Ohio. Box	634,646	Oct. 10	1242	295	89	264
Knobeloch, Frank, assignor to Kinnard Manufacturing Company, Dayton, Ohio. Box	634,647	Oct. 10	1243	295, 296	89	264
Knobeloch, Frank, assignor to Kinnard Manufacturing Company, Dayton, Ohio. Paper box	636,047	Oct. 31	3895	894	89	828
Knoedler, Charles L. (See Painter and Knoedler.)						
Knoeferl, Francis, London, England. Cage or platform for use in decorating or other purposes	632,188	Aug. 29	4575	1030	88	1683
Knoll & Co. (See Vieth, Hermann, assignor.)						
Knopf, Carl, Aken, Germany. Stirrup	635,556	Oct. 24	2956	676	89	631
Knopf, Louis, Lansing, Iowa. Power-transmitting mechanism	630,899	Aug. 15	2190	498	88	1187
Knopp, Julius W., Toledo, Ohio. Attachment for wagons for loading or unloading stone	623,676	Apr. 25	2715	623	87	578
Knopp, Julius W., Toledo, Ohio. Turn-table	638,724	Dec. 12	1032	231	89	2087
Knorr, J. B. (See Davis, Robert C., assignor.)						
Knorring, Axel von, Helsingfors, Finland. Means for automatically closing bulkhead-doors	622,956	Apr. 11	1390	319, 320	87	284
Knott, Levi, Altoona, Pa. Slate-washer	632,189	Aug. 29	4576	1030	88	1683
Knowles, Arthur. (See Squire and Knowles.)						
Knowles, George, Milwaukee, Wis. Electric block system for railways	626,835	June 13	1151	256	87	1854
Knowles, James. (See Northrup and Knowles.)						
Knowles, Josiah F., Boston, Mass. Pay-roll register	622,050	Mar. 28	2813	634, 635	86	2087
Knowles, William W., New York, N. Y. Tile for partitions	621,100	Mar. 14	1063	232	86	1719
Knowlton & Beach. (See Jordan, George W., assignor.)						
Knowlton, Dallas, Washington, D. C. Match-safe. (Reissue)	11,749	June 13	1613	352	87	1945
Knowlton, Daniel S., Perry, N. Y. Wire fence	622,811	Apr. 11	1127	261	87	233
Knox, Andrew W., New York, N. Y. Gripper attachment for platen printing-presses	621,101	Mar. 14	1064	232	86	1719
Knox, Andrew W., New York, N. Y. Gripper for platen-presses	627,856	June 27	3051	667	87	2266
Knox, Charles E., *et al.* (See Durnell, Cecil M., assignor.)						
Knox, George W. (See Bowen and Knox.)						
Knox, Harry A., Springfield, Mass., assignor of four-fifths to Overman Wheel Company, Hartford, Conn., and Chicopee Falls, Mass. Gas-engine	627,857	June 27	3053	668	87	2266
Knox, Orville M., Oneida, N. Y. Digging and tamping implement	618,469	Jan. 31	3078	682	86	662
Knox, Orville M., Oneida, N. Y. Railway cross-tie	638,054	Nov. 28	3853	810	89	1787
Knox, Orville M., Oneida, N. Y. Metal base for fence-posts	638,583	Dec. 5	746	160	89	2009
Knox, Ossian D. (See Rhodes, Will L., assignor.)						
Knox, Robert W., Kilbirnie, Scotland. Machine for hackling and ending flax	625,036	May 16	1979	442	87	1125
Knox, William M., Chicago, Ill. Self-leveling chair for ships	619,895	Feb. 21	2036	462	86	1250
Knudsen, Hans. (See Code and Knudsen.)						
Knudsen, Hans, Boston, Mass. Elevated railway	637,005	Nov. 14	1500	323	89	1250
Knudsen, Karsten, assignor to American Electric Vehicle Company, Chicago, Ill. Electric vehicle. (Reissue)	11,724	Mar. 14	1448	320	86	1795
Knudson, Kittle, and H. Giles, Winneconne, Wis. Thill-coupling	624,501	May 9	1022	231	87	919
Knupp, Fred W., Fostoria, Ohio. Valve	619,705	Feb. 14	1664	382	86	1152
Knutsen, Anton, Madison, Wis. Vehicle-brake	618,106	Jan. 24	2386	533	86	516
Knüttel, Friedrich, Charlottenburg, Germany. Grain-steeping trough or cistern	622,051	Mar. 28	2815	635	86	2087
Koch, Albert, assignor to Chemische Fabrik von Max Jasper, Bernau, Germany. Manufacturing durable incandescent bodies	634,984	Oct. 17	1849	------	89	401
Koch, Benjamin F., New York, N. Y. Lady's hat	624,221	May 2	503	107	87	796
Koch, Caspar, Altendorf, assignor to F. Krupp, Essen, Germany. Device for running belts onto pulleys	638,515	Dec. 5	625	129	89	1985
Koch, Francis D., Conshohocken, Pa. Mining-shovel	638,681	Dec. 5	943	210	89	2051
Koch, Frederick W., New York, N. Y. Copying-press bath apparatus	625,777	May 30	3308	751	87	1423
Koch, Fritz, St. Paul, Minn. Brick-kiln	635,935	Oct. 31	3682	849, 850	89	785
Koch, Henry E., Hartington, Nebr. Grain-dislodging device	617,488	Jan. 10	1195	272	86	252
Koch, Henry E., Hartington, Nebr. Grain-separator	626,705	June 13	897	204	87	1806
Koch, Henry E., Hartington, Nebr. Bridge	627,509	June 27	2415	531	87	2140
Koch, Isadore, *et al.* (See Burns, Clem G., assignor.)						
Koch, Martin, *et al.* (See Melzer, Joseph, assignor.)						
Koch, Matteson T., New Lisbon, Wis. End-gate fastener	617,104	Jan. 3	469	112	86	92
Koch, Max, assignor to E. Miltsch, and W. Jacobi, Apolda, Germany. Knitted driving-belt	628,818	July 11	1643	379	88	348
Koch, Valentin, Geneva, Switzerland. Inhaling apparatus	631,575	Aug. 22	3444	778	88	1453
Koch, Victor, Scranton, Pa. Crossing for underground conduits for electrical conductors	634,759	Oct. 10	1453	342	89	305
Kochka, Thomas, New York, N. Y. Toy bowling-alley	621,967	Mar. 28	2676	602	86	2059
Kochs, Benjamin. (See Berninghaus and Kochs.)						
Kochs, Benjamin, assignor to Schoenthaler Manufacturing Company, St. Louis, Mo. Cushion for bottle-cases	634,355	Oct. 3	739	177	89	148
Koehler, Adam. (See Koehler, Fred L. and A.)						
Koehler, August. (See Bausch and Koehler.)						
Koehler, Clarkson A. and J. A., Saginaw, Mich. Flower-pot holder	636,265	Nov. 7	71	17	89	937
Koehler, Egmont, Altenburg, Germany. Support for bicycles	617,028	Jan. 3	315	74	86	63
Koehler, Frank G., assignor to Laclede Car Company, St. Louis, Mo. Car-truck. (Reissue)	11,709	Jan. 10	1602	361	86	331
Koehler, Fred L., Dubuque, Iowa, and A. Koehler, Chicago, Ill., assignors of one-third to T. J. Dunne, Dubuque, Iowa. Spring-wheel	616,942	Jan. 3	154	34, 35	86	31
Koehler, Frederic H., Chicago, Ill. Addressing-machine	628,477	July 11	986	228, 229	88	211
Koehler, James A. (See Koehler, Clarkson A. and J. A.)						
Koehler, Johan F., Chicago, Ill. Bicycle	620,459	Feb. 28	3009	688, 689	86	1448
Koehring, Henry von, Seguin, Tex. Pyrometer	637,343	Nov. 21	2174	468	89	1395

Alphabetical list of patentees—Continued.

Name, residence, and invention.	No.	Date.	Monthly volume. Spec.	Monthly volume. Dr'g.	Official Gazette. Vol.	Official Gazette. Page.
Koelner, John, assignor to Ballard & Ballard Company, Louisville, Ky. Packing-auger.	617,749	Jan. 17	1684	379	86	367
Koen, Robert, Evanston, Ill. Fish-hook	639,741	Dec. 26	2877	663	89	2486
Koenig, Emil, and M. L. Erlanger, New York, N. Y. Apparatus for aerating liquids, &c., with carbon dioxid	625,109	May 16	2123	482	87	1150
Koenig, Joseph, Two Rivers, Wis. Making metal combs	633,721	Sept. 26	2875	668	88	2311
Koenig, Joseph, Two Rivers, Wis. Grinding, polishing, or buffing machine	633,722	Sept. 26	2876	668	88	2311
Koenig, Joseph, Two Rivers, Wis. Grinding, polishing, or buffing machine	639,742	Dec. 26	2879	663	89	2486
Koenig, Joseph, Two Rivers, and N. Dedrick, Manitowoc; said Dedrick assignor to Aluminum Manufacturing Company, Two Rivers, Wis. Comb-cutting machine	633,696	Sept. 26	2830	657, 658	88	2302
Koenigkramer, Frank. (See Koenigkramer, Frederick and F.)						
Koenigkramer, Frederick, assignor of one-half to F. Koenigkramer, Cincinnati, Ohio. Revolving and reclining chair	629,036	July 18	2029	473	88	433
Koenigkramer, Frederick, assignor of one-half to F. Koenigkramer, Cincinnati, Ohio. Hydraulic chair	629,037	July 18	2031	473	88	433
Koerner, Georg, assignor to Badische Anilin and Soda Fabrik, Ludwigshafen, Germany. Black azo dye	638,127	Nov. 28	4017	------	89	1819
Koerner, Joseph. (See Pero and Koerner.)						
Koerper, Mickael B., and E. C. Talley, Waco, Tex. Machine for filtering liquids	620,786	Mar. 7	464	96	86	1502
Koettgen, Walter, *et al.* (See Dämitz, Adolf, assignor.)						
Kohl, Charles A., Cleveland, Ohio. Self-locking clamp	630,900	Aug. 15	2191	498	88	1188
Kohl, Georg, assignor of three-fifths to A. Bergl, Vienna, and V. von Theumer, Mauer, Austria-Hungary. Glow-body for incandescent burners	623,723	Apr. 25	2788	------	87	591
Kohl, Georg, assignor of three-fifths to A. Bergl, Vienna, and V. von Theumer, Mauer, Austria-Hungary. Glow-body for incandescent burners	623,724	Apr. 25	2789	------	87	591
Kohler, Emma E. (See Kohler, William L., assignor.)						
Kohler, Franklin W., *et al.* (See Dresser, Charles A., assignor.)						
Kohler, Franklin W., *et al.* (See Stone, Irving, assignor.)						
Kohler, G. A. Edward, *et al.* (See Dresser, Charles A., assignor.)						
Kohler, G. A. Edward, *et al.* (See Stone, Irving, assignor.)						
Kohler, Louis C., Milwaukee, Wis., assignor of one-half to F. C. Stover, Chicago, Ill. Traveler for pipes or conduits	632,353	Sept. 5	258	61	88	1758
Kohler, William L., assignor of two-thirds to E. E. Kohler, Hazleton, Pa. Refrigerator	625,569	May 23	2930	665	87	1331
Kohlhepp, John W. (See Mandel, Nathan, assignor.)						
Kohlmetz, Charles E. (See Ruthenberg, August, assignor.)						
Kohlmeyer, August H., and W. F. Stewart, St. Louis, Mo. Filter	635,966	Oct. 31	3735	863	89	795
Kohlsaat, Charles W. (See Davis, John T., assignor.)						
Köhn, Franz, Ploen, Germany. Barrel-closure	628,819	July 11	1644	379	88	342
Kohn, Gus, Magnolia, Ark. Scoop-scale	619,422	Feb. 14	1165	263	86	1056
Kohn, Jacob, assignor of one-half to W. B. Hurst, Baltimore, Md. Shirt	625,269	May 16	2396	543	87	1201
Kohn, Jacob W., Newark, N. J. Thill-coupling	626,026	May 30	3836	870	87	1523
Kohn, Joseph E., assignor of one-half to J. F. Kilby, Cleveland, Ohio. Apparatus for treating sugar-juices	626,760	June 13	987	223	87	1824
Kohn, Koby, Lincoln, Nebr. Fastening for bedsteads	633,651	Sept. 26	2743	638	88	2284
Kohn, Louis, Oakland, Cal. Chain propeller	629,570	July 25	3007	702	88	641
Kohne, Edward W., *et al.* (See Wade, Harry R., assignor.)						
Kohner, Jacob B., *et al.* (See Vogel, Edward F., assignor.)						
Kohout, Alois, and V. Rous, St. Louis, Mo. Combined trunk and wardrobe	623,913	Apr. 25	3175	731, 732	87	666
Koke, Fred C., Mankato, Minn. Purifier and roller-mill feeding-machine	625,037	May 16	1981	442	87	1125
Kolarik, Joseph, Chicago, Ill., and C. Werder, Eagle, S. D. Milk-sampler	625,399	May 23	2631	598	87	1273
Kolb, Henry M., and C. Foehl, Philadelphia, Pa. Bicycle-gear	621,925	Mar. 28	2587	583	86	2042
Kolb, Henry M., and C. Foehl, Philadelphia, Pa. Pedal-crank connection for bicycles, &c.	625,038	May 16	1982	443	87	1126
Kolben, Alois, Vienna, Austria-Hungary. Valve and cock	625,338	May 23	2536	577	87	1254
Koll, Peter C., Walnut, Iowa. Single trigger for double-barrel firearms	621,102	Mar. 14	1065	232	86	1720
Kollberg, Fredrick L., Chicago, Ill. Flanging-machine	628,099	July 4	269	64, 65	88	53
Kollén, Karl H. J. (See Larsson and Kollén.)						
Kolls, Herman, McCune, Kans. Machine for shaking Babcock milk-test bottles	639,404	Dec. 19	2255	520	89	2345
Kölner Wassermesser Werk, Gesellschaft mit Beschränkter Haftung. (See Lentschat, Georg O., assignor.)						
Koltonski, Stanislaus A., Boston, assignor to E. G. Carleton, Malden, Mass. Button	633,097	Sept. 12	1679	395	88	2053
Komow, Nicholas. (See Goldenberg, Komow, and Gutterman.)						
Konar, John, Chicago, Ill. Mechanical movement	624,052	May 2	187	40	87	738
Köneman, William A., assignor of one-half to W. H. Hartley, London, England. Pulverizing apparatus	617,030	Jan. 3	323	76, 77	86	64
Köneman, William A., and W. H. Hartley, London, England. Apparatus for separating liquids from solids	617,029	Jan. 3	316	75, 76	86	63
Konig, Albert, *et al.* (See Bachmann and Vogt, assignors.)						
König, Ernst, assignor to Farbwerke, vormals Meister, Lucius & Brüning, Höchst-on-the-Main, Germany. Basic disazo dye. (Reissue)	11,714	Jan. 31	3705	------	86	785
König, Ernst, assignor to Farbwerke, vormals Meister, Lucius & Brüning, Höchst-on-the-Main, Germany. Brown-yellow azo dye and making same	626,913	June 13	1318	------	87	1888
König, Ernst, and F. Scholl, assignors to Farbwerke, vormals Meister, Lucius & Brüning, Höchst-on-the-Main, Germany. Aromatic amidoammonium base and making same	618,688	Jan. 31	3476	------	86	739
Konrad, Franz L., Münster, assignor of one-half to G. W. Onken, Hamburg, Germany. Fireproofing wood	629,861	Aug. 1	197	45	88	759
Konrad, Otto, Ripon, Wis. Hood for emery-wheels	626,544	June 6	595	137	87	1729
Konrad, William, Jr., Oshkosh, Wis. Bicycle	623,914	Apr. 25	3177	732	87	666
Koob, John F., assignor of one-half to A. J. Ackermann, Union, N. J. Clothes-rack	626,618	June 6	707	164	87	1752
Koogler, Mathias L., De Graff, Ohio. Double-acting pump	620,041	Feb. 21	2286	519	86	1297
Koons, Daniel S., and W. F. Moughler, Chicago, Ill. Brush	634,527	Oct. 10	1039	248	89	225
Koons, Frank and F., Emmonsville, N. Y. Work-holding die for lathes	622,497	Apr. 4	555	130	87	105
Koons, Fred. (See Koons, Frank and F.)						
Koontz, Augustus O., and J. H. Shank, South Bend, Ind. Fastener for shoes, gloves, &c.	638,725	Dec. 12	1033	231	89	2087
Kooy, Jacob P., New York, N. Y. Blind-slat rod	633,013	Sept. 12	1502	349	88	2018
Koper, William F., Springfield, Ohio. Hydrant	624,502	May 9	1024	231	87	919
Kopetschny, Alexander H., Jersey City, N. J. Puzzle	637,804	Nov. 28	3373	707	89	1691
Kopf, Sigel D., Grand Rapids, Mich. Acetylene-gas machine	623,481	Apr. 18	2362	543	87	493
Kopp, Nicholas, Coraopolis, Pa. Printing-machine	635,326	Oct. 24	2487	578	89	540
Koppitz, Albert. (See Neeley, George S., assignor.)						
Kops, Daniel, New York, N. Y. Corset	631,079	Aug. 15	2535	574	88	1255
Korbuly, Josef, Arad, Austria-Hungary. Axle-bearing	631,400	Aug. 22	3108	704	88	1386
Korfhage, Charles, New York, N. Y., assignor, by mesne assignments, to W. B. Allen, Trenton, N. J. Workman's time-recorder	634,241	Oct. 3	497	128, 129	89	101
Kornick, Joe L., assignor of one-half to E. I. Munzer, Chicago, Ill. Top and mechanism for spinning same	635,020	Oct. 17	1903	453	89	411

Alphabetical list of patentees—Continued.

Name, residence, and invention.	No.	Date.	Monthly volume.		Official Gazette.	
			Spec.	Dr'g.	Vol.	Page.
Korns, Clarence C., Johnstown, Pa. Wire gate	626,545	June 6	596	137	87	1730
Korsmeier, Fred, assignor to Chicago Binder and File Company, Chicago, Ill. Letter or bill file	638,726	Dec. 12	1035	232	89	2087
Korsmeyer, Ernst H., assignor of one-half to F. Langkrahr, Higginsville, Mo. Gasolene or gas engine	636,048	Oct. 31	3896	894 895	89	828
Korsmeyer, Ernst H., assignor of one-half to F. Langkrahr, Higginsville, Mo. Motor-vehicle	636,049	Oct. 31	3899	895 896	89	829
Kortenbach, August. (See Worring and Kortenbach.)						
Kortick, Frank, San Francisco, Cal. Pick	617,105	Jan. 3	471	113	86	92
Kortner, Conrad M., Pearl City, Ill. Automatic gate	617,580	Jan. 10	1374	311 312	86	286
Kortright, George W., Sioux City, Iowa. Telescopic clamp. (Reissue)	11,731	Apr. 11	1713	395	87	347
Korwan, Anton, New York, N. Y. Pneumatic insole	632,529	Sept. 5	591	135	88	1825
Koschade, Adalbert, Erding, assignor to G. Beissbarth, vormals Fr. Loos, Nuremberg, Germany. Lubricator	618,470	Jan. 31	3079	682	86	662
Kosiol, Louis, Louisville, Ky. Overflow and waste fixture for sinks, &c	630,718	Aug. 8	1870	422	88	1100
Koss, Otto F. (See Steffens and Koss.)						
Kössl, Frank, Milwaukee, Wis. Lamp-extinguisher	636,266	Nov. 7	72	17	89	937
Kostlan, Frank, Traer, Iowa. Printing attachment for roll-paper holders	627,583	June 27	2557	563	87	2167
Koues, Frank B., Rutherford, N. J. Sash-lock	618,471	Jan. 31	3080	682	86	662
Kouns, Moses W., assignor to Ohio Cultivator Company, Bellevue, Ohio. Disk harrow	623,677	Apr. 25	2716	623	87	578
Kouznezoff, Wasiliy, Moscow, Russia. Feeder for steam-generators	627,510	June 27	2416	531 532	87	2140
Kovatsch, Thomas, Franzdorf, Austria-Hungary. Machine for turning and polishing crooked or straight wooden rods or sticks	620,152	Feb. 28	2486	565	86	1350
Koven, Theodore J., Jersey City, N. J. Clutch	618,689	Jan. 31	3476	776 777 778	86	739
Krabal, Frank, Pittsburg, Pa. Machine for forming and printing butter cakes	634,300	Oct. 3	622	152	89	125
Kraber, Gerrit A., and S. Viereck, Pittsburg, Pa. Baker's oven	637,132	Nov. 14	1755	377	89	1297
Kracker, George, Philadelphia, Pa. Garment-supporter	640,002	Dec. 26	3350	767	89	2580
Kradisch, Albrecht, Mariaschein, Austria-Hungary. Apparatus for washing and rinsing barrels	637,344	Nov. 21	2175	468	89	1395
Kraft, Augustus C. H., Highland Park, Ill. Turret-lathe tool-holder	631,080	Aug. 15	2537	574 575	88	1255
Krag, Erik L. (See Rasmussen, Alfred W., assignor.)						
Kragel, John, assignor of one-half to F. Hess, Chicago, Ill. Portable window-platform	638,516	Dec. 5	626	130	89	1986
Krah, Armin, Berlin, Germany. Portfolio, letter-file, &c	621,256	Mar. 14	1335	296	86	1773
Krahenbuhl, Ernest, San Rafael, Cal. Watch-plate	632,128	Aug. 29	4454	1002	88	1660
Kraink, George, assignor of one-half to A. and H. Schiffer, Paterson, N. J. Spindle for doubling and spinning	625,039	May 16	1984	443	87	1126
Kramer, Christian, assignor of one-half to C. Wirtz, New York, N. Y. Alarm attachment for power-looms	622,498	Apr. 4	557	130	87	105
Kramer, Fritz, Blythedale, Pa. Trolley pole and wheel	619,080	Feb. 7	535	112	86	915
Kramer, George W., Peoria, Ill., assignor to Indiana Manufacturing Company, Indianapolis, Ind. Pneumatic straw-stacker	633,383	Sept. 19	2250	530	88	2175
Kramer, J. A. (See Robinson, William H., assignor.)						
Kramer, Jacob, Alvord, Iowa. Draft-equalizer	630,362	Aug. 8	1195	262	88	974
Kramer, John M., F. Heckman, and H. Synck, Jr., Maria Stein, Ohio. Manure-distributer	622,957	Apr. 11	1393	321	87	284
Kramer, Louis F. (See Barber and Kramer.)						
Krandt, Hermann, Rostock, Germany. Copying apparatus	630,901	Aug. 15	2192	499	88	1188
Kraner, Jacob, Kendallville, Ind. Refrigerator-pail	633,201	Sept. 19	1880	443	88	2104
Krank, Alfred J., St. Paul, Minn. Shears	617,964	Jan. 17	2102	471	86	450
Krase, William J., assignor to Pelton Water Wheel Company, San Francisco, Cal. Water-wheel casing	633,962	Sept. 26	3281	764	88	2393
Kraus, Conrad, *et al.* (See Campbell, George L., assignor.)						
Kraus, Henry, *et al.* (See Campbell, George L., assignor.)						
Kraus, William, *et al.* (See Campbell, George L., assignor.)						
Krause, Arthur E., Jersey City, N. J. Filter	630,363	Aug. 8	1196	263	88	975
Krause, Charles F., Jr., Union, N. J. Funnel	622,696	Apr. 11	938	216	87	198
Krause, Feodor, and R. C. Brachhausen, Rahway, N. J. Fan attachment for vehicles	624,222	May 2	505	108	87	796
Krause, Hugo C., assignor of three-fourths to M. and N. Eiseman and J. W. Kaiser, Chicago, Ill. Hose-supporter	624,503	May 9	1026	231	87	920
Krause, Philip R., Denny, Pa. Spring-hinge	631,797	Aug. 29	3856	859	88	1542
Kraushaar, George J., assignor of one-half to J. H. McArthur, Cleveland, Ohio. Bicycle-bell	618,107	Jan. 24	2388	533	86	518
Krauss, Austin H., Wymore, Nebr. Valve-operating gear	623,915	Apr. 25	3178	732	87	667
Krausse, Bruno, Wilmersdorf, assignor to H. Eichwede, Berlin, Germany. Telephone-call register	620,042	Feb. 21	2288	519 520	86	1298
Kray, John A., assignor of one-half to J. C. McClain, Lancaster, Pa. Coin assorting and counting apparatus	623,916	Apr. 25	3179	732 733	87	667
Krebs, Clifton E., *et al.* (See Schneider, George, assignor.)						
Krebs, George W., assignor of one-half to L. V. Clark, Conway Springs, Kans. Weather-strip	623,917	Apr. 25	3181	733	87	667
Krebs, Henrik J., Wilmington, Del. Recovering chromates from tan liquor	620,935	Mar. 14	739	------	86	1658
Kregnes, Andrew A. (See Morrison and Kregnes.)						
Kreidmann, Aisik, Altona, Germany. Making soluble preparation of quinin and caffein	625,886	May 30	3527	------	87	1466
Kreiss, Eugen, Hamburg, Germany. Disintegrator	639,406	Dec. 19	2257	521	89	2343
Krekel, Edward G. (See Bastam, Alaxander, assignor.)						
Krekes, Daniel, assignor of one-half to C. Fekete, Pittsburg, Pa. Padlock	624,947	May 16	1838	413	87	1097
Krekler, Albert, *et al.* (See Speer and Hyatt, assignors.)						
Kremer, Frank W. (See Wheeler and Kremer.)						
Kremer, Theodore E., Ridley Park, Pa. Combination-undergarment	624,825	May 9	1616	367	87	1037
Krenek, Ignatz, Fayetteville, Tex. Sawing-machine	633,599	Sept. 26	2657	620	88	2268
Kress, Carl F., Jr., Johnstown, Pa., assignor, by mesne assignments, to Lorain Steel Company, of Ohio. Railway-track structure	617,166	Jan. 3	591	139	86	116
Kress, Carl F., Jr., Johnstown, Pa., assignor, by mesne assignments, to Lorain Steel Company, of Ohio. Railway switch-mate	617,167	Jan. 3	593	139	86	116
Kress, Carl F., Jr., Johnstown, Pa., assignor to Lorain Steel Company, of Pennsylvania. Railway-frog	639,251	Dec. 19	1954	450	89	2282
Kress, Carl F., Jr., Johnstown, Pa., assignor to Johnson Company, of Pennsylvania. Railway-switch	633,723	Sept. 26	2878	669	88	2312
Kress, John G., *et al.* (See Tanney, Frank E., assignor.)						
Kress, Leopold, *et al.* (See McLean, Robert B., assignor.)						
Kress, Louis, *et al.* (See Tanney, Frank E., assignor.)						
Kretschmar, Hans A., von, and J. Vollmer, assignors to F. Krupp, Essen, Germany. Telescope attachment for guns	635,102	Oct. 17	2081	490	89	447

Alphabetical list of patentees—Continued.

Name, residence, and invention.	No.	Date.	Monthly volume. Spec.	Monthly volume. Dr'g.	Official Gazette. Vol.	Official Gazette. Page.
Kretschmer, Charles, Pueblo, Colo. Whiffletree-coupling	636,813	Nov. 14	1115	239	89	1174
Kretschmer, Charles, Pueblo, Colo. Wagon-standard	636,814	Nov. 14	1117	239	89	1174
Kreuder, Ludwig. (See Kleinschmidt and Kreuder.)						
Kreuser, Emil, Mechernich, Germany. Electromagnetic apparatus for separating ores	634,356	Oct. 3	740	177	89	148
Kreuser, Emil, Mechernich, Germany. Electromagnetic ore-separator	638,128	Nov. 28	4019	846	89	1819
Kreuser, Emil, Mechernich, Germany. Electromagnetic ore-separator	638,129	Nov. 28	4020	846	89	1819
Kreuser, Emil, Mechernich, Germany. Electromagnetic apparatus for separating ores	639,062	Dec. 12	1599	367	89	2197
Kreutzmann, Johannes, Königsberg, Germany. Registering attachment for drinking-glasses	636,815	Nov. 14	1118	239, 240	89	1174
Kreuzer, Karl, Lindenfels, Germany. Splitting stone	630,983	Aug. 15	2352	535	88	1219
Krichauff, Sophus H. (See Rufus and Krichauff.)						
Krick, William C., New York, N. Y. Flower-pot stand	637,622	Nov. 21	3053	631	89	1607
Kriegbaum, John C., and W. A. Raudabaugh, Pleasant Hill, Ohio. Anvil-vise	630,364	Aug. 8	1201	264	88	976
Krieger, Louis, Paris, France. Motor-vehicle	633,763	Sept. 26	2942	683	88	2324
Krieger, Louis, Paris, France. Electrically-propelled vehicle. (Reissue)	11,780	Oct. 31	4279	982, 983	89	904
Kringel, Frank W., Los Angeles, Cal. Piano-action and touch-regulator therefor	619,964	Feb. 21	2147	487, 488	86	1271
Krippendorf, Paul, Cincinnati, Ohio, assignor to Wheeler & Wilson Manufacturing Company, Bridgeport, Conn. Sewing-machine for stitching eyelets	624,223	May 2	507	108	87	797
Kristian, Stefan, New York, N. Y. Tellurian	627,697	June 27	2771	607	87	2209
Krnka, Karl. (See Roth and Krnka.)						
Kroft, Anthony W. (See Kroft, Roswell I., assignor.)						
Kroft, Roswell I., Avon Lake, assignor of one-half to A. W. Kroft, Cleveland, Ohio. Trolley-catcher	621,422	Mar. 21	1629	362	86	1842
Krogh, Ferdinand W., San Francisco, Cal. Suction-dredging	617,899	Jan. 17	2000	446	86	429
Krogh, Marius F., Rothenkrug, Germany. Apparatus for boiling milk	635,692	Oct. 24	3198	737	89	678
Kromann, Harald J., assignor of one-half to C. Griffin, New York, N. Y. Dredging-bucket	619,581	Feb. 14	1418	326	86	1105
Krone, Johannes, assignor to F. Krupp, Essen, Germany. Ammunition-hoist	624,826	May 9	1617	367, 368	87	1038
Krone, Johannes, assignor to F. Krupp, Essen, Germany. Fluid-brake for guns	635,557	Oct. 24	2957	677	89	631
Krone, Johannes, assignor to F. Krupp, Essen, Germany. Ammunition-hoist for vessels of war	636,534	Nov. 7	539	119	89	1030
Krone, Johannes, assignor to F. Krupp, Essen, Germany. Apparatus for adjusting elevation of guns	639,407	Dec. 19	2261	521, 522	89	2343
Kronke, Emil, Dresden, Germany. Roll-holding camera	625,570	May 23	2932	666	87	1331
Kronquest, August C., assignor to Geuder & Paeschke Manufacturing Company, Milwaukee, Wis. Corrugating-machine	637,875	Nov. 28	3527	738, 739	89	1723
Kropf, Paul, assignor to International Fermenting and Aging Company, Chicago, Ill. Manufacturing beer	619,317	Feb. 14	985	------	86	1022
Kroscher, Henry, and J. B. Olsen, Milwaukee, Wis. Game apparatus	626,328	June 6	209	51	87	1653
Krottnaurer, Paul O., Chicago, Ill. Furnace	628,336	July 4	733	169, 170	88	141
Krotz, Alvaro S., assignor of two-thirds to O. S. and O. W. Kelly, Springfield, Ohio. Motor-cycle	621,684	Mar. 21	2124	473	86	1939
Krouse, Clarence A. (See Lackey, William S., assignor.)						
Krout & Fite Manufacturing Company. (See Weimar, Andrew, assignor.)						
Krueger, Theodore F., New York, N. Y. Sink-trap	625,339	May 23	2537	577	87	1254
Kruger, Edward H., Elizabeth City, N. C. Shingle-planing machine	626,813	June 13	1093	245	87	1844
Krüger, Ferdinand, Berlin, Germany. Rotary steam-engine	635,558	Oct. 24	2959	677	89	632
Kruger, Philip J., Greenville, Ill. Flue-cutter	636,674	Nov. 7	804	178	89	1085
Kruis, Hans, and R. Gallée, Vienna, Austria-Hungary. Clamp	621,257	Mar. 14	1336	297	86	1773
Krull, Johann H. F., Hamburg, Germany. Electric coin-freed apparatus	627,736	June 27	2838	622, 623	87	2224
Kruming, Christoph, Griwa-Semgallen, assignor to H. H. Meyer, Riga, Russia. Reversing mechanism	631,217	Aug. 15	2761	625	88	1300
Krumroy, William E., Cleveland, Ohio. Baker's oven	622,499	Apr. 4	558	131	87	106
Krupp, Fried. (See Funke, Carl, assignor.)						
Krupp, Fried. (See Hartmann, Oscar H., assignor.)						
Krupp, Fried. (See Koch, Caspar, assignor.)						
Krupp, Fried. (See Kretschmar and Vollmer, assignors.)						
Krupp, Fried. (See Krone, Johannes, assignor.)						
Krupp, Fried. (See Pohlit, Carl, assignor.)						
Krupp, Fried. (See Resow, Adolf, assignor.)						
Krupp, Fried. (See Resow and Behnke, assignors.)						
Krupp, Fried. (See Resow and Lauber, assignors.)						
Krupp, Fried. (See Schoeller, Gustav A., assignor.)						
Kruse, Max, Wilmersdorf, Germany. Engraving-machine	630,546	Aug. 8	1580	352	88	1044
Kruse, Theodore, Indianapolis, Ind. Burner-heater for boilers	634,734	Oct. 10	1413	333	89	298
Kruse, William G., Buffalo Center, Iowa. Stacker	619,423	Feb. 14	1167	263	86	1056
Kryszewski, Peter. (See Kryszewski, Wladyslaw and P.)						
Kryszewski, Wladyslaw and P., Jersey City, N. J. Dough-mixer	628,337	July 4	735	170	88	141
Kubica, Paul, assignor of two-thirds to L. Swatosch and C. Waldmann, Vienna, Austria-Hungary. Batting-machine	619,318	Feb. 14	986	222	86	1022
Kubierschky, Martin T. A., Berlin, Germany. Regulating electric motors	635,139	Oct. 17	2163	504, 505	89	462
Kubierschky, Martin T. A., Berlin, Germany. Contact-shoe for surface-contact railways	639,252	Dec. 19	1956	450	89	2282
Kuder, Charles V., Chicago, Ill. Camp-stove	637,965	Nov. 28	3683	773, 774	89	1754
Kudlicz, Josef, Bubna, Austria-Hungary. Mechanical feeder and stoker for furnaces	623,284	Apr. 18	2016	463, 464	87	423
Kuehn, Joachim F. W., and P. Wohlfahrt, San Antonio, Tex. Coupling for well-drilling tools	634,114	Oct. 3	244	61	89	52
Kuehnle, Martin, *et al.* (See Schirra, Julius, assignor.)						
Kuerschner, Hugo, Washington, D. C. Hand-support for piano pupils	627,646	June 27	2686	589	87	2194
Kuersten, Hugo R., Chicago, Ill. Barber's or dentist's chair	629,321	July 18	2540	591, 592	88	529
Kuett, George F. (See Fischer, Kuett, and Fischer.)						
Kuett, George F. (See Freund and Kuett.)						
Kuett, George F., *et al.* (See Wildermuth, Adolf, assignor.)						
Kufferath, Karl, Mariaweiler, Germany. Wire-netting for use in manufacturing paper	617,581	Jan. 10	1375	312	86	287
Kuhlewind, Cornelius, Knoxville, assignor to Hydraulic Valve and Regulator Company, Limited, Pittsburg, Pa. Automatic release device for rolls	627,936	June 27	3204	701	87	2299
Kuhlewind, Cornelius, and E. C. Eisengart, Knoxville, assignors to Hydraulic Valve and Regulator Company, Limited, Pittsburg, Pa. Safety device for rolls	627,935	June 27	3202	700, 701	87	2299
Kuhlman, David D., Oklahoma, Okla. Ter. Grading and ditching machine	625,270	May 16	2398	544	87	1202

Alphabetical list of patentees—Continued.

Name, residence, and invention.	No.	Date.	Monthly volume.		Official Gazette.	
			Spec.	Dr'g.	Vol.	Page.
Kuhlman, William F., Hebron, Nebr. Railway-signal	631,724	Aug. 22	3713	833	88	1505
Kuhlo, Franz, and C. Ecker, Berlin, Germany; said Ecker assignor to said Kuhlo. Circuit closing and interrupting device	638,020	Nov. 28	3802	799	89	1777
Kühn, Carl, Berlin, Germany. Ball-joint	617,833	Jan. 17	1867	417	86	403
Kuhn, Charles, Fruitvale, Cal. Door-mat	625,040	May 16	1986	444	87	1126
Kuhn, Charles M., *et al.* (See Kuhn, Frank P., assignor.)						
Kühn, Ernst, Untenkatternberg, Germany. Pocket-knife	633,854	Sept. 26	3097	718	88	2356
Kuhn, Frank P., assignor of three-fourths to J. H. Black and C. M. Kuhn, Kearney, Nebr. Tool-holder	618,796	Jan. 31	3661	819	86	776
Kuhn, Henry, Rochester, N. Y. Sensitized metallic-coated photographic paper	640,137	Dec. 26	3590	826	89	2630
Kuhn, Jacob, Jr. (See Honson, Cornelius, assignor.)						
Kuhn, John A. (See Klugel, Oscar G., assignor.)						
Kuhn, Joseph, Maple Grove, Mich. Hand-tool for applying wire stays	621,498	Mar. 21	1780	396	86	1870
Kuhn, Lewis, St. Louis, Mo. Sash-cord holder	627,126	June 20	1692	371	87	1980
Kuhn, Rudolph C., La Crosse, Wis. Box-fastener	617,582	Jan. 10	1376	312	86	287
Kuhn, Theodor. (See Schmelzeis, Heinrich, assignor.)						
Kühne, Hermann. (See Seltner, Wilhelm, assignor.)						
Kühne, Hermann, London, England. Apparatus for measuring air-currents, &c	628,478	July 11	991	230	88	211
Kühnel, Franz R., and C. L. E. Busse, Berlin, Germany. Device for draping curtains, &c	631,401	Aug. 22	3109	704	88	1386
Kulman, Oscar S., Savannah, Ga. Broom	626,169	May 30	4136	941	87	1577
Kumberg, Jules E. O., London, England. Telephonograph	636,209	Oct. 31	4229	973	89	895
Kummer, Rudolph B., Columbus, Nebr. Water-wheel	626,619	June 6	709	164	87	1752
Kundtz, Theodor and J. Gedeon, Cleveland, Ohio. Cabinet for sewing-machines, &c	619,319	Feb. 14	987	223	86	1022
Kunert, Ernst, Newark, N. J. Life-preserver	635,439	Oct. 24	2756	630 631	89	502
Kunkel, August. (See Burkhart and Kunkel.)						
Kunstweberei Claviez & Company, Gesellschaft mit Beschränkter Haftung. (See Claviez, Alfred, assignor.)						
Kuny, Frederick J., Mound City, Ill. Bucket-chain for water elevators and purifiers	622,896	Apr. 11	1291	297	87	263
Kunz, Albert, assignor of one-half to J. Sutter, Hartford, Conn. Switch	623,320	Apr. 18	2081	477	87	435
Kunz, Charles T., assignor to F. J. Schnugg, New York, N. Y. Burglar-alarm	617,931	Jan. 17	2052	460	86	441
Kunz, John, Jr. (See Henkel and Kunz.)						
Kunz, Reinhard, Sr., Milwaukee, Wis. Automatic safety-stop for engines	618,177	Jan. 24	2545	562	86	546
Kunze, George W., Bryant, Wash. Combined garment hanger and lock	622,371	Apr. 4	298	69	87	57
Kunzelman, John R., Stillwater, Minn. Railway-spike	619,582	Feb. 14	1420	326	86	1105
Kunzelman, John R., Stillwater, Minn. Railway-spike	634,985	Oct. 17	1850	439	89	401
Kunzer, Louis G., assignor to A. H. Barber & Company, Chicago, Ill. Valve mechanism for gas-compressing machines	620,936	Mar. 14	740	163	86	1658
Kupper, August, Rhinelander, Wis. Horse-detacher	619,583	Feb. 14	1420	327	86	1105
Küppers, Karl, and H. Schroeder, Aachen, Germany. Acetylene-gas generator	635,327	Oct. 24	2490	578	89	540
Kupsch, Hermann, Chicago, Ill. Open die-head	637,133	Nov. 14	1757	377	89	1298
Kure, Ole, Chehalis, Wash. Door-securer	633,461	Sept. 19	2380	560	88	2201
Kurkumeli, Iwan G., Kertsch, Russia. Fender for vessels	624,948	May 16	1839	413	87	1097
Kurmann, Konrad, assignor of one-half to J. Marchew, Lodz, Russia. Means for attaching heddles to shafts	632,726	Sept. 12	995	231	88	1918
Kursawe, Carl. (See Brandt, Franz O., assignor.)						
Kursawe, Carl. (See Straube, Richard, assignor.)						
Kursheedt, Alphonse H. (See Groebli and Kursheedt.)						
Kursheedt, Alphonse H., New York, N. Y. Spangled fabric	631,310	Aug. 22	2949	667	88	1354
Kursheedt Manufacturing Company. (See Groebli, Joseph A., assignor.)						
Kurth, Charles, and A. Masters, assignors to W. Demuth, New York, N. Y. Tobacco-pipe	638,130	Nov. 28	4021	------	89	1819
Kurth, William, assignor to P. Hennig, Casselton, N. D. Lace holder and winder	622,695	Apr. 11	936	216	87	197
Kurtz, Clinton J., Salem, Oreg. Fruit-drier	625,778	May 30	3308	751	87	1423
Kurtz, Fred K., assignor to Chicago Cottage Organ Company, Chicago, Ill. Piano-action	628,181	July 4	421	99	88	85
Kurtz, John C., Dayton, Ohio. Fuel-gas burner	621,968	Mar. 28	2677	602	86	2059
Kurtz, Joseph L., New York, N. Y. Watch-movement bridge	639,177	Dec. 12	1796	416	89	2237
Kurz, Jacob, Hoboken, N. J., assignor to F. Baumann, New York, N. Y. Joint for display-stands	617,342	Jan. 10	930	214	86	200
Kuschel, Augustin, San Francisco, Cal. Centrifugal honey-extractor	622,156	Mar. 28	3005	679	86	2126
Kuss, Henry F., assignor to himself and Q. R. Hessel, Escanaba, Mich. Spout-gate and mechanism for operating same	629,195	July 18	2321	538	88	488
Kuster, August C., New York, N. Y. Cycle-perambulator	622,500	Apr. 4	559	131	87	106
Kuster, William A., assignor of one-half to A. Silver, New York, N. Y. Cooking utensil	617,880	Jan. 17	1957	438	86	421
Küstner, Otto J., Chicago, Ill. Reel mechanism	620,332	Feb. 28	2808	641	86	1411
Kutscher, Charles. (See Wolf, Rudolf, assignor.)						
Kuttler, Frank, Detroit, Mich Vise for holding threaded nipples	629,747	July 25	3332	778	88	704
Kutz, Ellsworth M., Reading, and A. S. Kelchner, Fleetwood, Pa. Combined chair and cane	628,584	July 11	1198	279	88	250
Kuyath, John, St. Louis, Mo. Surgical bandage	632,727	Sept. 12	996	231	88	1918
Kuzel, Thomas, Buckholts, Tex. Evaporator	634,465	Oct. 10	937	223	89	205
Kvernum, Ole P., Waukon, Iowa. Washing-machine	621,351	Mar. 21	1520	338	86	1822
Kyle, Osceola, *et al.* (See Flanigan, Joseph H., assignor.)						
L'Enfant, Charles, New York, N. Y. Die for cutting book-cover blanks	619,967	Feb. 21	2155	489	86	1272
L'Hoir, George, and J. B. Deham, Hornu Hainaut, Belgium. Wire cable for cutting stone	626,621	June 6	712	165	87	1753
L'Hoir, George, aud J. B. Deham, Hornu, Belgium. Stranded wire for cutting purposes	640,139	Dec. 26	3592	826	89	2630
L. E. Rhodes Company. (See Spencer, Ira H., assignor.)						
L. M. Rumsey Manufacturing Company. (See Israel, Earl H., assignor.)						
Lá Bonté, Adolphus, Worcester, Mass. Apparatus for flushing water-closets	624,224	May 2	509	108	87	797
La Burt, John, New York, N. Y. Bicycle-brake	639,408	Dec. 19	2263	522	89	2344
La Clair, Henry T., Washington, D. C. Clutch	638,637	Dec. 5	848	184	89	2029
La Compagnie de Fives Lille. (See Duval, Edmond M. L., assignor.)						
La Croix, John D. (See Kelso, Jerome T., assignor.)						
La Due, Samuel C., Fertile, Minn. Ruler and spacer	616,943	Jan. 3	156	35	86	31
La Fayette, Fay M. (See Simons, Al Burt, assignor.)						
La Fleur, Charles E., Baltimore, Md. Egg-case filler	621,609	Mar. 21	1972	440	86	1908
La Fleur, Charles E., Baltimore, Md. Packing eggs for shipment	633,384	Sept. 19	2250	530	88	2175
La Forest, Frederick, Edmunston, Canada. Track-fastening device	617,031	Jan. 3	327	77	86	64
La Fountain, Maxim, Jr., assignor to Woonsocket Napping Machinery Company, Woonsocket, R. I. Cloth-shearing machine	627,342	June 20	2085	460	87	2059
La France Fire Engine Company. (See Moore, Charles R., assignor.)						
La France, Joseph, *et al.* (See Feher, Odilon, assignor.)						
La Grave, Charles A. (See Pratt and La Grave.)						
La Grave, Charles A., Carson, Nev. Bicycle driving-gear	618,691	Jan. 31	3484	778 779	86	740
La Roche, Charles de, Paris, France. Refining oils	625,933	May 30	3609	------	87	1480

Alphabetical list of patentees—Continued.

Name, residence, and invention.	No.	Date.	Monthly volume.		Official Gazette.	
			Spec.	Dr'g.	Vol.	Page.
La Société Anonyme des Voiturettes Automobiles. (See Chauveau, Gustave V. L., assignor.)						
La Société Anonyme Francaise de L'Appareil Contrôleur. (See Monier and Gloeckler, assignors.)						
La Société Chimique des Usines du Rhône, Anciennement Gilliard, P. Monnet et Cartier. (See Goybet, Louis, assignor.)						
La Société Chimique des Usines du Rhône, Anciennement Gilliard, P. Monnet et Cartier. (See Helbing and Pertsch, assignors.)						
La Société Chimique des Usines du Rhône, Anciennement Gilliard, P. Monnet et Cartier. (See Pertsch, Gustave, assignor.)						
La Société Chimique des Usines du Rhône, Anciennement Gilliard, P. Monnet et Cartier. (See Trillat, Jean J. A., assignor.)						
La Société des Générateurs à Vaporisation Instantanée, (Système Leon Serpollet.) (See Serpollet, Leon, assignor.)						
La Société Internationale de l'Acétyléne. (See Macé and Gérard, assignors.)						
La Société Nouvelle des Établissements de L'Horme et de la Buire. (See Maurice, Paul, assignor.)						
La Turno, John T., Grand Tower, Ill. Extension-table	625,173	May 16	2224	505	87	1170
La Varre, William J., Washington, D. C. Floss-holder for cleaning teeth	618,009	Jan. 17	2178	487	86	463
La Vecn, Andrew, assignor of one-half to E. B. Kenefic, Willow City, N. D. Car-seal	629,511	July 25	2921	680	88	624
La Veine, Edward N., Kansas City, Mo. Spring-clamp	632,729	Sept. 12	997	232	88	1919
La "Volta" Société Anonyme Suisse de l'Industrie Electro-Chimique. (See Bovy, Hugues, assignor.)						
Laag, Adriaan M. W. ter, Philipsburg, St. Martin, West Indies. Rotary tooth-brush	618,690	Jan. 31	3483	778	86	740
Laass, Emil. (See Boles and Laass.)						
Labare, Henry N. (See Howe, Ames and Labare.)						
Labatt, Henry J., *et al.* (See Lewis, George H., assignor.)						
Labatt, Joseph A., *et al.* (See Lewis, George H., assignor.)						
Labelle, Louis V., St. Jacques de l'Achigan, Canada. Fertilizer-distributer	628,100	July 4	273	65	88	54
Labelle, Louis V., St. Jacques de l'Achigan, Canada. Fertilizer-distributer	633,244	Sept. 19	1976	463 464	88	2123
Laboratoires Sauter, Société Anonyme. (See Heinen, Charles J., assignor.)						
Labram, George F., Kimberly, Cape Colony. Braking apparatus	640,138	Dec. 26	3591	826	89	2630
Lacey, James D. (See Billings, James R., assignor.)						
Lacey, Orra M., Hanford, Cal. Automatic controller for electric lights	625,571	May 23	2934	666	87	1332
Lacey, Orra M., Hanford, Cal. Controller for electric lights. (Reissue)	11,765	Aug. 15	2869	648	88	1321
Lachance, Edgard, Pittsburg, Kans. Washing-machine	630,719	Aug. 8	1872	423	88	1100
Lachapelle, Augustus, Hicksville, Ohio. Sand-band for vehicles	623,791	Apr. 25	2944	673	87	622
Lack, Finis E., Paducah, Ky. Singletree-clip	624,053	May 2	188	41	87	739
Lackey, James T., Gosport, assignor of one-half to R. G. McCoy, Dallas, Iowa. Apparatus for collecting and conveying water	624,504	May 9	1027	232	87	920
Lackey, William S., assignor to himself and C. A. Krouse, Haddonfield, N. J. Fire-pail	624,505	May 9	1029	232	87	920
Lackman, Raymond A., assignor of one-half to F. Scheel, Earling, Iowa. Thawing apparatus	617,168	Jan. 3	594	139	86	116
Lacks, Henry H. (See Holt, George W., Jr., assignor.)						
Laclede Car Company. (See Koehler, Frank G., assignor.) (Reissue.)						
Lacomme, Jean M. A. (See Tilyou and Lacomme.)						
Lacoste, Charles J., Brussels, Belgium. Machine for making cigars	623,407	Apr. 18	2235	512	87	467
Lacoste, Joseph, Brussels, Belgium. Machine for making cigars	623,406	Apr. 18	2231	511	87	466
Lacroix, Paul, Paris, France. Acetylene-gas generator	639,925	Dec. 26	3206	736	89	2551
Lacy, George W. (See Suderman and Lacy.)						
Ladd, George W., Freetown, assignor of one-half to P. H. O'Brien, New Bedford, Mass. Book-support	639,063	Dec. 12	1601	367	89	2198
Ladd, Melvin A., Grand Isle, and G. N. Gove, Essex, Vt. Pitman connection	625,171	May 16	2221	503	87	1169
Laemmel, Albert, assignor to J. V. Luff, New York, N. Y. Mouthpiece for telephones	631,081	Aug. 15	2538	575	88	1256
Laffey, Mark. (See Keelan, John, assignor.)						
Laforest, Joseph O. A., Montreal, Canada. Service-box for service-pipes	635,328	Oct. 24	2491	578	89	540
Laganke, Charles F. (See Fisher and Laganke.)						
Lagerquist, Erik S., Oxford Depot, N. Y. Milk-strainer	626,170	May 30	4137	942	87	1578
Lagerquist, Henry. (See Olson, Charles, assignor.)						
Lagerquist, Henry, assignor of one-half to C. Olson, Des Moines, Iowa. Soft-tread horse-shoe	632,786	Sept. 12	1105	255	88	1942
Lagutt, Jan. (See Böniger and Lagutt.)						
Lahey, James A. (See Mulvey, James, assignor.)						
Lahm, Ferdinand, St. Louis, Mo. Roller attachment for sleds	627,001	June 13	1479	324	87	1920
Laible, Philip D., Newark, N. J. Steaming-cap for bottles	626,027	May 30	3838	870	87	1523
Laiblin, Richard. (See Julius and Laiblin.)						
Laing, Edward M. (See McPherson and Laing.)						
Laing, William H., Racine, Wis. Cut-off valve for hose	618,472	Jan. 31	3082	683	86	663
Lair, Paul, Lotbinière, Canada. Engine	625,887	May 30	3528	801 802	87	1466
Laird, Robert H., Boston, assignor to R. R. Quackenbush, Watertown, Mass. Process of and apparatus for manufacturing gas	626,866	June 13	1224	270 271	87	1868
Laird, William C., Bay City, Mich. Sliding bayonet	634,466	Oct. 10	938	223	89	205
Lake, Robert G., New York, N. Y. Sign-letter	635,103	Oct. 17	2083	490	89	447
Lake, Simon, Baltimore, Md. Diving-bell	617,750	Jan. 17	1685	379 380	86	367
Lake, Simon, Baltimore, Md. Submarine vessel	638,342	Dec. 5	291	60, 61	89	1922
Lake, Vincent F. (See Risley and Lake.)						
Lake, Warner G., Oshkosh, Wis. Croquet game	620,460	Feb. 28	3012	689	86	1449
Lakin, Corydon B., Washington, D. C. Respirator	630,242	Aug. 1	948	208	88	910
Lakin, James A., Westfield, Mass. Route-indicating lamp for street-cars	619,965	Feb. 21	2151	488	86	1271
Lakoid Manufacturing Company. (See Field, Walter D., assignor.)						
Lalance & Grosjean Manufacturing Company. (See Ball and Vacheron, assignors.)						
Lamac, John, Jamestown, N. Y. Combined picture-exhibitor and table	623,164	Apr. 18	1805	413	87	380
Lamance, George W. (See Kennedy, Julius A., assignor.)						
Lamar, James S., Grovetown, Ga. Manually-propelled vehicle	626,620	June 6	710	164	87	1753
Lamb, Alfred G., assignor to himself and G. H. Kellogg, Cresco, Iowa. Music-leaf turner	620,043	Feb. 21	2293	520 521	86	1298
Lamb, Amherst G., Torrington, Conn. Carbureter	618,108	Jan. 24	2390	533	86	518
Lamb, Charles M., assignor to Page Woven Wire Fence Company, Adrian, Mich. Feed mechanism for wire-fabric machines	639,409	Dec. 19	2265	523	89	2344
Lamb, Edward M., and E. Bales, Adrian, Mich. Machine for making toothpicks	634,689	Oct. 10	1324	313	89	281
Lamb, George R., Hudson, Mich. Wire-fence lock	636,535	Nov. 7	540	119	89	1030
Lamb, Hiram R., assignor to Lamb Wire Fence Company, Adrian, Mich. Die for joining intersecting wires	628,986	July 18	1942	452	88	415

Alphabetical list of patentees—Continued.

Name, residence, and invention.	No.	Date.	Monthly volume. Spec.	Monthly volume. Drg.	Official Gazette. Vol.	Official Gazette. Page.
Lamb, Hiram R., assignor to Lamb Wire Fence Company, Adrian, Mich. Device for joining intersecting wires	634,648	Oct. 10	1244	296	89	265
Lamb, James L., Trinidad, Colo. Coal-loading apparatus	619,191	Feb. 7	752	163	86	959
Lamb, John W., *et al.* (See Low, Samuel, assignor.)						
Lamb Manufacturing Company. (See Mathewson, Frank E., assignor.)						
Lamb Wire Fence Company. (See Lamb, Hiram R., assignor.)						
Lambert, Albert L., Cleveland, Ohio. Lawn-sprinkler	617,688	Jan. 10	1569	355	86	324
Lambert, Christopher N., Monticello, Ark. Attachment for cultivators and harrows	618,473	Jan. 31	3084	683	86	663
Lambert, Edouard, Paris, France. Machinery for printing in several colors	634,144	Oct. 3	302	77	89	64
Lambert, Edouard, Paris, France. Machinery for printing in several colors	634,145	Oct. 3	305	78	89	64
Lambert, Frank, New York, N. Y. Register	618,359	Jan. 24	2854	634	86	604
Lambert, George W., Orange, Mass. Valve-regulator	626,171	May 30	4138	942	87	1578
Lambert, Gorham, Timaru, assignor to J. Stewart, Pleasant Point, New Zealand. Can for holding liquids	629,571	July 25	3009	702	88	641
Lambert, John C., Tonica, Ill. Wagon-tongue support	630,243	Aug. 1	950	208	88	910
Lambert, John C., Tonica, Ill. Buggy-top	636,150	Oct. 31	4118	942	89	872
Lambert, John C., Tonica, Ill. Automatic rolling cutter for plows	636,342	Nov. 7	187	41	89	958
Lambert, John W., Anderson, Ind. Apparatus for cooling gas-engine cylinders	624,827	May 9	1620	368	87	1038
Lambert, John W., Anderson, Ind. Mixing device for gasolene-engines	634,242	Oct. 3	507	129, 130	89	103
Lambert, Joseph. (See Hook, Charles, assignor.)						
Lambert, Joseph, Battle Creek, Mich. Mill for making nut-butter	625,400	May 23	2634	599	87	1273
Lambert, Julius. (See Schmidt, Louis, assignor.)						
Lambert, Julius J., *et al.* (See Loomis, Harry T., assignor.)						
Lambert, William M., New York, N. Y. Adjustable envelop	634,115	Oct. 3	245	61	89	52
Lambert, William W., *et al.* (See Benham, William B., assignor.)						
Lambing, Isaac P., Denver, Colo. Excavator	625,110	May 16	2126	483	87	1151
Lambkin, Byron M., *et al.* (See Vierengel, Matthew, assignor.)						
Lambkin, Charles H., Mount Vernon, N. Y. Wrench	620,461	Feb. 28	3013	689	86	1449
Lames, William. (See MacKenzie, John, assignor.)						
Laming, John, St. Stephen, Canada. Fire-escape	630,902	Aug. 15	2193	499	88	1188
Lamm, George D., Ackley, Iowa. Straw carrier and stacker	633,202	Sept. 19	1881	443	88	2104
Lamme, Benjamin G., Pittsburg, Pa., assignor to Westinghouse Electric and Manufacturing Company, of Pennsylvania. Direct-current motor and operating same	620,333	Feb. 28	2810	641	86	1411
Lamme, Benjamin G., Pittsburg, Pa., assignor to Westinghouse Electric and Manufacturing Company, of Pennsylvania. Direct-current system of electrical distribution	620,334	Feb. 28	2811	642	86	1411
Lamme, Benjamin G., Pittsburg, Pa., assignor to Westinghouse Electric and Manufacturing Company, of Pennsylvania. Method of and means for varying speed of direct-current motors	620,335	Feb. 28	2813	642	86	1412
Lamme, Benjamin G., Pittsburg, Pa., assignor to Westinghouse Electric and Manufacturing Company, of Pennsylvania. System of electrical distribution and regulation	620,336	Feb. 28	2815	642	86	1412
Lamme, Benjamin G., Pittsburg, Pa., assignor to Westinghouse Electric and Manufacturing Company, of Pennsylvania. Rotary transformer or synchronous motor	626,172	May 30	4140	942	87	1578
Lamme, Benjamin G., Pittsburg, Pa., assignor to Westinghouse Electric and Manufacturing Company, of Pennsylvania. System of electrical distribution	633,855	Sept. 26	3097	719	88	2356
Lamme, Benjamin G., Pittsburg, Pa., assignor to Westinghouse Electric and Manufacturing Company, of Pennsylvania. Dynamo-electric generator	633,857	Sept. 26	3101	719, 720	88	2357
Lamme, Benjamin G., Pittsburg, Pa., assignor to Westinghouse Electric and Manufacturing Company, of Pennsylvania. Current-collector for electrical machines	633,972	Sept. 26	3300	768	88	2397
Lamme, Benjamin G., and J. P. Mallett, Pittsburg, Pa., assignors to Westinghouse Electric and Manufacturing Company, of Pennsylvania. Distributed winding for electrical machines	633,856	Sept. 26	3099	719	88	2357
Lamme, Benjamin G., Pittsburg, and C. E. Skinner, Wilkinsburg, Pa., assignors to Westinghouse Electric and Manufacturing Company, of Pennsylvania. Field-magnet coil for electrical machines	633,858	Sept. 26	3103	720	88	2358
Lammers, Charles A., Cincinnati, Ohio. Marquetry	625,511	May 23	2828	644	87	1311
Lamont, George T., assignor to Whitney-Reed Chair Company, Leominster, Mass. Go-cart	637,210	Nov. 14	1909	409	89	1327
Lamont, Martha, New York, N. Y. Mortising-chisel	627,647	June 27	2688	589	87	2194
Lamothe, Cyrille, Manchester, N. H. Loom-shuttle threader	631,045	Aug. 15	2467	559	88	1242
Lamott, Levy F. (See Granat and Lamott.)						
Lampe, John H. (See Rosenholz and Lampe.)						
Lamper, Eugene W. (See Schwone and Lamper.)						
Lamphere, Franklin, assignor of one-half to E. A. Hulett, Armada, Mich. Colter-cleaning device	618,884	Feb. 7	119	25	86	827
Lamplough, Frederick, London, England. Heat-regulating device	629,375	July 25	2647	614, 615	88	570
Lamplough, Frederick, assignor to Volenite, Limited, London, England. Manufacturing a substance having insulating properties	618,692	Jan. 31	3485	779	86	740
Lamplough, Frederick, assignor to Volenite, Limited, London, England. Apparatus for manufacturing material having insulating properties	625,172	May 16	2223	503, 504	87	1169
Lamplugh, Henry A., Birmingham, England. Bicycle, &c	628,820	July 11	1645	380	88	342
Lamprecht, Rodolphe de. (See Swaab and Lamprecht.)						
Lamson Consolidated Store Service Company. (See Ames, Oakes, assignor.)						
Lamson Consolidated Store Service Company. (See Amsden, George A., assignor.)						
Lamson Consolidated Store Service Company. (See Cowley, James T., assignor.)						
Lamson Consolidated Store Service Company. (See Goodfellow, John H., assignor.)						
Lamson Consolidated Store Service Company. (See Pearsall, Albert W., assignor.)						
Lanahan, James J., Buffalo, N. Y. Oil-cup	632,129	Aug. 29	4457	1003	88	1661
Lancaster, Charles F., assignor of one-half to E. A. Morford, Petoskey, Mich. Repair-patch for pneumatic tires	639,064	Dec. 12	1602	368	89	2198
Land, Charles H., Detroit, Mich. Dental filling material	639,585	Dec. 19	2574	591	89	2407
Landau, Adolph, New York, N. Y. Slide-buckle	631,082	Aug. 15	2539	575	88	1256
Landau, Katherine E., New York, N. Y. Life-preserver	626,283	June 6	119	30	87	1636
Landé, Frederic M. (See Knight and Landé.)						
Landenberger, Charles H., Philadelphia, Pa. Apparatus for playing and studying whist	623,376	Apr. 18	2180	501	87	455
Landenberger, Julius. (See Bruhns, Julius, assignor.)						
Lander, Frederick J., assignor of one-half to M. L. Young, Rochester, N. Y. Syringe	632,728	Sept. 12	997	232	88	1918
Landers, Frary & Clark. (See Smith, Charles F., assignor.)						
Landers, Frary & Clark. (See Smith, James A., assignor.)						
Landini, Jules. (See Schmidt and Landini.)						
Landis, Abraham B., Waynesborough, Pa. Carriage-operating mechanism for grinding-machines	639,900	Dec. 26	3159	727, 728	89	2540
Landis, Abraham B., Waynesborough, Pa. Emery-wheel truer for grinding-machines	639,901	Dec. 26	3162	728	89	2541

Alphabetical list of patentees—Continued.

Name, residence, and invention.	No.	Date.	Monthly volume.		Official Gazette.	
			Spec.	Dr'g.	Vol.	Page.
Landis, Ezra F., La Salle, N. Y. Spraying plants	632,418	Sept. 5	373	85	88	1780
Landis, Frank F., Waynesborough, Pa. Threshing-machine cylinder	618,360	Jan. 24	2855	634	86	605
Landis, Frank F., Waynesborough, Pa. Pneumatic elevator and conveyer	618,361	Jan. 24	2857	635	86	605
Landis, Harry S. (See Landis, Leonidas H. and H. S.)						
Landis, Leonidas H. and H. S., Orangevale, Cal. Tree balling and transferring device	625,041	May 16	1987	444	87	1126
Landon, A Archer, assignor of one-third to Kalamazoo Spring and Axle Company, Kalamazoo, Mich. Pneumatic tongs	636,223	Oct. 31	4252	978	89	899
Landon, Edmund A., Penn Yan, N. Y. Lawn-mower	619,192	Feb. 7	754	163	86	959
Landon, Judson S., Schenectady, N. Y. Wind-motor	640,003	Dec. 26	3351	767	89	2580
Landrum, John E., Sr., G. F. Dillon, and John E. Landrum, Jr., Canterbury, Ohio. Acetylene-gas machine	634,690	Oct. 10	1325	314	89	281
Landrum, Tom J. (See Tubbs, Nelson J., assignor.)						
Landsberger, Aron. (See Ullmann, Fritz, assignor.)						
Lane, Almeron M., Meriden, Conn. Clock	637,876	Nov. 28	3530	739	89	1724
Lane, Almeron M., Meriden, Conn. Striking clock	639,586	Dec. 19	2575	591	89	2407
Lane, Almeron M., Meriden, Conn. Clock-setting mechanism	639,587	Dec. 19	2577	592	89	2408
Lane, Charles B. and W. J., Milo, Mo. Windmill	626,814	June 13	1095	246	87	1844
Lane, Charles C., Los Angeles, Cal. Ore-crushing machine	623,088	Apr. 11	1620	373	87	330
Lane, Franklin L., assignor to Berlin Machine Works, Beloit, Wis. Feed-roll	621,103	Mar. 14	1069	233	86	1720
Lane, Frederic A. (See Morgan and Lane.)						
Lane, Frederick, assignor to Crosby Steam Gage and Valve Company, Boston, Mass. Whistle-valve	636,907	Nov. 14	1300	280	89	1211
Lane, Frederick A., Waterville, Me. Fly-trap	632,313	Sept. 5	196	44	88	1745
Lane, George F., and S. Comeau, Kingston, Mass. Machine for picking berries	634,735	Oct. 10	1415	333	89	299
Lane, John H. (See Dwyer and Lane.)						
Lane, John J., St. Louis, Mo. Air bed or cushion	622,239	Apr. 4	71	17	87	17
Lane, John M., deceased, Ovid, Mich.; M. A. Boerem, administratrix, assignor, by mesne assignments, to C. K. and J. R. Schoonover, New York, N. Y. Wind-guard for windows or doors	637,623	Nov. 21	3054	631	89	1608
Lane, Marcus, Freeport, Ill. Spring-hinge	625,779	May 30	3310	752	87	1423
Lane, William, and A. Doney, Pen Argyl, assignors of one-third to L. W. Morse, Scranton, Pa. Changeable gear for bicycles	625,111	May 16	2127	483	87	1151
Lane, William, and A. Doney, Pen Argyl, assignors of one-third to L. W. Morse, Scranton, Pa. Driving mechanism for cycles	628,585	July 11	1194	279	88	250
Lane, William, and A. Doney, Pen Argyl, assignors of one-third to L. W. Morse, Scranton, Pa. Changeable gear for bicycles	630,291	Aug. 1	1033	227	88	926
Lane, William J. (See Lane, Charles B. and W. J.)						
Laney, William S., Lithopolis, Ohio, assignor of one-half to N. Schiller, Kansas City, Mo. Mechanical motor	625,691	May 23	3129	711	87	1370
Lanfair, Herbert D. (See Goodell and Lanfair.)						
Lang, Breet L. (See Bee, Harley L., assignor.)						
Lang, Gustav, St. Louis, Mo. Grocers' bin	631,508	Aug. 22	3310	752	88	1426
Lang, Jacob, and R. Berger, Paterson, N. J. War game	618,277	Jan. 24	2708	601	86	576
Lang, Johannes E., Berne, Switzerland. Material for debasing alcohol	618,207	Jan. 24	2589		86	554
Lang, John W., Toronto, Canada. Radiator	623,609	Apr. 25	2602	594	87	556
Lang, Lincoln A., Yule, N. D., assignor of one-half to E. F. Walsh, St. Paul, Minn. Locomotive valve-gear	621,828	Mar. 28	2400	536	86	2007
Lang, Lincoln A., Yule, N. D., assignor of one-half to E. F. Walsh, St. Paul, Minn. Valve-gear	621,829	Mar. 28	2401	536	86	2007
Lang, Lincoln A., Yule, N. D., assignor of one-half to E. F. Walsh, St. Paul, Minn. Valve-gear	637,345	Nov. 21	2177	469	89	1395
Lang, Lincoln A., Yule, N. D., assignor of one-half to E. F. Walsh, St. Paul, Minn. Valve-gear	637,346	Nov. 21	2178	469	89	1396
Lang, Mary, Port Hope, Canada. Blouse or waist and skirt and belt connector	632,923	Sept. 12	1363	314	88	1990
Lang, Wilhelm, Griesheim, C. Pistor, and M. Otto, Bitterfeld, assignors to Chemische Fabrik Griesheim, Frankfort-on-the-Main, Germany. Purifying caustic alkalies	623,918	Apr. 25	3182		87	667
Lang, William J., Oyens, Iowa. Adjustable washstand	625,271	May 16	2402	{544 545	{87	1202
Lange, Carl O., assignor to G. W. Onken, Hamburg, Germany. Carbureter	623,725	Apr. 25	2790	638	87	591
Lange, Carl O., assignor to G. W. Onken, Hamburg, Germany. Automatic cut-off for pumps	635,258	Oct. 17	2356	550	89	498
Lange, George C. O., Cresskill, N. J., assignor to Manhattan Optical Company, New York, N. Y. Photographic shutter	617,900	Jan. 17	2002	446	86	429
Lange, Henry C., *et al.* (See Walter, Franklin, assignor.)						
Langenbach, Gustav, Grabow, Germany. Smoke-consuming furnace	630,460	Aug. 8	1423	{318 319	{88	1014
Langer, Gotthold, St. Louis, Mo. Range-finder	630,244	Aug. 1	951	{208 209	{88	910
Langer, Gotthold, assignor of one-half to E. H. Vordtriede, St. Louis, Mo. Combined level and angle-measuring device	621,258	Mar. 14	1338	297	86	1773
Langjahr, William A., Plymouth, Wis. Punching-machine	629,862	Aug. 1	198	45	88	759
Langkrahr, Fritz. (See Korsmeyer, Ernst H., assignor.)						
Langmuir, Woodburn, New York, N. Y. Rubber tire	627,672	June 27	2729	598	87	2202
Langrenne, Emile. (See Rousset, Constance, assignor.)						
Langston, Frederick B., New York, N. Y. Mooring device	631,168	Aug. 15	2684	606	88	1283
Langton, Alfred, London, England. Water-tube steam-generator	618,693	Jan. 31	3488	779	86	741
Langwith, Frank A. (See Cort and Langwith.)						
Langworthy, David I., assignor of seven-tenths to L. D. Langworthy, Syracuse, and F. L. Strong, New York, N. Y. Street-sweeper	622,372	Apr. 4	299	69, 70	87	57
Langworthy, Lynn D., *et al.* (See Langworthy, David I., assignor.)						
Lanier, Camillus G. (See Walker, Albert W., assignor.)						
Lanier, Camillus G., Winston, N. C. Printing-press	625,572	May 23	2935	666	87	1332
Lanier, Edward H., Memphis, Tenn. Device for use in writing	617,169	Jan. 3	595	139	86	116
Laning, Jay F., Norwalk, Ohio. Manifolding sales-book	635,259	Oct. 17	2356	550	89	498
Laning, Leroy W., Cincinnati, Ohio. Combination head and signal light	620,937	Mar. 14	743	163	86	1659
Lanius, John, Galion, Ohio. Car-replacer	620,462	Feb. 28	3015	{689 690	{86	1450
Lankford, William J., assignor of one-half to C. M. Grant, Topeka, Kans. Bag-fastener	636,436	Nov. 7	350	79	89	992
Lannert, John A., and W. R. Jeavons, assignors to United Blue Flame Stove Company, Cleveland, Ohio. Burner	617,293	Jan. 3	822	192	86	162
Lanphear, Lewis C., Boston, Mass. Feed-water heater	631,426	Aug. 22	3160	717	88	1396
Lans, Andrew C., Rib Lake, Wis. Tool	623,792	Apr. 25	2945	673	87	622
Lanser, Nicholas, Allegheny, Pa. Non-refillable bottle	619,966	Feb. 21	2153	488	86	1272
Lanser, Nicholas, Allegheny, Pa. Filter	634,691	Oct. 10	1329	314	89	281

Alphabetical list of patentees—Continued.

Name, residence, and invention.	No.	Date.	Monthly volume. Spec.	Monthly volume. Dr'g.	Official Gazette. Vol.	Official Gazette. Page.
Lansing, Harry W. (See Bostrom, Fritz W., assignor.)						
Lansing, J. A. (See Frank, George E., assignor.)						
Lanston Monotype Machine Company. (See Bancroft, John S., assignor.)						
Lanston Monotype Machine Company. (See Bancroft and Wood, assignors.)						
Lanston Monotype Machine Company. (See Lanston, Tolbert, assignor.)						
Lanston Monotype Machine Company. (See Lorenz, William A., assignor.)						
Lanston, Tolbert, assignor to H. Hollerith, Washington, D. C. Adding-machine	622,157	Mar. 28	3006	680, 681, 682, 683	86	2126
Lanston, Tolbert, assignor to Lanston Monotype Machine Company, Washington, D. C. Type-casting and composing machine	633,088	Sept. 12	1627	379, 380, 381, 382, 383, 384, 385, 386, 387, 388, 389, 390, 391, 392	88	2043
Lanterman, Alvan P., Chicago, Ill. Dental tool	625,401	May 23	2635	599	87	1274
Lantz, Albert C., Cottondale, Tex. Tool-handle and tool	631,427	Aug. 22	3161	717	88	1396
Lantzke, Albert, assignor to New York Asbestos Manufacturing Company, New York, N. Y. Fireproofing material	624,828	May 9	1622	368	87	1039
Lanyon, Josiah. (See Lanyon, William and J.)						
Lanyon, William and J., Pittsburg, Kans. Buckstay	621,576	Mar. 21	1918	428	86	1897
Lanyon, William and J., Pittsburg, Kans. Furnace-shield	621,577	Mar. 21	1920	429	86	1898
Lanz, John, assignor to Carnegie Steel Company, Limited, Pittsburg, Pa. Press for shaping metal	634,528	Oct. 10	1041	248, 249	89	225
Lanz, John, assignor to Carnegie Steel Company, Limited, Pittsburg, Pa. Pole or column	634,692	Oct. 10	1330	315	89	282
Lanz, John, assignor to Carnegie Steel Company, Limited, Pittsburg, Pa. Clamp for poles or columns	634,693	Oct. 10	1331	315	89	282
Lanzone, Edward, South River, N. J. Kiln	627,343	June 20	2087	461	87	2060
Lapaugh, Louis T., Utica, N. Y. Lock for bicycles	624,949	May 16	1840	414	87	1098
Lape, John W., assignor of one-half to W. H. Rinehart, Mansfield, Ohio. Smoke and odor consumer	620,870	Mar. 7	622	136	86	1625
Lapierre, Adelard, Montreal, Canada. Sleeping-bag	622,812	Apr. 11	1128	261	87	233
Lapish, Joseph S., assignor of one-half to U. G. Merrill, American Fork, Utah. Retaining-valve	637,134	Nov. 14	1759	378	89	1298
Laplace, Ulysse, New Orleans, La. Filter attachment for centrifugal machines	630,365	Aug. 8	1202	264	88	976
Laplante, Philias, administrator. (See Plant, Anthony.)						
Lapp, Henry L., Bird in Hand, Pa. Shutter-bolt	618,958	Feb. 7	294	64	86	868
Lapp, William A., Stephentown, N. Y. Thill-coupling	621,926	Mar. 28	2588	583	86	2042
Lapp, William A., Stephentown, N. Y. Thill-coupling	639,253	Dec. 19	1956	450	89	2282
Lappe, Christian E. and H. A., Pittsburg, Pa. Manufacturing and finishing leather	622,926	Apr. 11	1342	------	87	274
Lappe, Henry A. (See Lappe, Christian E. and H. A.)						
Lapthorne, Samuel J. (See McCormac and Lapthorne.)						
Lara, Arthur M., Minneapolis, Minn. Carbureter	623,321	Apr. 18	2084	477	87	436
Lard, Allan E., St. Joseph, Mo. Trigger mechanism for firearms	630,061	Aug. 1	637	139	88	849
Lard, Allan E., St. Joseph, Mo. Single-trigger firearm	636,050	Oct. 31	3901	896	89	829
Larew, Henry, Butte, Mont. Shoe-lace fastener	640,004	Dec. 26	3353	767	89	2580
Larimer, J. B., trustee. (See Comstock, Francis M., assignor.)						
Larimer, John J., Crabtree, Pa. Combined door check and spring	639,816	Dec. 26	3021	695	89	2514
Lariviere, Joseph N., *et al.* (See Feher, Odilon, assignor.)						
Lark, William. (See Zuck, John G., assignor.)						
Larkin, Bernard H. (See Norton and Larkin.)						
Larkin, Francis, Jr., *et al.* (See Freeman, Warren P., assignor.)						
Larkin, George F., Newark, N. J. Hat-block chuck	624,225	May 2	511	109	87	797
Larkin, George F., Newark, N. J. Hat-ironing machine	631,017	Aug. 15	2409	547, 548	88	1230
Larkin, George H. (See Patton, Alva A., assignor.)						
Larkin, W. H. (See Palm, George, assignor.)						
Larrabee, Albert E., Bristol, Pa. Folding ventilated head-rest and bed-bottom	622,501	Apr. 4	560	131, 132	87	106
Larsen, Eduard, Copenhagen, Denmark. Apparatus for dry distillation of wood, coal, &c.	635,260	Oct. 17	2357	550, 551	89	498
Larsen, Ivert, Chicago, Ill. Door-check	617,106	Jan. 3	472	113	86	93
Larsen, Ivert, assignor to Chicago Handle Bar Company, Chicago, Ill. Adjusting device for handle-bars	626,836	June 13	1155	256	87	1855
Larson, Carl W., Schenectady, N. Y., assignor to General Electric Company, of New York. Trolley	619,320	Feb. 14	989	223	86	1023
Larson, Frederick, Chelsea, Mass. Door-hanger	629,165	July 18	2271	526	88	479
Larson, Walfrid, Kingsburg, Cal. Tire-bolt wrench	623,793	Apr. 25	2947	673	87	622
Larsson, Anders O., and K. H. J. Kollén, Gothenburg, Sweden; said Larsson assignor to said Kollén. Framing for bedsteads or other furniture	622,502	Apr. 4	562	132	87	106
Larsson, Carl A. (See Buckham and Larsson.)						
Larzelere, Washington L., Cincinnati, Ohio. Changeable sign for street-car purposes	636,732	Nov. 7	953	205	89	1125
Lasch, Albin, Penzig, Germany. Hollow glass block	628,821	July 11	1646	380	88	342
Laschet, Nicolas J., Darmstadt, Germany, assignor to Siemens & Halske Electric Company of America, Chicago, Ill. Dynamo-electric machine	635,489	Oct. 24	2841	649	89	609
Lash, George E., Elkhart, Ind. Rotary motor	637,135	Nov. 14	1762	378	89	1299
Lash, Horatio W. (See Ward and Lash.)						
Lash, John F., Toronto, Canada. Door-check. (Reissue)	11,767	Aug. 29	4630	1043	88	1694
Lash, Myron. (See McGhee, Nicholas B., assignor.)						
Lasher, Charles W., Davenport, Iowa. Tub	629,863	Aug. 1	199	45	88	759
Lasher, Frank, and C. S. Beach, assignors to Lasher Stocking Company, Bennington, Vt. Knitting-machine	632,872	Sept. 12	1253	286, 287, 288, 289, 290, 291, 292, 293	88	1971
Lasher Stocking Company. (See Lasher and Beach, assignors.)						
Laskey, Stephen, Chicago, Ill. Presser-foot for sewing-machines	617,751	Jan. 17	1690	380	86	369

Alphabetical list of patentees—Continued.

Name, residence, and invention.	No.	Date.	Monthly volume.		Official Gazette.	
			Spec.	Drg.	Vol.	Page.
Lassig, John E. (See Cottrell, Herbert, assignor.)						
Lassiter, Joseph C., Greensborough, N. C. Hammock and elevator	635,261	Oct. 17	2359	551	89	499
Latham, Albert, Springfield, Mass. Cash-register	619,763	Feb. 21	1774	407 408	86	1199
Latham, Albert, Springfield, Mass. Cash-register	619,764	Feb. 21	1777	408	86	1200
Latham, Albert, Springfield, Mass. Screw-cutting machine	631,576	Aug. 22	3446	778 779	88	1454
Latham, Albert, Springfield, Mass. Cash-register	635,860	Oct. 31	3538	813 814	89	757
Latham, Charles W., *et al.* (See Keith, Frank L., assignor.)						
Latham, Chester A., Wichita, Kans. Antifriction-bearing	618,543	Jan. 31	3217	714	86	688
Latham, Chester A., Wichita, Kans. Card game	622,240	Apr. 4	72	17	87	17
Lathem, Page A., Gainesville, Ga. Window-blind	633,521	Sept. 19	2476	583	88	2219
Lathrop, Frank K., assignor to Ohio Rake Company, Dayton, Ohio. Corn-planter	635,490	Oct. 24	2843	649	89	610
Latilla, Herbert G., *et al.* (See King, Charles B., Jr., assignor.)						
Latimer, Alvah O., and W. D. Crenshaw, Cedar Rapids, Iowa. Beer-pump attachment	620,463	Feb. 28	3016	690	86	1450
Latimer, Frank, Huntley, Ill. Vehicle-wheel	624,950	May 16	1842	414	87	1098
Latimer, Frank, Huntley, Ill. Tire for vehicle-wheels	633,652	Sept. 26	2745	639	88	2285
Latimer, James F., assignor of one-half to F. Donovan, G. Stevenson, and J. S. Fullerton, Toronto, Canada. Apparatus for extracting precious metals from rock, sand, &c.	636,675	Nov. 7	806	178	89	1085
Latimer, Nellie B. (See Weeks, Curran C., assignor.)						
Latta, Emmit G., Friendship, N. Y. Velocipede crank-shaft	638,021	Nov. 28	3803	799	89	1777
Latta, Emmit G., Friendship, N. Y. Velocipede-bearing	639,410	Dec. 19	2266	523	89	2345
Latta, Emmit G., Friendship, N. Y., assignor to Pope Manufacturing Company, Portland, Me. Velocipede	638,343	Dec. 5	296	61	89	1923
Latty, Henry T. (See Latty and Sleffel.)						
Latty, Samuel D. and H. T., and W. J. Sleffel; said Sleffel assignor to Kirk-Latty Manufacturing Company, Cleveland, Ohio. Metal-forming machine	632,577	Sept. 5	676	156	88	1840
Latzar, Isidor, *et al.* (See Johnston, Edward A., assignor.)						
Lau, Willy H., Chicago, Ill. Electric and combined electric and gas chandelier or bracket	621,104	Mar. 14	1070	233	86	1721
Laub, George H., Independence, Ind. Pump	639,065	Dec. 12	1602	368	89	2198
Laube, Godfried, Huron, S. D., and J. B. Kinney, Chattanooga, Tenn. Creaming-can	631,218	Aug. 15	2762	625	88	1300
Lauber, Otto. (See Resow and Lauber.)						
Lauch, Alphonse J., assignor to C. F. Whitmore, Kankakee, Ill. Frame for measuring spectacles	638,727	Dec. 12	1036	232	89	2088
Lauer, Anton J., Milwaukee, Wis. Box-fastener	626,329	June 6	210	51	87	1653
Lauer, John, Moodyville, Kans. Veterinary instrument	631,646	Aug. 22	3557	802	88	1476
Lauer, Victor, and F. C. Klossner, Little Berger, Mo. Automatic brake	620,153	Feb. 28	2187	566	86	1350
Laughlin, Alexander, Sewickley, Pa. Annealing-furnace	629,510	July 25	2919	679	88	624
Laughlin, Henry A., *et al.* (See Fuller, Willard M., assignor.)						
Laughner, E. E., *et al.* (See Porter and McKelvey, assignors.)						
Laughton, George W., New York, N. Y. Feed-water heater and purifier	629,723	July 25	3289	767	88	695
Laumann, Thomas B., Wapanucka, Ind. Ter. Animal-releasing device	631,372	Aug. 22	3054	691	88	1375
Laumeister, Charles S. (See Holloway, James C., assignor.)						
Laun, Ernest E. and H. W., Chicago, Ill. Acetylene-gas generator	627,303	June 20	2002	440	87	2043
Laun, Henry W. (See Laun, Ernest E. and H. W.)						
Laupheimer, Robert, Baltimore, Md. Refrigerator or cold-storage receptacle	629,572	July 25	3010	703	88	641
Laureau, Louis G. (See Menkens, John H., assignor.)						
Laval, George de, Cambridge, Mass., assignor to Geo. F. Blake Manufacturing Company, New York, N. Y. Steam-engine for direct-acting pumps	627,304	June 20	2005	441	87	2043
Lavanburg, Fred L. (See Hore, Charles E., assignor.)						
Lavanchy, Oscar, Vevey, Switzerland. Tire for cycles or other wheels	637,469	Nov. 21	2396	519	89	1440
Laveen, Henry. (See Huntsberry and Laveen.)						
Lavell, John R. (See Perrin, William H., assignor.) (Reissue.)						
Lavender, John R., Charleston, W. Va. Non-refillable bottle	616,944	Jan. 3	158	35	86	32
Lavery, George L., Chicago, Ill. Acetylene-gas generator	637,513	Nov. 21	2473	537	89	1454
Laviers, Henry, Wellston, Ohio. Bicycle-frame	638,396	Dec. 5	404	85	89	1943
Lavigne Automatic Manufacturing Company. (See Lavigne, Joseph P., assignor.)						
Lavigne, George J., assignor of one-half to A. Chadwick, New Haven, Conn. Micrometer-gage	620,337	Feb. 28	2817	642	86	1412
Lavigne, Joseph P., New Haven, Conn., assignor to Lavigne Automatic Manufacturing Company, Paterson, N. J. Turret-lathe	623,322	Apr. 18	2085	478	87	436
Lavigueur, Joseph R., Montreal, Canada. Combined door stop and catch	621,830	Mar. 28	2403	537	86	2007
Lavocat, Antoine, Lyons, France. Composition for closing punctures in pneumatic tires	618,694	Jan. 31	3489		86	741
Lavoie, Joseph, and J. F. Chazotte, assignors of one-third to A. Carmel, Montreal, Canada. Extension fire-ladder	635,440	Oct. 24	2759	631 632	89	593
Law, Charles J., Mercer, Pa. Coin-controlled air-pump for bicycle-tires	617,811	Jan. 17	1827	408	86	395
Law, John R. K., Glasgow, Scotland. Driving-gear for cycles	623,323	Apr. 18	2088	479	87	437
Law, Myron D., New York, N. Y., assignor to Love Elcctric Traction Company, Chicago, Ill. Conduit-railway	634,623	Oct. 10	1210	287	89	257
Law, Robert. (See Prophitt, Annie B., assignor.)						
Law, Samuel H., New York, N. Y. Bicycle attachment	639,588	Dec. 19	2578	592	89	2408
Law, William I., New York, N. Y. Means for washing dishes	629,082	July 18	2122	494	88	451
Lawbaugh, George W., Geneseo, Ill. Chopping-knife	627,429	June 20	2269	501	87	2095
Lawes, Walter, New Bedford, Mass. Insole	635,559	Oct. 24	2961	677	89	632
Lawler, James G., St. Charles, Mo. Brake-beam	638,638	Dec. 5	850	184	89	2029
Lawler, James J., Mount Vernon, N. Y. Fitting for wrought-metal pipes	622,897	Apr. 11	1292	298	87	264
Lawler, James J., Mount Vernon, N. Y. Radiator for heating and ventilating	635,861	Oct. 31	3541	814	89	758
Lawless, James T., Toledo, Ohio. Storm-curtain for carriage-tops	617,294	Jan. 3	824	192	86	163
Lawrence, Adelbert G., Motley, Minn. Band-saw mill	619,490	Feb. 14	1275	292	86	1078
Lawrence, Adelbert G., Motley, Minn. Shifting mule-pulley	619,491	Feb. 14	1279	292 293	86	1079
Lawrence, Charles H., Detroit, Mich. Closet	639,589	Dec. 19	2580	592	89	2408
Lawrence, Frank G., Chicago, Ill. Self-heating sad-iron	624,054	May 2	190	41	87	739
Lawrence, George B. (See Arnot, William D., assignor.)						
Lawrence, Herman A., *et al.* (See Prior, George A., assignor.)						
Lawrence, Hugh E. (See Kane, Frank, assignor.)						
Lawrence, James C. (See Howard, Lewis, assignor.)						
Lawrence, Joseph L., assignor of one-half to C. Thomas & Co., Boston, Mass. Hansom-cab	618,039	Jan. 17	2243	500	86	475
Lawrence, Joseph L., Boston, Mass., assignor of one-half to Chauncey Thomas & Company, Incorporated, of Maine. Hansom-cab. (Reissue)	11,734	Apr. 18	2404	552	87	501
Lawrence, Mary E., Waterbury, Conn. Garment-supporter	620,938	Mar. 14	745	163	86	1659
Lawrence, Willett W., Geneva, N. Y. Fountain-brush	624,055	May 2	191	41	87	739

Alphabetical list of patentees—Continued.

Name, residence, and invention.	No.	Date.	Monthly volume. Spec.	Monthly volume. Dr'g.	Official Gazette. Vol.	Official Gazette. Page.
Lawrence, William, New York, N. Y. Rotary-cylinder engine	628,945	July 18	1872	434	88	401
Lawrence, William A. (See Whiting and Lawrence.)						
Lawrence, William H., Pollokshields, Scotland. Milking apparatus	628,338	July 4	736	170, 171	88	142
Laws, George, Philipsburg, Pa. Shovel	628,202	July 4	458	110	88	91
Lawson, Benjamin S., Red Bank, N. J., assignor of three-fourths to A. L. and E. M. Merrick and A. J. De Mott, Syracuse, N. Y. Bearing	628,479	July 11	993	230	88	211
Lawson, Benjamin S., Red Bank, N. J., assignor of three-fourths to A. L. and E. M. Merrick and A. J. De Mott, Syracuse, N. Y. Journal-box	628,480	July 11	994	231	88	212
Lawson, Benjamin S., Red Bank, N. J., assignor of three-fourths to A. L. and E. M. Merrick and A. J. De Mott, Syracuse, N. Y. Power-transmitting mechanism	634,174	Oct. 3	352	90	89	73
Lawson, Charles. (See Hearne and Lawson.)						
Lawson, Emanuel. (See Clapp and Lawson.)						
Lawson, Henry J., London, England. Motor-vehicle	633,014	Sept. 12	1503	349, 350, 351	88	2018
Lawson, John C., London, England. Machine for cutting, forming, and delivering blocks or pats of butter	623,165	Apr. 18	1806	413, 414	87	380
Lawson, Lindley S., Homestead, Pa. Gas-burner	626,387	June 6	333	76	87	1678
Lawther, Alfred B., Syracuse, N. Y. Apparatus for measuring frictional resistances between bodies in sliding contact	634,007	Oct. 3	47	14, 15	89	13
Lawton, Albert L. (See Lawton, Charles F., A. L., and A. W.)						
Lawton, Arthur W. (See Lawton, Charles F., A. L., and A. W.)						
Lawton, Burton L. (See Egan, Lawton, and Wilcox.)						
Lawton, Burton L., and E. C. Wilcox, Meriden, Conn. Combined lightning-arrester and fusible cut-out	617,170	Jan. 3	596	140	86	117
Lawton, Cecilia, Charleston, S. C. Sugar or salt shaker	617,489	Jan. 10	1196	272	86	252
Lawton, Cecilia, Charleston, S. C. Salt-cellar	617,490	Jan. 10	1197	272	86	252
Lawton, Charles A. (See Field, Wallace L., assignor.)						
Lawton, Charles A. (See Field and Lawton.)						
Lawton, Charles F., A. L., and A. W., Washington, D. C. Treating tiles	623,919	Apr. 25	3184	------	87	668
Lawton, Charles F., A. L., and A. W., New York, N. Y. Cement	637,211	Nov. 14	1911	------	89	1327
Lawton, Charles H., Wabash, Ind. School furniture	636,816	Nov. 14	1119	240	89	1175
Lawton, L. T. (See Cody, Robert D., assignor.)						
Lawton-Sherman Company. (See Sherman, Frank I., assignor.)						
Lawton, William. (See Moran, John T., assignor.)						
Lay, Elbirt C., and G. E. Toliver, Luttrell, Tenn. Rotary steam-engine	631,169	Aug. 15	2686	607	88	1284
Lay, Robert J., assignor of one-half to J. Jenkins, Jr., Shawnee, Ohio. Shawl-strap or bundle-carrier	622,958	Apr. 11	1398	322	87	285
Lay, Robert R., Rochester, N. Y. Scoop and fork	624,661	May 9	1303	291	87	975
Laycock, William S., Sheffield, England. Horseshoe-pad	639,743	Dec. 26	2880	664	89	2486
Layes, Jacob F., Lenville, Idaho. Combined miner's candlestick and fuse implement	619,765	Feb. 21	1782	409	86	1201
Layfield, Edward R. (See Spencer and Layfield.)						
Layman, James T. (See Dalbey, William H., assignor.)						
Layman, Waldo A., and F. Schwedtmann, St. Louis, Mo. Means for regulating constant-potential transformers	635,786	Oct. 31	3392	783, 784	89	730
Layng, George. (See Whittle and Layng.)						
Lazarus, Alfred C. (See Whitney and Lazarus.)						
Le Blanc, Max, Frankfort-on-the-Main, and H. Reisenegger, assignors to Farbwerke, vormals Meister, Lucius & Brüning, Höchst-on-the-Main, Germany. Producing chromic acid by electrolysis	630,612	Aug. 8	1694	------	88	1067
Le Clear, Gifford. (See Densmore and Le Clear.)						
Le Compte, Edward P., Park City, Utah. Blacking-brush	634,059	Oct. 3	128	32	89	29
Le Duc, Henry M., Washington, D. C. Antifriction-roller	624,506	May 9	1030	232	87	219
Le Fevre, Edward, Rosendale, Wis. Adding-machine	638,252	Dec. 5	97	22	89	1885
Lé Gras, Bailey D., New Orleans, La., assignor to Brandon Printing Company, Nashville, Tenn. Index	629,573	July 25	3012	703	88	642
Le Hane, Michael H., *et al.* (See Walsh, William J., assignor.)						
Le May, Ernest, Fall River, Mass. Weather-strip	627,264	June 20	1933	426	87	2029
Le Mon, James, New York, N. Y., assignor of one-half to F. C. von Heydebrand und der Lasa. Sliding and swinging window	622,927	Apr. 11	1343	308	87	274
Le Pontois, Léon, assignor of five-eighths to J. V. Patton and W. S. Haugh, Pittsburg, Pa. Fluid-pressure generator	617,753	Jan. 17	1693	380, 381	86	369
Le Van, Daniel B., Caldwell, Idaho. Barrel-tongs	630,366	Aug. 8	1204	264	88	976
Lea, Edward S., assignor to Lea Manufacturing Company, Elwood, Ind. Electric-arc lamp	635,862	Oct. 31	3543	815	89	758
Lea, James P. (See Thornton and Lea.)						
Lea Manufacturing Company. (See Lea, Edward S., assignor.)						
Lea, Robert R., Dwight, N. D. Work-holder	628,822	July 11	1647	381	88	342
Leach, James, Chorley, England. Bicycle-support	617,171	Jan. 3	598	140	86	117
Leach, Joseph, assignor of one-half to R. Collinge, Indianapolis, Ind. Dash-rail for vehicles	632,354	Sept. 5	261	61	88	1758
Leach, Thomas. (See Stafford, Charles S., assignor.)						
Leach, Walter, assignor of three-fourths to John Smith & Sons, Limited, Bradford, England. Purifying liquors from wool-washings	632,419	Sept. 5	374	85, 86	88	1780
Leachman, William B. (See Nussey and Leachman.)						
Leadam, Lionel H., New York, N. Y. Tree for boots or shoes	621,423	Mar. 21	1630	362	86	1842
Leadam, Lionel H., New York, N. Y. Boot-tree	621,424	Mar. 21	1631	362	86	1843
Leadbeater, John W., Leeds, England. Artificial fuel	622,373	Apr. 4	301	------	87	58
Leadbeater, John W., Leeds, England. Combustible compound	622,374	Apr. 4	303	------	87	58
Leadbetter, George D., Detroit, Mich. Perambulator	622,503	Apr. 4	563	132	87	106
Leaf, Edwin A. (See Holmberg, Peter A., assignor.)						
Leaf, John A., Jefferson, Tex. Saw-guide	639,411	Dec. 19	2268	523	89	2345
Leak, Howard A., St. Louis, Mo. Packing for bottles or the like	625,780	May 30	3311	752	87	1424
Leaming, Silas T., Jr., assignor of one-half to S. T. Leaming, Wauwatosa, Wis. Trolley	622,813	Apr. 11	1129	261	87	233
Learned, John B., Northampton, Mass. Calf-feeder	631,798	Aug. 29	3357	859	88	1542
Leather, Joseph, Liverpool, England. Ventilator	622,375	Apr. 4	304	70	87	58
Leather, Joseph, Liverpool, England. Ventilating appliance	634,301	Oct. 3	624	152	89	125
Leatherman, Richard B., Winchester, Va. Wire-fence stay	617,442	Jan. 10	1123	256	86	237
Leavel, David C. (See Wood, Benjamin F., Jr., assignor.)						
Leaver, James M., assignor, by mesne assignments, to L. A. Hall and R. H. Munson, Bay Mills, Mich. Door-shutter or like article	629,448	July 25	2782	646	88	598
Leaver, James M., assignor to L. A. Hall and R. H. Munson, Bay Mills, Mich. Door	636,817	Nov. 14	1120	240	89	1175
Leavitt, Frank M., assignor to E. W. Bliss Company, New York, N. Y. Press for working sheet metal	620,659	Mar. 7	219	45	86	1544
Leavitt, Frank M., assignor to E. W. Bliss Company, New York, N. Y. Atmospheric steam-engine	639,744	Dec. 26	2881	664	89	2487

Alphabetical list of patentees—Continued.

Name, residence, and invention.	No.	Date.	Monthly volume.		Official Gazette.	
			Spec.	Dr'g.	Vol	Page.
Leavitt, George A., Danvers, Mass. Barrel clamp and cap	625,573	May 23	2936	666	87	1332
Leaycraft, Edwin S., Jersey City, N. J. Bicycle-brake	637,267	Nov. 21	2013	431	89	1363
Lebcher, Chester B., Miles City, Mont. Trolley-wheel	623,678	Apr. 25	2718	623	87	578
Lebcher, Chester B., Plains, Mont. Continuous-contact trolley	627,927	June 27	3186	698	87	2295
Lebioda, Georg F., Paris, France. Apparatus for hardening wood	625,042	May 16	1988	444	87	1127
Leblanc, Alfredo, Stamford, Conn. Fastening device	628,203	July 4	459	110	88	91
Leblanc, Maurice. (See Hutin and Leblanc.)						
Lechi, Alfred, assignor to C. A. Stein, New York, N. Y. Photographic magazine-camera	622,959	Apr. 11	1399	322	87	286
Leckband, Theodor H. J., Adair, Iowa. Cut-off for gas, steam, air, or other fluids	617,812	Jan. 17	1829	408	86	396
Leckband, Theodor H. J., Adair, Iowa. Gas-generator	632,817	Sept. 12	1165	267	88	1954
Leckie, Archibald S. (See Hamilton and Leckie.)						
Lecomte, Auguste, and I. Loeser, Paris, France. Apparatus for regulating pressure of and distributing gas	627,618	June 27	2636	579	87	2184
Lecomte, Auguste, and I. Loeser, Paris, France. Automatic pressure-regulator for gas-distributing apparatus	627,619	June 27	2638	580	87	2185
Lecomte, Auguste, and I. Loeser, Paris, France. Incandescent gas-burner	638,344	Dec. 5	298	61	89	1923
Lecour, John E., Somerville, Mass. Collar-button	631,853	Aug. 29	3947	882	88	1561
Ledbetter, Elizabeth A. (See Ledbetter, William H., assignor.)						
Ledbetter, William H., Dallas, assignor to E. A. Ledbetter, Hale Center, Tex. Cotton chopper and cultivator	624,829	May 9	1624	369	87	1039
Leder, Paul H. A., Baltimore, Md. Packing	636,818	Nov. 14	1121	------	89	1175
Lederer, Charles. (See Johnstone and Lederer.)						
Lederer, Isaac (See Veon, Andrew E., assignor.)						
Lederer, Joseph, New York, N. Y. Incandescent mantle	622,960	Apr. 11	1402	322	87	286
Ledoux, John W., Swarthmore, Pa. Valve-regulating mechanism	635,863	Oct. 31	3545	815, 816	89	758
Ledoux, John W., Swarthmore, Pa. Filter	637,394	Nov. 21	2266	488	89	1413
Ledwinka, Josef. (See Newman and Ledwinka.)						
Lee, Alfred, New Whatcom, Wash. Gas-engine	634,529	Oct. 10	1043	249	89	225
Lee, C. G. (See McClintock, George W., assignor.)						
Lee, Charles A. (See Macintosh, William R., assignor.)						
Lee, Charles C., Paducah, Ky. Feathering paddle-wheel	627,065	June 13	1577	344, 345	87	1937
Lee, Edward T., assignor of one-half to J. H. Mansur, Royersford, Pa. Gas-meter	620,939	Mar. 14	746	164	86	1659
Lee, Francis M., Indianapolis, Ind. Tug-fastener	623,166	Apr. 18	1808	414	87	380
Lee, Frank, Adelaide, South Australia. Nailing-machine	618,695	Jan. 31	3489	779, 780	86	741
Lee, Frank A., assignor to Imperial Company, Cincinnati, Ohio. Metronome	637,624	Nov. 21	3055	631	89	1608
Lee, Fred E. (See Beckwith, Arthur K., assignor.)						
Lee, Frederick S. (See Jones, Henry C., assignor.)						
Lee, George S., Hawthorne, N. J., assignor to National Grate Bar Company, of New Jersey. Hollow grate-bar	626,657	June 6	792	181	87	1768
Lee, George W., Binghamton, N. Y. Separable button	621,831	Mar. 28	2404	537	86	2008
Lee, George W., Binghamton, N. Y. Method of and apparatus for manufacturing headed pins, &c	621,832	Mar. 28	2405	537	86	2008
Lee, Harry S., Tecumseh, Mich. Insulating-caster	619,896	Feb. 21	2037	462	86	1250
Lee, Herbert K., assignor to S. G. Thompson, Ottawa, Canada. Bulletin-board	630,062	Aug. 1	646	139	88	851
Lee, James P., Hartford, assignor to Winchester Repeating Arms Company, New Haven, Conn. Gun-magazine	627,824	June 27	2996	655	87	2255
Lee, James T. and L. P., New Britain, Conn. Rope-clamp	632,530	Sept. 5	592	135	88	1825
Lee, John H. (See Lee, Turner, assignor.)						
Lee, John H., Kansas City, assignor of one-half to O. M. Spencer, St. Joseph, Mo. Railway-car brake	618,885	Feb. 7	120	26	86	828
Lee, John S., Tucker, Utah. Stretching device for wire mattresses	635,936	Oct. 31	3683	850	89	785
Lee, Lorenzo P. (See Lee, James T. and L. P.)						
Lee, Louis E., San Francisco, Cal. Acetylene-gas-generating apparatus	619,046	Feb. 7	472	98	86	901
Lee, Moses W., Philadelphia, Pa. Punch-selector for card-punching machines	628,481	July 11	996	231, 232	88	212
Lee, Ole H., *et al.* (See Hanson, Walter H., assignor.)						
Lee, Patrick J., assignor of one-half to C. E. Day, Velasco, Tex. Car-coupling	618,886	Feb. 7	121	26	86	828
Lee, Thomas, Philadelphia, Pa. Elastic or resilient wheel for vehicles	634,893	Oct. 17	1687	398	89	368
Lee, Thomas, assignor, by mesne assignments, to Sterling Drying and Carbonizing Machine Company, Limited, Philadelphia, Pa. Apparatus for separating mixed fibers	624,056	May 2	192	42, 43	87	740
Lee, Thomas, assignor to himself, W. Cowan, and W. L. Parish, Brandon, Canada. Shaft-loop	616,945	Jan. 3	159	36	86	32
Lee, Thomas J., Cary, Ga. Cotton-chopping attachment for plows	635,491	Oct. 24	2844	649	89	610
Lee, Turner, Tampico, assignor to J. H. Lee, Chicago, Ill. Rein and hitching-strap holder	624,226	May 2	514	109	87	798
Lee, William F., *et al.* (See Sincock, David, assignor.)						
Lee, Yan P., Philadelphia, Pa. Folding go-cart	633,141	Sept. 19	1778	419	88	2083
Leech, Millard F., Boulder, Colo. Apparatus for treating ores	626,173	May 30	4141	943	87	1579
Leecock, George, North Andover, assignor of one-half to T. O'Brien, Lawrence, Mass. Self-lubricating pulley	626,837	June 13	1157	256	87	1855
Leedle, Charles C. (See Harwood, Leedle, and Reed.)						
Leedy, Ulysses G., Indianapolis, Ind. Drum-stand	624,662	May 9	1304	291	87	975
Leek, Ira G., San Francisco, Cal. Powder-container top	637,514	Nov. 21	2477	537	89	1455
Leeking, Harry D., assignor of one-half to M. M. Myer, Witmer, Pa. Power mechanism	636,409	Nov. 7	302	68, 69	89	982
Leen, John D., Braggville, Me. Ribbon-display cabinet	620,464	Feb. 28	3017	690	86	1450
Leeson, Anna, Quatsino, Canada. Corset-fastener	624,344	May 2	731	162	87	840
Leet, William C., Washington, Pa. Alarm-lock	624,345	May 2	732	163	87	840
Lefeber, John J., Johnsburg, Wis. Water-wheel	628,946	July 18	1874	434, 435	88	402
Lefebvre, Carlos, Valenciennes, France. Split belt-pulley	620,940	Mar. 14	747	164	86	1659
Lefebvre, Desire. (See Roussel and Lefebvre.)						
Leffler, Charles. (See White and Leffler.)						
Leffler, Charles, New York, N. Y. Feeding mechanism	637,938	Nov. 28	3637	763	89	1745
Lefler, A. W. (See Armstrong, Ezra A., assignor.)						
Lefort, Robert, assignor to Pollitz, Kaufman & Co., Philadelphia, Pa. Fabric-trimming machine	632,314	Sept. 5	197	45	88	1746
Leger, Edward, Chicago, Ill. Show-fixture	623,377	Apr. 18	2182	501	87	455
Legg, Benjamin A., assignor to J. A. Jeffrey, Columbus, Ohio. Power-transmitting belt	625,340	May 23	2538	577	87	1255
Legg, Benjamin A., assignor to J. H. Bricker, Pittsburg, and W. O. Winterhalter, Ingram, Pa. Gage-cock	618,696	Jan. 31	3491	780	86	742
Legg, Robert, London, England. Cigarette-cutting machine	627,462	June 20	2329	513	87	2106
Legg, William D., Clinton, Mo. Oil-filter	617,343	Jan. 10	931	215	86	201
Leggett, Joseph A. (See Hess, Wendell, Jr., assignor.)						
Legrand, Albert, Manchester, N. H. Cover for preserve-jars	627,755	June 27	2876	629	87	2233

Alphabetical list of patentees—Continued.

Name, residence, and invention.	No.	Date.	Monthly volume. Spec.	Monthly volume. Dr'g.	Official Gazette. Vol.	Official Gazette. Page.
Legrand, Charles. (See Waddell and Legrand.)						
Lehman, Henry C., Middlebury, Ind. Auchor for dredges	624,507	May 9	1030	233	87	921
Lehman, Isador, Cleveland, Ohio. Propelling and steering apparatus	628,010	July 4	96	20	88	20
Lehman, Isador, Cleveland, Ohio. Combined steering and propelling apparatus	635,384	Oct. 24	2617	605	89	565
Lehman, Otto A., Hoboken, N. J. Belt-slide	619,492	Feb. 14	1281	293	86	1080
Lehmann, August, Sr., assignor of one-half to F. Bose, Chicago, Ill. Cushion-tire for vehicles	627,511	June 27	2420	532	87	2141
Lehmann, Charles F. (See Ashley, Frank M., assignor.)						
Lehmann, Charles F., New York, N. Y. Machine for cutting helmet-brims	632,531	Sept. 5	593	136	88	1825
Lehmann, Charles J., assignor to Brunhoff Manufacturing Company, Hamilton, Ohio. Dice-shaker	632,270	Sept. 5	116	26	88	1730
Lehmann, Firm of F. (See Lehmann, Friedrich D. T., assignor.)						
Lehmann, Friedrich D. T., assignor to Firm of F. Lehmann, Chicago, Ill. Die for brick or tile machines	623,920	Apr. 25	3186	733	87	668
Lehmann, Henry C., assignor to himself, E. E. Peek, J. W. Rath, and L. E. Park, Waterloo, Iowa. Parlor-game cue	637,877	Nov. 28	3532	740	89	1724
Lehmann, Johannes. (See Wendt and Lehmann.)						
Lehnbeuter, Joseph, St. Louis, Mo. Spring-hinge	639,254	Dec. 19	1957	451	89	2283
Lehnbeuter, Joseph, assignor to Claes & Lehnbeuter Manufacturing Company, St. Louis, Mo. Show-case	638,253	Dec. 5	98	22	89	1885
Lehrman, James E., Allentown, assignor to C. H. A., D. A., and E. H. Muse, Cetronia, Pa. Dumb-waiter	618,040	Jan. 17	2245	500	86	476
Lehto, Fred, Scofield, Utah. Ramrod	622,771	Apr. 11	1057	245	87	220
Lehy, Geoffrey B., Boston, Mass. Apparatus for holding and slicing butter	622,898	Apr. 11	1293	298	87	264
Leiber, William C. (See Traitel and Leiber.)						
Leibert, Owen F., Bethlehem, Pa. Armor-plate	621,259	Mar. 14	1340	297, 298	86	1774
Leidenfrost, Hermann, Erfurt, Germany. Device for raising doors upon their hinges	621,685	Mar. 21	2126	473	86	1940
Leidenroth, Gustav. (See Schmidt and Leidenroth.)						
Leidich, Peter C., Tamaqua, Pa. Box or crate	630,903	Aug. 15	2195	499, 500	88	1189
Leiding, Charles, assignor of one-half to H. E. Smith, Duluth, Minn. Oar-lock	630,245	Aug. 1	954	209	88	911
Leiger, George F., assignor to L. Benedict, Chicago, Ill. Pneumatic sheet separating and feeding machine	624,227	May 2	515	109, 110	87	798
Leiger, George F., assignor to L. Benedict, Chicago, Ill. Pneumatic sheet-feeding machine	624,228	May 2	518	111, 112	87	798
Leiger, George F., assignor to L. Benedict, Chicago, Ill. Automatic sheet-feeding machine	624,229	May 2	529	113	87	800
Leigh, Arthur C., Dows, Iowa. Clothes-pounder	626,658	June 6	794	181	87	1768
Leighton, Edward J. and M. D., Boston, Mass., assignors to Scovill Manufacturing Company, Waterbury, Conn. Heel-slug for boots or shoes	620,154	Feb. 28	2489	566	86	1351
Leighton, Mary D. (See Leighton, Edward J. and M. D.)						
Leilich, Francis T., assignor of one-half to J. G. Simonton, San Francisco, Cal. Stop mechanism	638,182	Nov. 28	4116	869	89	1839
Lein, John P., New York, N. Y. Metallic bed	625,112	May 16	2129	483	87	1152
Lein, John P., New York, N. Y. Bed-bottom	631,799	Aug. 29	3858	860	88	1542
Lein, Johu P., New York, N. Y. Transport-bed	631,962	Aug. 29	4126	929	88	1595
Leinberger, John T. (See Wechsler, Leinberger, and Schmidt.)						
Leineweber, Herman, Chicago, Ill. Pneumatic-tire valve	621,105	Mar. 14	1073	233	86	1721
Leineweber, Herman, assignor to N. Heinsen and "Handy Cycle Pump" Company, Chicago, Ill. Bicycle-pump	624,663	May 9	1306	291	87	975
Leineweber, Herman, assignor to G. Leininger, Chicago, Ill. Bicycle-pump-hose attachment	624,664	May 9	1306	291	87	976
Leineweber, Herman, assignor of one-half to C. H. Trego, Chicago, and J. E. Roberts, Evanston, Ill. Pneumatic valve	636,343	Nov. 7	189	42	89	959
Leininger, George. (See Leineweber, Herman.)						
Leininger, Moses. (See Unger and Leininger.)						
Leisenring, Henry G., Wayne, Nebr. Folding table	623,794	Apr. 25	2949	673, 674	87	623
Leist, William. (See Jantz, Leist, and Jantz.)						
Leitch, Meredith, Boston, Mass., assignor to Warren Webster Company, of New Jersey. Hot-water heating system	635,787	Oct. 31	3400	784	89	731
Leitner, Henry, London, England. Apparatus for forming plates for secondary batteries	637,625	Nov. 21	3056	631, 632	89	1608
Leitner, Henry, assignor to Electrical Undertakings, Limited, London, England. Controlling of electric-motor vehicles	632,874	Sept. 12	1282	294, 295	88	1974
Lejeune, Armand, Verviers, Belgium. Dividing apparatus for carding-engines	616,946	Jan. 3	160	36	86	32
Lejeune, Georges, Nantes, France. Carbonic bung	639,412	Dec. 19	2271	524	89	2345
Leland, Edwin A., Great Barrington, Mass. Filter	634,060	Oct. 3	129	33	89	30
Leland, Edwin A., assignor to Leland Filter Company, Great Barrington, Mass. Water-supply for buildings	629,376	July 25	2649	615	88	571
Leland, Edwin A., assignor to Leland Filter Company, Great Barrington, Mass. Water-purifying apparatus	629,377	July 25	2650	616	88	571
Leland & Faulconer Manufacturing Company. (See Cheney, Herbert W., assignor.)						
Leland & Faulconer Manufacturing Company. (See Leland and Ferris, assignors.)						
Leland Filter Company. (See Leland, Edwin A., assignor.)						
Leland, Henry M., and F. E. Ferris, assignors to Leland & Faulconer Manufacturing Company, Detroit, Mich. Machine for generating teeth of bevel-gears	624,508	May 9	1034	233, 234, 235	87	921
Lelu, Louis E. C., Paris, France. Bidet	628,162	July 4	384	90, 91	88	78
Lemaire, Henri F. M., Paris, France. Chapelet, chain-pump, or similar apparatus	629,107	July 18	2169	503, 504	88	461
Lemay, Stanislas P., assignor of one-half to M. R. Maynard, Manchester, N. H. Bench-vise	636,151	Oct. 31	4119	942	89	873
Lemieux, Louis, and L. Haas, New York, N. Y.; said Lemieux assignor to said Haas. Pivot attachment for pedal members	634,624	Oct. 10	1211	287	89	258
Lemkuhl, Louis. (See Lemkuhl, William C. and L.)						
Lemkuhl, William C. and L., Baltimore, Md. Indicator for mail-boxes	638,584	Dec. 5	747	160	89	2009
Lemley, Maurice, Centre View, Ohio. Wrench	619,193	Feb. 7	755	164	86	959
Lemley, Morgan B., Foote, Iowa. Burial-crane	634,008	Oct. 3	50	15	89	41
Lemmermann, Henry, Hasbrouch Heights, N. J. Bathing-cap or other rubber article and making same	637,136	Nov. 14	1763	378	89	1299
Lemoine, George, Prattville, Ala. Cotton-cleaner	631,800	Aug. 29	3859	860	88	1542
Lemons, John A., Buford, Ga. Combined driving and medical bit	617,583	Jan. 10	1378	312	86	287
Lemström, Karl S., Helsingfors, Finland. Electrical influence-machine	634,467	Oct. 10	939	224	89	205
Lemyre, Joseph E., Manchester, N. H. Preserve-jar or cover therefor	638,022	Nov. 28	3804	800	89	1777
Lenderoth, William, New York, N. Y. Sanitary attachment for telephone-transmitters	636,676	Nov. 7	807	179	89	1086

Alphabetical list of patentees—Continued.

Name, residence, and invention.	No.	Date.	Monthly volume. Spec.	Monthly volume. Dr'g.	Official Gazette. Vol.	Official Gazette. Page.
Leng, Charles, Pittsburg, Pa. Glass-horse	624,346	May 2	733	163	87	840
Lenhult, John E., Leetes Island, Conn. Rail-bond	634,559	Oct. 10	1109	263	89	239
Lenhult, John E., Leetes Island, Conn. Hammer	636,386	Nov. 7	271	61	89	975
Lennart, Pher J., Stamford, Conn. Door check and closer	633,015	Sept. 12	1508	351	88	2019
Lennep, Victor A. (See King, Jesse H., assignor.)						
Lennon, Andrew, Montreal, Canada. Insole for slippers	628,339	July 4	739	171	88	142
Lennox, John F., *et al.* (See Reynolds, Hiram R., assignor.)						
Lennox, Talbot, Ames, Iowa. Portable forge	639,817	Dec. 26	3023	696	89	2515
Lenox, Edwin S., deceased; S. E. Lenox, administratrix, assignor to Washburn & Moen Manufacturing Company, Worcester, Mass. Wire bale-tie	619,584	Feb. 14	1423	327	86	1105
Lenox, Sarah E., administratrix. (See Lenox, Edwin S.)						
Lentschat, Georg O., assignor to Kölner Wassermesser Werk Gesellschaft mit Beschränkter Haftung, Cologne, Germany. Electric gas-lighter	635,140	Oct. 17	2166	505	89	462
Lentschat, Georg O., assignor to Kölner Wassermesser Werk Gesellschaft mit Beschränkter Haftung, Cologne, Germany. Gas lighting or extinguishing apparatus	638,345	Dec. 5	299	61	89	1924
Lentz, David H., Joliet, Ill., assignor to McKenna Steel Working Company, Milwaukee, Wis. Saw-table	621,106	Mar. 14	1074	233, 234	86	1721
Lentz, David H., Joliet, Ill., assignor to McKenna Steel Working Company, Milwaukee, Wis. Furnace	625,402	May 23	2637	599	87	1274
Lentz, David H., Joliet, Ill., assignor to McKenna Steel Working Company, Milwaukee, Wis. Charging-machine	639,745	Dec. 26	2883	664	89	2487
Lentz, David H., Joliet, Ill., and H. C. Shaw, Pittsburg, Pa., assignors to McKenna Steel Working Company, Milwaukee, Wis. Machine for charging furnaces	621,107	Mar. 14	1076	234	86	1722
Lentz, David H., Joliet, Ill., and H. C. Shaw, Pittsburg, Pa., assignors to McKenna Steel Working Company, Milwaukee, Wis. Machine for rolling railway-rails	625,403	May 23	2639	599, 600	87	1275
Lentz, Gustave, Dusseldorf, Germany. Furnace-charging apparatus	627,825	June 27	2997	655	87	2255
Lentz, Hugo, Brünn, Austria-Hungary. Engine-governor	626,546	June 6	598	137, 138	87	1730
Leonard, Arthur G., A. Graffam, and B. R. Wolcott, De Kalb, Ill. Pegging-machine	629,512	July 25	2922	680	88	624
Leonard, Caswell L., Newtown, Ind. Ironing-board	617,752	Jan. 17	1692	380	86	369
Leonard, Charles H., and L. H. Solosth, Grand Rapids, Mich.; said Solosth assignor to said Leonard. Knockdown refrigerator	618,474	Jan. 31	3085	683	86	663
Leonard, Elof R., New York, N. Y. Wall-furring	619,968	Feb. 21	2156	489	86	1272
Leonard, Franklin, Paterson, N. J., assignor to Keystone Acetylene Gas Company, Limited, Erie, Pa. Acetylene-gas generator	621,757	Mar. 21	2264	510, 511	86	1966
Leonard, George B., Chicago, Ill. Repairing device	621,108	Mar. 14	1079	234	86	1722
Leonard, George H., and R. L. Reynolds, assignors of one-third to G. H. Bush, Fall River, Mass. Ring-spinning frame	627,698	June 27	2774	608	87	2210
Leonard, Harmann. (See Wieser, Joseph, assignor.)						
Leonard, Harry W., New York, N. Y. Resistance-box	635,441	Oct. 24	2761	632	89	593
Leonard, Harsey K., Montrose, Pa. Fastening device	627,808	June 27	2968	649	87	2250
Leonard, Laurence P., Waseca, Minn. Dental matrix-clamp	625,888	May 30	3534	803	87	1466
Leonard, Louis N., Butte, Mont. Wagon-cover	632,578	Sept. 5	676	157	88	1840
Leonard, Oliver H. (See Wilson, James N., assignor.)						
Lepore, Felix M., Denver, Colo. Fire-escape	637,878	Nov. 28	3533	740	89	1724
Lepoutre, Auguste, Roubaix, France. Spinning-machine	638,254	Dec. 5	99	23	89	1885
Lepper, Adam. (See Merrill and Lepper.)						
Lerch, George. (See Haak, George E., assignor.)						
Lerol, Knud K., Jr., Newburg, Minn. Anchor and tension device for check-row corn-planters	619,585	Feb. 14	1423	327	86	1106
Lerol, Knud K., Jr., Newburg, Minn. Automatic regulator for wind-wheels	631,725	Aug. 22	3715	834	88	1505
Leroux, Zotique, Montreal, Canada. Earth-boring auger	618,422	Jan. 31	3008	666	86	649
Leroy, Roxie. (See Farrell, John E., assignor.)						
Léry, Joseph B., de, New York, N. Y. Incandescent gas-burner	621,927	Mar. 28	2589	583	86	2042
Léry, Joseph B., de, New York, N. Y., assignor, by mesne assignments, to De Léry Light Company, of New Jersey. Incandescent burner	620,338	Feb. 28	2819	643	86	1413
Leschinger, Joseph, *et al.* (See Kall, Arnold G., assignor.)						
Lesh, Conrad, Zion, Pa. Seat-clamp	637,395	Nov. 21	2268	488	89	1414
Lesh, John H., trustee. (See Elwell, Fred S., assignor.)						
Leshure, Willard P., Springfield, Mass. Lawn-mower	617,584	Jan. 10	1379	313	86	287
Leslie, James W., Melrose, Mass. Curtain-ring	617,585	Jan. 10	1381	313	86	288
Leslie, James W., Melrose, Mass. Curtain-pole and ring therefor	631,726	Aug. 22	3716	834	88	1505
Leslie, James W., Melrose, Mass. Curtain-pole and socket	632,420	Sept. 5	376	86	88	1780
Leslie, John H., Chicago, Ill. Can	634,243	Oct. 3	509	130	89	103
Lesser, Daniel E., assignor of one-third to P. G. Wheeler, Warren, Pa. Trolley-pole retriever	631,854	Aug. 29	3948	882	88	1561
Lessing, Frank, Jr., Scranton, Pa. Fruit-jar	624,509	May 9	1044	235	87	924
Lester, Allen H., assignor to Torrey Roller Bushing Works, Bath, Me. Combined cigar-tip cutter and advertising device	629,378	July 25	2651	616	88	571
Lester, George H. (See Lester, John H. and G. H.)						
Lester, Haviland, assignor to Crandal, Stone & Company, Binghamton, N. Y. Carriage-curtain fastener	621,109	Mar. 14	1080	235	86	1722
Lester, James F. (See Dennis, Frederick W., assignor.)						
Lester, John H. and G. H., New York, N. Y. Trolley-wheel	635,262	Oct. 17	2361	551	89	499
Lester, Victoria P. (See Kean, Helen A., assignor.)						
Leto, Vito, Newark, N. J. Money assorter and counter	632,054	Aug. 29	4303	967	88	1630
Letombe, Leon A. C. (See Mollet-Fontaine and Letombe.)						
Letson, James M. K., Vancouver, Canada. Die for forming can ends	629,575	July 25	3020	705	88	643
Letson, James M. K., and F. W. Burpee, Vancouver, Canada. Can-capping machine	629,574	July 25	3013	703, 704, 705	88	642
Leu, Leon, assignor of one-half to J. Hafner, St. Louis, Mo. Oven-door	637,805	Nov. 28	3374	707	89	1691
Leuchter, Arthur A., Everett, Mass. Cyclometer	628,340	July 4	740	171, 172	88	142
Leugering, Johann, Dortmund, Germany. Machine for fixing hoops on oval casks or the like	619,258	Feb. 7	866	190	86	982
Levedahl, Axel, assignor to Aurora Automatic Machinery Company, Aurora, Ill. Adjustable crank-hanger	620,241	Feb. 28	2642	602	86	1378
Levedahl, Axel, Chicago, assignor to Aurora Automatic Machinery Company, Aurora, Ill. Attaching device for vehicle-axles	631,018	Aug. 15	2413	548	88	1231
Levedahl, Axel, assignor to Aurora Automatic Machinery Company, Aurora, Ill. Roller-bearing	631,019	Aug. 15	2415	548	88	1231
Leventry, Charles. (See George, William J., assignor.)						
Levett, Walter W., Callao, Mo. Wire-reel	639,818	Dec. 26	3024	696	89	2515
Levi, Mordicai, Charleston, W. Va. Filter	623,324	Apr. 18	2089	479	87	437
Levin, Rudolph L., assignor to J. C. Johnson and A. J. Scott, Menominee, Mich. Wrench	634,175	Oct. 3	354	91	89	73

Alphabetical list of patentees—Continued.

Name, residence, and invention.	No.	Date.	Monthly volume. Spec.	Monthly volume. Dr'g.	Official Gazette. Vol.	Official Gazette. Page.
Levin, Rudolph L., and C. Bongfeldt, Menominee, Mich. Wrench	631,801	Aug. 29	3860	860	88	1543
Levinson, Louis, New York, N. Y. Silk-skein exhibitor	631,083	Aug. 15	2540	575	88	1256
Levinstein, Ivan, and R. Herz, assignors to Levinstein, Limited, Manchester, England. Naphthylene-diamin-sulfonic acid and making same	619,194	Feb. 7	757	------	86	960
Levinstein, Ivan, and R. Herz, assignors to Levinstein, Limited, Manchester, England. Blue-black disazo color and making same	629,748	July 25	3334	------	88	704
Levinstein, Ivan, and R. Herz, assignors to Levinstein, Limited, Manchester, England. Blue-black tetrazo dye and making same	634,009	Oct. 3	52	------	89	14
Levinstein, Ivan, and C. Mensching, assignors to Levinstein, Limited, Manchester, England. Brown tetrazo dye and making same	622,961	Apr. 11	1404	------	87	286
Levinstein, Ivan, and H. Pfeiffer, assignors to Levinstein, Limited, Manchester, England. Substantive red tetrazo dye and making same	625,174	May 16	2226	------	87	1170
Levinstein, Limited. (See Levinstein and Herz, assignors.)						
Levinstein, Limited. (See Levinstein and Mensching, assignors.)						
Levinstein, Limited. (See Levinstein and Pfeiffer, assignors.)						
Levit, Max, Shenandoah, Pa. Display-case	618,887	Feb. 7	124	27	86	828
Levitt, Robert W., and C. W. Hunt, Somerset, Ohio. Revolving show-case	617,252	Jan. 3	733	170	86	143
Levy, Alexander, New York, N. Y. Stain-eraser	636,267	Nov. 7	73	17	89	937
Levy, David. (See Rudomin, David, assignor.)						
Levy, Emanuel M., Buffalo, N. Y. Caricature-card	624,347	May 2	734	163	87	841
Levy, Harry, and M. Himoff, New York, N. Y. Tobacco-cutting machine	635,263	Oct. 17	2362	551, 552	89	499
Levy, Jacob, New York, N. Y. Folding bed	617,586	Jan. 10	1382	313, 314	86	288
Levy, Louis E., assignor to M. Levy, Philadelphia, Pa. Etching metal plates	627,430	June 20	2271	501	87	2096
Levy, Max. (See Levy, Louis E., assignor.)						
Levy, Simon H. (See Harding, Charles K., assignor.)						
Lewis, Albert T., *et al.* (See Wood, Andrew J., assignor.)						
Lewis, Bennett R., and J. Schwartz, Rhinelander, Wis. Pump-governor	628,101	July 4	276	65, 66	88	55
Lewis, David W. (See Axtell, Lucius, assignor.)						
Lewis, Elijah F., *et al.* (See Allen, George W., assignor.)						
Lewis, Elliott L., Troy, N. Y. Animal-trap	624,665	May 9	1307	292	87	976
Lewis, Frank M., London, assignor of three-fourths to Mutual Electric Trust, Limited, Brighton, England. Supply of current to and governing arc-lamps	621,352	Mar. 21	1521	338	86	1822
Lewis, Frederick K., *et al.* (See Wittich, Frederick A., assignor.)						
Lewis, Gaston C., Bayard, Fla. Axle-spindle	621,473	Mar. 21	1734	386	86	1862
Lewis, George, Denbigh, England. Car-brake	622,697	Apr. 11	939	217	87	198
Lewis, George D., Norwich, Conn. Ironing-board	625,175	May 16	2228	505	87	1170
Lewis, George G., Sycamore, Ill. Insulating apparatus	632,654	Sept. 5	814	189	88	1869
Lewis, George G., Sycamore, Ill. Insulating apparatus	632,655	Sept. 5	816	189	88	1870
Lewis, George G., assignor to himself and W. A. Buehl, Sycamore, Ill. Painting apparatus	632,653	Sept. 5	811	188, 189	88	1868
Lewis, George G., assignor to himself and W. A. Buehl, Sycamore, Ill. Insulating apparatus	632,656	Sept. 5	818	190	88	1870
Lewis, George H., Galveston, Tex. Packing for piston-rods	623,482	Apr. 18	2365	544	87	493
Lewis, George H., assignor of three-fourths to J. A. Labatt, J. Goggan, L. Blum, and H. J. Labatt, Galveston, Tex. Bicycle-tire	631,727	Aug. 22	3718	834	88	1505
Lewis, George W., Chicago, Ill., assignor to J. Thompson & Sons Manufacturing Company, Beloit, Wis. Explosive-engine	620,941	Mar. 14	747	164, 165	86	1660
Lewis, George W., Chicago, Ill., assignor to J. Thompson & Sons Manufacturing Company, Beloit, Wis. Gas or vapor engine	621,110	Mar. 14	1081	235, 236	86	1723
Lewis, George W., Chicago, Ill., assignor to J. Thompson & Sons Manufacturing Company, Beloit, Wis. Governing device for gas-engines	621,111	Mar. 14	1065	236	86	1723
Lewis, Herbert W., Peru, Ind. Gate-operating device	622,241	Apr. 4	73	17	87	17
Lewis, Israel. (See Dela Mar, Joseph, assignor.)						
Lewis, Israel, New York, N. Y. Pneumatic cigar-wrapper forming and rolling board and table	635,937	Oct. 31	3684	851	89	785
Lewis, James R. (See Pangle, Thomas R., assignor.)						
Lewis, James S., Shenandoah, assignor of one-half to R. W. Grubb, Hillsborough, Va. Gate	619,766	Feb. 21	1783	409	86	1201
Lewis, John F., Scranton, Pa. Lubricator	629,083	July 18	2123	494, 495	88	452
Lewis, John G., St. Louis, Mo. Overalls	621,353	Mar. 21	1523	338	86	1822
Lewis, Kirby R., *et al.* (See Peavy and Dickson, assignors.)						
Lewis, Mortimer G., New York, N. Y. Letter-press	637,879	Nov. 28	3534	740	89	1724
Lewis, Norman B., and C. Spates, Rossway, Canada. Car-coupling	637,966	Nov. 28	3684	774	89	1754
Lewis, Oveston H., Richards, Mo. Hedge-puller or stump-extractor	619,767	Feb. 21	1788	409, 410	86	1202
Lewis & Pointons' Panification, Limited. (See Pointon, Charles E. and J. E., assignors.)						
Lewis, Richard, Llanelly, England. Fastener for bicycles	624,951	May 16	1843	414	87	1098
Lewis, Robert, Jr., New York, N. Y. Bicycle-saddle	619,768	Feb. 21	1789	410	86	1202
Lewis, Robert A. (See Stephens, Isaac W., assignor.)						
Lewis, Theodore G., assignor to Buffalo Dental Manufacturing Company, Buffalo, N. Y. Dental articulator	619,586	Feb. 14	1425	328	86	1106
Lewis, Theodore G., assignor to Buffalo Dental Manufacturing Company, Buffalo, N. Y. Dental plugger	625,043	May 16	1990	445	87	1127
Lewis, Theodore G., assignor to Buffalo Dental Manufacturing Company, Buffalo, N. Y. Blowpipe	633,859	Sept. 26	3104	720	88	2358
Lewis, Theodore G., and F. M. Bailey, assignors to Buffalo Dental Manufacturing Company, Buffalo, N. Y. Carbureter	633,287	Sept. 19	2051	481, 482	88	2137
Lewis, Thomas C., London, England. Pianoforte-action	639,255	Dec. 19	1959	451	89	2283
Lewis, Warwick J. (See Holliwell and Lewis.)						
Lewis, Wilfred. (See Seller and Lewis.)						
Lewis, William B., *et al.* (See Stuart, Ithamer W., assignor.)						
Lewis, William D. (See Ball, Cortland, assignor.)						
Lewis, William F. (See Zingsem, Frederick W., assignor.)						
Lewis, William H., Huntington, assignor of one-half to E. & H. T. Anthony & Company, New York, N. Y. Photographic-plate holder	628,889	July 11	1758	411	88	363
Lewis, William H., Huntington, assignor of one-half to E. & H. T. Anthony & Company, New York, N. Y. Paper-cutter	628,908	July 11	1808	421	88	372
Lewis, William H., Huntington, N. Y., assignor of one-half to E. & H. T. Anthony & Company, of New York. Photographic tripod	629,379	July 25	2654	616	88	572
Lewis, William H., Huntington, assignor to E. & H. T. Anthony & Company, New York, N. Y. Roll-holder tension device	631,402	Aug. 22	3110	704, 705	88	1386
Lewis, William H., Huntington, assignor of one-half to E. & H. T. Anthony & Company, New York, N. Y. Photographer's tray	632,220	Aug. 29	4619	1041	88	1691

Alphabetical list of patentees—Continued.

Name, residence, and invention.	No.	Date.	Monthly volume.		Official Gazette.	
			Spec.	Drgs.	Vol.	Page.
Lewis, William H., and H. L. Littell, Indianapolis, Ind. Vehicle-spring	625,176	May 16	2228	506	87	1170
Lewis, William O. (See Shearer and Lewis.)						
Lewis, William S. (See Mariner, James M., assignor.)						
Ley, Michael S. (See McAnulty and Van den Berghe, assignors.)						
Leyendecker, Paul, Charlottenburg, Germany. Machine for treating skins or hides	618,988	Feb. 7	378	79	86	883
Leyner, John G., Denver, Colo. Rock-drilling engine	626,761	June 13	989	224	87	1824
Leyner, John G., Denver, Colo. Drill-holding device for rock-drilling engines	626,762	June 13	995	224	87	1825
Liais, Lucien, Paris, France. Apparatus for stamping metals	620,942	Mar. 14	754	165	86	1660
Liais, Lucien, Paris, France. Unpuncturable armor for pneumatic tires	636,536	Nov. 7	542	119	89	1030
Libaire, Henry A. L., New York, N. Y. Cuff-button	626,433	June 6	404	95	87	1692
Libbey, Henry N., Boston, Mass. Gate-valve	621,928	Mar. 28	2591	584	86	2042
Libbey, Hosea W., Boston, Mass. Bicycle-frame	634,089	Oct. 3	185	46	89	41
Libby, Albert E., Limerick, Me. Puzzle	635,329	Oct. 24	2492	579	89	541
Libby, Charles F., *et al.* (See Porter, Stephen, assignor.)						
Libby, Harlow & Co. (See Nicholls, Walter H., assignor.)						
Libby, Harry W., and C. R. Swett, Canton, Me. Wrench	640,005	Dec. 26	3354	768	89	2580
Libby, Rose A., assignor of one-fourth to F. M. Moore, Marquette, Mich. Combined dinner-pail and lantern	634,530	Oct. 10	1049	249	89	227
Libby, Sam H., Schenectady, N. Y., assignor to General Electric Company, of New York. Pneumatically-operated contact-shoe for electric railways	637,806	Nov. 28	3375	707	89	1691
Libert, William A., Kaukauna, Wis. Paper-reel	623,795	Apr. 25	2950	674	87	623
Liberty Bell Company. (See Rockwell, Edward D., assignor.)						
Liberty, Saul R., Nashua, N. H. Lath-carrying device for paper-drying machines	629,696	July 25	3237	753	88	685
Libonati, Joseph, East Orange, N. J. Soap and making same	638,848	Dec. 12	1229		89	2125
Licht, Adam, Newark, N. J. Eyeglasses	631,170	Aug. 15	2687	607	88	1284
Lichti, Christian, Moundridge, Kans. Harrow	618,109	Jan. 24	2393	533	86	519
Lidberg, Tiodolf, assignor of one-half to H. H. Davenport, Chicago, Ill. Telephone-transmitter	632,355	Sept. 5	264	62	88	1759
Liddell, Edgar E. (See Percival and Liddell.)						
Lieber, Albert. (See Barus, Carl, assignor.)						
Lieber, Albert. (See Engelsmann, August, assignor.)						
Lieber, Albert, Indianapolis, Ind. Bottle-stopper	622,376	Apr. 4	305	71	87	58
Lieber, James H., Boonville, Mo. Cock	636,819	Nov. 14	1123	240	89	1175
Lieber, Louis O., Los Angeles, Cal. Dynamo-electric machine	627,937	June 27	3206	702	87	2299
Liebmann, Rudolph, East Orange, and J. F. Toussaint, New York, N. Y. Badge	630,547	Aug. 8	1581	353	88	1044
Liebscher, Ernst, Georgendorf, Austria-Hungary. Spraying device for paints	629,513	July 25	2926	681	88	625
Liese, Augustus, Lancaster, Mass. Beer-faucet	636,210	Oct. 31	4234	974	89	896
Light, George M., Pomeroy, Wash. Land-scraper	633,860	Sept. 26	3106	721	88	2358
Lighthall, Almerin H., assignor to H. A. Maurer, New York, N. Y. Marine engine	624,348	May 2	735	164	87	841
Lighthall, Almerin H., assignor to H. A. Maurer, New York, N. Y. Bucket or vane for water-wheels	624,349	May 2	739	165	87	842
Lighthall, Almerin H., assignor to H. A. Maurer, New York, N. Y. Water-wheel	624,350	May 2	741	165 166	87	842
Lighthall, Almerin H., assignor to H. A. Maurer, New York, N. Y. Marine engine	624,351	May 2	742	166 167	87	842
Lighthall, Almerin H., assignor to H. A. Maurer, New York, N. Y. Hydraulic motor	624,352	May 2	744	167	87	842
Lighthall, Almerin H., assignor to H. A. Maurer, New York, N. Y. Marine propulsion	624,353	May 2	746	168	87	843
Lighthall, Almerin H., assignor to H. A. Maurer, New York, N. Y. Viaduct	633,861	Sept. 26	3107	721	88	2359
Lighthall, Almerin H., assignor to H. A. and H. Maurer, New York, N. Y. Thrust-bearing	633,862	Sept. 26	3109	722	88	2359
Lightning-Change Advertising Company. (See Ayer, Silas H., assignor.)						
Likewise, Charles H., New York, N. Y. Step-ladder	621,260	Mar. 14	1344	298 299	86	1775
Liley, Francis E., and C. E. Hennies, Atlanta, Ga. Parcel-carrier for bicycles	618,944	Feb. 7	271	57	86	863
Lilienthal, Louis W. G., Gross Lichterfelde, Germany. Fireproof ceiling	619,769	Feb. 21	1791	410	86	1202
Lilley, John R., Coatesville, Pa. Music-leaf turner	636,437	Nov. 7	351	79	89	992
Lillibridge, M. A., *et al.* (See Brown, Edmond H., assignor.)						
Lillie, William F., Holmesville, Nebr. Corn-husker	633,600	Sept. 26	2659	631	88	2268
Lillpop, Jesse M., assignor of one-half to J. Welp, Kyana, Ind. Vegetable-cutter	633,863	Sept. 26	3111	722	88	2359
Lilly, Harry. (See Heimlich, John, assignor.)						
Limbach, George, Mount Vernon, N. Y. Machine for pasting and dating labels	622,814	Apr. 11	1131	262	87	234
Liming, John, Philadelphia, Pa. Hydraulic air-compressor	624,830	May 9	1630	369	87	1040
Liming, William S. (See Russell and Liming.)						
Limpert, Michael, Pittsburg, Pa. Grinding in slide and triple valves	623,921	Apr. 25	3188	733	87	668
Linam, John W., and T. J. Whitworth, Laneport, Tex. Corn or cotton planter	636,677	Nov. 7	808	179	89	1086
Linch, Frank S., assignor of one-fourth to R. P. Mayo, Paris, Tex. Stovepipe-thimble	632,818	Sept. 12	1169	268	88	1954
Linch, Thomas O. (See Hurst and Linch.)						
Lincoln, Walter G. (See Brown and Lincoln.)						
Lind, Frederick, Jr., Paterson, N. J. Telephone attachment	619,493	Feb. 14	1282	293	86	1080
Lind, Peter H., *et al.* (See Ebken, John G., assignor.)						
Lindberg, Charles. (See Newell and Lindberg.)						
Lindeberg, Emelia, Bluffton, Minn. Fire-escape	637,626	Nov. 21	3057	632	89	1609
Lindelöf, Leonard, Helsingfors, Finland. Apparatus for paying out money	619,321	Feb. 14	990	223 224	86	1023
Lindemann, Lisbeth, Munich, Germany. Non-transparent ornamented tile for decorative purposes	634,851	Oct. 10	1617	378	89	337
Lindemann, Wilhelm, Rathenow, Germany. Twyer for smiths' hearths or forges	623,483	Apr. 18	2365	544	87	493
Lindemeyr, Philip, assignor to Monarch Manufacturing Company, Baltimore, Md. Bottle	621,112	Mar. 14	1088	236	86	1723
Lindenberger, Charles and H., and W. B. Teal, assignors of one-third to W. H. Cobb, Hannibal, Mo. Storage battery	630,720	Aug. 8	1873	423	88	1100
Lindenberger, Charles and H., and W. B. Teal, assignors to themselves and W. H. Cobb, Hannibal, Mo. Storage battery	640,006	Dec. 26	3355	768	89	2581
Lindenberger, Harry. (See Lindenberger and Teal.)						
Lindersmith, Stiles, Faribault, Minn. Steam-boiler	632,839	Sept. 12	1200	274	88	1961
Lindersmith, Stiles, St. Paul, Minn. Portable steam-boiler	638,415	Dec. 5	443	91	89	1950
Lindgreen, Theodor. (See Hansen and Lindgreen.)						
Lindgren, August, Moline, Ill., assignor to Moline Plow Company, of Illinois. Seeding-machine	617,443	Jan. 10	1124	256 257	86	237
Lindgren, August, Moline, Ill., assignor to Moline Plow Company, of Illinois. Plowshare	623,726	Apr. 25	2790	638	87	591
Lindgren, August, Moline, Ill., assignor to Moline Plow Company, of Illinois. Disk-bearing	628,204	July 4	460	110	88	92
Lindgren, Erick W. (See Göransson and Lindgren.)						
Lindgren, John, Porter's Mills, Wis. Match-safe	624,354	May 2	749	168	87	843
Lindley, Zachary M., Carthage, Mo. Sash-balance	616,947	Jan. 3	161	36	86	32
Lindquist, Peter N. (See Steele and Olson, assignors.)						
Lindsay, Alexander M., *et al.* (See Barber, Arthur J., assignor.)						
Lindsay, George M., and G. Saunders, Andover, Mass. Furnace attachment	623,408	Apr. 18	2237	512	87	467

Alphabetical list of patentees—Continued.

Name, residence, and invention.	No.	Date.	Monthly volume. Spec.	Monthly volume. Dr'g.	Official Gazette. Vol.	Official Gazette. Page.
Lindsay, Robert F., assignor of one-half to Cily & Brother, Greenville, S. C. Automatic valve cut-off	629,794	Aug. 1	58	15	88	732
Lindsay, Thomas J., assignor of one-half to D. H. Lohman, Lafayette, Ind. Bicycle-frame	619,322	Feb. 14	991	224	86	1024
Lindsay, William B., and W. E. Tonner, Steubenville, Ohio. Filter and cleaner	622,698	Apr. 11	940	217	87	198
Lindsay, William G. (See Keenan, Joseph, assignor.)						
Lindsay, Wilton E., Glendale, S. C. Fastening device	623,167	Apr. 18	1810	414	87	381
Lindsey, Archibald M. (See Dishner and Lindsey.)						
Lindsey, Holland F., Tupelo, Miss. Hanging compartment hat-box	633,864	Sept. 26	3112	722, 723	88	2360
Lindsey, John, Sandersville, Miss. Vehicle	617,172	Jan. 3	599	140	86	117
Lindsey, Susan, *et al.* (See Kern, Isaac R., assignor.)						
Lindsley, Augustus N., New York, N. Y. Road-skate	622,815	Apr. 11	1132	262	87	234
Lindstrom, Charles A., Chicago, Ill. Multipolar electric motor	638,872	Dec. 12	1276	290	89	2134
Lindstrom, Edward, assignor of two-thirds to G. R. McDowell and A. Wulff, Kenosha, Wis. Bicycle-support	626,239	June 6	42	10	87	1623
Lindstrom, John T., Mount Vernon, Ohio. Valve mechanism for engines	623,251	Apr. 18	1952	446, 447	87	409
Lindstrom, Nils O. (See See, Lindstrom, and Mason.)						
Lindstrom, Nils O., assignor to A. B. See and W. L. Tyler, New York, N. Y. Safety-stop for elevators	637,396	Nov. 21	2269	489	89	1414
Linebaugh, David, Aurora, Mo. Wrench	637,268	Nov. 21	2014	432	89	1363
Linen, George G. (See Ericson, Charles J., assignor.)						
Lines, Martha K. (See Kimberly, George D., assignor.)						
Ling, Edward, Pittsburg, Pa. Nut-lock	632,501	Sept. 5	528	121	88	1812
Ling, William, *et al.* (See Henkel and Kunz, assignors.)						
Lingner, Karl A., Dresden, Germany. Sprinkling-flask, &c., for toilet purposes	629,038	July 18	2034	474	88	434
Lingner & Kraft. (See Kirschen, Paul, assignor.)						
Linindoll, Charles C., assignor of one-half to H. D. Northup, Fort Edward, N. Y. Combined bung and faucet	635,693	Oct. 24	3198	738	89	679
Link-Belt Engineering Company. (See Dodge, James M., assignor.)						
Link Belt Machinery Company. (See Peck, Staunton B., assignor.)						
Link Belt Machinery Company. (See Schaefer, John V., assignor.)						
Link, Edward G., Rochester, N. Y. Forceps	617,587	Jan. 10	1383	314	86	288
Link, William D., Talladega, Ala. Lumber-truck	623,551	Apr. 25	2499	574	87	537
Link, William E. (See Cameron and Link.)						
Linke, Emil F., Hartford, Conn., assignor to Thorne Type Setting Machine Company, Jersey City, N. J. Type-justifying apparatus	626,914	June 13	1318	290	87	1888
Linke, Theodore, New York, N. Y. Filter	622,052	Mar. 28	2816	635	86	2087
Linkenbach, William, Shelbyville, Ind. Chopping-block	631,894	Aug. 29	4007	897	88	1573
Linkenhelt, Lawrence. (See Maxey, James W., assignor.)						
Linkiewicz, Leopold, New York, N. Y. Butter molder and cutter	633,865	Sept. 26	3114	723	88	2360
Linkletter, Robert, Jersey City, N. J. Support for hammocks or swings	626,763	June 13	998	224	87	1826
Linley, Joseph A. (See Hamilton, James W. C., assignor.)						
Linn, Allen D., assignor to Grand Rapids School Furniture Company, Grand Rapids, Mich. Proportional slide-rule gage	618,888	Feb. 7	125	27	86	829
Linn, Clarence, *et al.* (See Cooper, James G., assignor.)						
Linn, Frank B., Lenexa, Kans. Stock-pen	619,688	Feb. 14	1624	371	86	1144
Linn, Guy C. (See McGarvey, Edward, assignor.)						
Linn, Robert G., Sawdust Valley, assignor of one-half to L. A. and H. L. Truitt, Nashville, Tenn. Pitman	629,795	Aug. 1	60	15	88	733
Linotype Company. (See Pashley, Charles W., assignor.)						
Linsner, William S. (See McKenzie and Linsner.)						
Linstrum, Otto W., Perdue, Ill. Thill-coupling	626,622	June 6	712	165	87	1753
Linvill, William M., assignor of one-half to H. H. Willson, Kokomo, Ind. Grain-car door	617,444	Jan. 10	1126	257	86	238
Lipinski, Anthony P., New York, N. Y. Device for opening or closing doors	636,820	Nov. 14	1124	241	89	1175
Lipman, Morris H., New York, N. Y. Shoe-lace fastening	626,174	May 30	4142	943	87	1579
Lippens, Camille, Ghent, Belgium. Cycle	626,706	June 13	899	204	87	1807
Lippincott, Charles H., and W. W. Gilton, Philadelphia, Pa. Window-ventilator	628,602	July 11	1217	285	88	255
Lippincott, Fisher H., Philadelphia, Pa. Lead-pencil	627,512	June 27	2421	532	87	2141
Lippincott, Fisher H., Philadelphia, Pa. Back-pedaling brake	629,514	July 25	2927	681	88	625
Lippincott, Fisher H., and W. Morlok, Philadelphia, Pa., assignors to American Soda Fountain Company, Trenton, N. J. Pneumatic liquid-dispensing jar	636,537	Nov. 7	543	119	89	1030
Lippincott Glass Company. (See Lippincott, Jason E., assignor.)						
Lippincott, James M., and C. S. Hall, Oakland, Ill. Shelving	617,965	Jan. 17	2104	471, 472	86	450
Lippincott, Jason E., Alexandria, Ind., assignor to Lippincott Glass Company, Alexandria, Ind., and Cincinnati, Ohio. Machine for etching, stamping, or marking glassware	622,816	Apr. 11	1133	262, 263	87	234
Lippincott, Jason E., Alexandria, Ind., assignor to Lippincott Glass Company, Alexandria, Ind., and Cincinnati, Ohio. Device for cooling molds	628,543	July 11	1114	260, 261	88	235
Lippincott, Randolph P., assignor to S. B. Rowley, Philadelphia, Pa. Glass-press	618,178	Jan. 24	2546	563	86	546
Lippitt, Charles N., Beloit, Wis. Carbureter	620,595	Mar. 7	79	15	86	1518
Lippman, Joseph, *et al.* (See Knapp, Willis, assignor.)						
Lipschutz, Arthur, and M. Toltz, St. Paul, Minn. Train-lighting apparatus for compressed acetylene gas	633,866	Sept. 26	3117	723	88	2361
Liquid Air Power and Automobile Company. (See Code and Knudsen, assignors.)						
Lisenby, William T., and A. R. Baldwin, Springfield, Mo. Automatic gate for elevator-wells	624,952	May 16	1844	414	87	1098
Lisk, George W., Clifton Springs, N. Y. Spraying device	630,613	Aug. 8	1696	381	88	1067
Lisk Manufacturing Company. (See Brown, Tristram D., assignor.)						
Lisle, Harry F. (See Smith and Lisle.)						
Lisle, Myron C., Grand Rapids, Mich. Projectile	622,773	Apr. 11	1060	245	87	221
Lisle, Myron C., assignor of one-half to F. A. Simonds, Grand Rapids, Mich. Projectile	622,772	Apr. 11	1058	245	87	221
Lispenard, George. (See Curtis and Lispenard.)						
Lispenard, George, assignor, by mesne assignments, to Nordlinger-Charlton Fireworks Company, New York, N. Y. Choking-machine for fire-cracker bodies, &c	634,176	Oct. 3	355	91	89	73
Lispenard, George, assignor, by mesne assignments, to Nordlinger-Charlton Fireworks Company, New York, N. Y. Choke for fire-crackers	634,177	Oct. 3	358	92	89	74
Liss, Charles, New York, N. Y. Overflow-alarm	620,713	Mar. 7	325	66	86	1565
Lissau, Samuel M., Philadelphia, Pa. Apparatus for washing placer soil	631,020	Aug. 15	2417	549	88	1232
Lister, Edwin, Newark, N. J. Bone-black kiln	624,510	May 9	1044	235	87	924
Lister, Edwin, Newark, N. J. Mill for grinding bone carbon, &c	626,028	May 30	3840	871	87	1524
Lister, Thomas E., Los Angeles, Cal. Shoe-blacking device	636,211	Oct. 31	4235	974	89	896
Litchfield, Walter D., Somerville, Mass. Torpedo-controlling device	619,023	Feb. 7	431	90, 91	86	894

Alphabetical list of patentees—Continued.

Name, residence, and invention.	No.	Date.	Monthly volume. Spec.	Monthly volume. Dr'g.	Official Gazette. Vol.	Official Gazette. Page.
Lithosite Manufacturing Company. (See McCool, Daniel, assignor.)						
Litle, Thomas J., Jr., Philadelphia, Pa. Atmospheric burner	637,269	Nov. 21	2014	432	89	1363
Littauer, Lucius N. (See Murphy, William B., assignor.)						
Littell, Hubert L. (See Lewis and Littell.)						
Littell, J. Reed. (See Howe, Florence D. and J. E., assignors.)						
Littell, Marshall H., St. Louis, Mo. Blower	627,858	June 27	3057	668	87	2267
Littell, Milan D. (See Littell, Samuel M., assignor.)						
Littell, Samuel M., assignor of one-third to M. D. Littell, Pleasanton, Kans. Seed-planter	627,431	June 20	2275	502	87	2097
Litten, Eugene, assignor of one-half to D. H. Thomas, Santa Ana, Cal. Shade-cutter	628,909	July 11	1810	422	88	372
Littig, Henry A., Davenport, Iowa. Necktie-holder	625,889	May 30	3535	803	87	1466
Little, Anderson, Seddon, Ala. Tether	633,016	Sept. 12	1514	352	88	2020
Little, Charles W. G. (See Little, William G. and C. W. G.)						
Little, Edwin. (See Sayre and Little.)						
Little, Joseph H., New York, N. Y. Waste-pipe plug	629,196	July 18	2322	538	88	488
Little, Robert, Erie, Pa. Lubricating device for piston or valve rods, &c	636,410	Nov. 7	304	69	89	982
Little, Robert C., Pittsburg, Pa. Type-writer	626,915	June 13	1321	291	87	1888
Little, William G., Bexley, and C. W. G. Little, Heckington, England. Steam-engine indicator	622,504	Apr. 4	564	132, 133	87	106
Littlefield, Augustine F., Lynn, Mass. Channeling-machine	623,325	Apr. 18	2091	480	87	438
Littlefield, Charles A., Lowell, Mass., assignor to Draper Company, Portland, Me., and Hopedale, Mass. Loom	618,362	Jan. 24	2860	635	86	606
Littlefield, Charles A., Lowell, Mass., assignor to Draper Company, Portland, Me., and Hopedale, Mass. Warp stop-motion for looms	620,465	Feb. 28	3018	690	86	1450
Littlefield, Charles A., Lowell, Mass., assignor to Draper Company, Portland, Me., and Hopedale, Mass. Pick-finding mechanism for looms	622,650	Apr. 4	848	195	87	161
Littlefield, Frank A., Nashua, N. H. Valve apparatus	624,511	May 9	1016	235	87	925
Littlefield, Frank A., Nashua, N. H. Valve apparatus	624,512	May 9	1048	236	87	925
Littlefield, George E., Holliston, assignor to F. W. Mann & Co., Milford, Mass. Feeding device for poultry	631,895	Aug. 29	4008	897	88	1573
Litwiller, Thomas, Tremont, Ill. Engine	623,168	Apr. 18	1810	414, 415	87	381
Live Poultry Transportation Company. (See Mudd and Hedrick, assignors.)						
Livengood, Winfield S. (See Stokely and Livengood.)						
Livermore, John W., assignor of one-half to C. J. Berry, Selma, Cal. Thawing apparatus	622,053	Mar. 28	2817	635	86	2088
Livermore, Ray F., Corry, Pa. Device for measuring bolts of cloth	635,492	Oct. 24	2845	650	89	610
Livermore, William R., U. S. Army. Bell-ringing mechanism	622,242	Apr. 4	74	18	87	17
Liverpool, Joshua H. (See Jacobson, Edward B., assignor.)						
Livingston, Henry J., Baltimore, Md. Composition for making carbonated hydraulic lime, cement, or mortar	620,155	Feb. 28	2490	------	86	1351
Livingston, Louis H., assignor of one-half to H. Zuber, Hennesey, Okla. Ter. Adjustable pivot-pin	626,707	June 13	899	204	87	1807
Livoni, John A. O., Marion, Kans. Weather or door strip	619,587	Feb. 14	1426	328	86	1106
Ljung, John, Nelson, Minn. Nailing-machine	633,764	Sept. 26	2943	683, 684	88	2325
Ljungström, Birger, Stockholm, Sweden. Path for driving-chains for velocipedes, &c	631,219	Aug. 15	2763	625, 626	88	1300
Lloyd, Charles A., assignor to C. F. Green, Baltimore, Md. Funnel	638,728	Dec. 12	1039	232	89	2088
Lloyd, David W., Pittsburg, Pa. Window-screen	627,513	June 27	2422	532	87	2141
Lloyd, David W., Pittsburg, Pa. Sash-balance	630,461	Aug. 8	1425	319	88	1014
Lloyd, Harlan P. (See Sagendorph, Longley L., assignor.)						
Lloyd, Harry W., Williamsport, Pa. Adjusting mechanism for bicycles	620,156	Feb. 28	2491	566	86	1351
Lloyd, Herbert S., Philadelphia, Pa., assignor, by mesne assignments, to Electric Power Development Company. Battery-electrode	624,513	May 9	1049	236	87	925
Lloyd, John E., Cleveland, Ohio. Electrically-illuminated sign	640,140	Dec. 26	3594	827	89	2631
Lloyd, John U., Cincinnati, Ohio. Vial or medicine-bottle	628,269	July 4	595	140	88	115
Lloyd, Marshall B., Minneapolis, Minn., assignor to A. L. Baron, Tiffin, Ohio. Oil-can cover	627,197	June 20	1805	396	87	2003
Lloyd, Marshall B., assignor to White Manufacturing Company, Minneapolis, Minn. Wire hammock	631,747	Aug. 22	3748	841	88	1511
Lloyd, William H., Brookline, assignor to Smith & Anthony Company, Boston, Mass. Urinal	628,205	July 4	462	110	88	92
Lloyd, William H., assignor of one-fourth to O. C. Townsend and W. P. Wight, Colorado Springs, Colo. Stamp-mill	634,894	Oct. 17	1689	399	89	368
Lloyd, William H., Boston, Mass., assignor to J. L. Mott Iron Works, New York, N. Y. Basin-support	639,066	Dec. 12	1604	368	89	2198
Loader, James H., London, England. Means for propelling vessels	624,953	May 16	1846	415	87	1099
Loan, William F., Boston, Mass. Reading-stand	639,857	Dec. 26	3087	710	89	2526
Lob, Guido E., Chicago, Ill., assignor to S. S. White Dental Manufacturing Company, Philadelphia, Pa. Speed-regulator	628,947	July 18	1875	435, 436	88	402
Lobee, Bart, Buffalo, N. Y. Rotary pump	629,796	Aug. 1	62	16	88	733
Lock Stub Check Company. (See Whitney, Linwood G., assignor.)						
Lockard, George H., assignor of one-half to L. K. Lockard, Baltimore, Md. Seam-pressing board	627,648	June 27	2688	589	87	2194
Lockard, Lewis K. (See Lockard, George H., assignor.)						
Locke, Harvey W., assignor to W. F. Carlton, Rochester, N. Y. Reversible back for cameras	624,057	May 2	196	43	87	740
Locke, James E., Cross Hill, S. C. Bridge	627,859	June 27	3058	669	87	2267
Locke, James J., Chickalah, assignor of one-half to T. E. Wilson, Dardanelle, Ark. Check-valve	629,449	July 25	2783	646	88	598
Locke Steel Belt Company. (See Skogse, Gustav, assignor.)						
Locke, Sylvanus D., Hoosick Falls, N. Y. Harvester-binder	631,647	Aug. 22	3558	802, 803	88	1476
Locke, Thomas R., assignor of one-third to S. M. French, Monte Vista, Colo. Bicycle attachment	625,574	May 23	2937	667	87	1332
Lockerby, William E. (See Simms, Elwyn E., assignor.)						
Lockett, Abner P., Knoxville, Tenn. Lamp-chimney holder	618,513	Jan. 31	3169	700	86	679
Lockhart, Fred T. (See Newlin, Joseph S., assignor.)						
Locklin, George C., and B. M. Fox, Chicago, Ill. Sash-fastener	621,578	Mar. 21	1921	429	86	1898
Lockrem, Augustus S., and O. Estwik, Pierpont, S. D. Tongue-cap and line-guard	619,969	Feb. 21	2157	489	86	1272
Lockwood, Charles S., and T. J. Tellefsen, Newark, N. J. Guide-frame for rolls in roller-bearings	633,553	Sept. 19	2533	594	88	2230
Lockwood, Edward M., assignor to Oswego Machine Works, Oswego, N. Y. Paper-cutting machine	623,089	Apr. 11	1622	373, 374	87	330
Lockwood, Edward M., Phœnixville, Pa., assignor to Oswego Machine Works, Oswego, N. Y. Clamp-operating device for paper-cutting machines	640,162	Dec. 26	3630	835	89	2638

Alphabetical list of patentees—Continued.

Name, residence, and invention.	No.	Date.	Monthly volume. Spec.	Monthly volume. Dr'g.	Official Gazette. Vol.	Official Gazette. Page.
Lockwood, Rhodes. (See Mitchell, Oliver R., assignor.)						
Lockwood, Rhodes. (See Waterman, Arthur A., assignor.)						
Lockwood, Rhodes. (See Waterman and Stevens, assignors.)						
Lockwood, Rhodes G., Boston, Mass. Grip	631,648	Aug. 22	3562	803	88	1477
Lockwood, Stephen A. (See Sheldon and Lockwood.)						
Lockwood, William N., Concord, Mass. Tobacco-pouch	619,588	Feb. 14	1427	328	86	1106
Lodahl, Nels L., Peterson, Minn. Currycomb	632,730	Sept. 12	999	232	88	1919
Lodge, Littleton W. T., Hamilton, assignor of one-half to J. Schollenberger, Butler county, Ohio. Ticket-case	634,244	Oct. 3	511	130	89	103
Loeh, Frank S., New Kensington, Pa. Preparation of aluminium for electroplating	630,246	Aug. 1	955	------	88	911
Loeb, Rudolf, Camden, N. J. Hem-folding machine	639,413	Dec. 19	2272	524 525	89	2346
Loeben, Gustave A., assignor of one-half to A. L. A. Toboldt, Philadelphia, Pa. Pressure device for burners	639,197	Dec. 12	1853	427	89	2246
Loeber, Frederick. (See Summerlott, Charles A., assignor.)						
Loebinger, Wilhelm, Berlin, Germany. Device for inflating pneumatic tires	618,697	Jan. 31	3493	780	86	742
Loeffel, William C., St. Louis, Mo. Folding packing	618,698	Jan. 31	3494	780	86	742
Loeffel, William C., St. Louis, Mo. Folding packing	629,450	July 25	2784	647	88	598
Loeser, Isidore. (See Lecomte and Loeser.)						
Loesner, Hans, Leipsic-Lindenau, Germany. Paint	634,468	Oct. 10	942	------	89	206
Loetz, Frederick L., Sturgis, Mich. Rip-saw gage	619,770	Feb. 21	1792	411	86	1202
Loetzer, Christian E., Towanda, Pa. Hydrant	631,545	Aug. 22	3381	766	88	1441
Loew, Charles H., Cleveland, Ohio. Filter apparatus	634,947	Oct. 17	1771	420	89	384
Loew, Oscar, Washington, D. C. Immunizing preparations from bacillus pyocyaneus	633,867	Sept. 26	3119	------	88	2361
Loffi, George, Canton, Ohio. Shears	619,195	Feb. 7	758	164	86	960
Lofstedt, Otis B., Rippey, Iowa. Tension device for twine-binders	626,175	May 30	4143	943	87	1579
Loftin, J. B., *et al.* (See Mason, William R., assignor.)						
Loftus, E. M. (See Kaffenberger, Charles T., assignor.)						
Logan, Daniel F. (See Jackson, John, assignor.)						
Logan, Ferdinand, assignor of two-thirds to T. L. Hodge, Philadelphia, and P. W. Janeway, Media, Pa. Carbureter	626,176	May 30	4144	943	87	1579
Logan, Lavalette L., Scranton, Pa. Car-brake	624,831	May 9	1631	369	87	1040
Logan, Lavalette L., Scranton, Pa. Car-brake	628,890	July 11	1759	412	88	363
Logan, Lavalette L., Scranton, Pa. Car-brake	634,357	Oct. 3	742	177	89	148
Logan, Lavalette L., Scranton, Pa. Car-brake	638,639	Dec. 5	851	185	89	2030
Logan, Rebecca E. (See Johnson, Reason P., assignor.)						
Logan, Sylvester, Emlenton, Pa. Reversing mechanism	635,073	Oct. 17	2022	478	89	436
Logan, William H., Louisville, Ky. Fire-escape	636,538	Nov. 7	545	120	89	1031
Logan, William H., Louisville, Ky. Fire-escape	636,539	Nov. 7	545	120	89	1031
Logan, William H., assignor to Kirker-Bender Fire Escape Company, Louisville, Ky. Fire-escape	623,796	Apr. 25	2951	674	87	623
Logee, Edgar L., Providence, R. I Safety device for brooches	629,380	July 25	2655	617	88	572
Logue, Michael. (See O'Brien, Patrick D., assignor.)						
Lohda, Robert G., assignor to Northwestern Manufacturing Company, Fort Atkinson, Wis. Fifth-wheel	626,789	June 13	1052	236	87	1837
Lohman, Dietrich H. (See Lindsay, Thomas J., assignor.)						
Lohr, John W., Lamanda, Cal. Chopping or mincing knife	631,021	Aug. 15	2420	549	88	1232
Lohse, Arthur H., New York, N. Y. Fastener for buttons	633,868	Sept. 26	3120	724	88	2361
Lohse, Arthur H., New York, N. Y. Garment-fastener	636,152	Oct. 31	4120	943	89	873
Lohse, Daniel H., *et al.* (See Farmer, John R., assignor.)						
Loiseau, Arthur. (See Martel, Léon, assignor.)						
Lombard, Alvin O., Waterville, Me. Chip-breaking machine for wood-pulp	629,262	July 18	2431	563	88	507
Lombard, Charles E., East Wilton, Me. Fire-extinguishing apparatus	618,989	Feb. 7	379	79	86	884
Lombard, Charles E., East Wilton, Me. Automatic fire-alarm	623,024	Apr. 11	1515	351	87	309
Lombard, Frank, and C. Miller, Hartford, Conn. Combined lock and wrench	625,341	May 23	2542	578	87	1255
Lombas, Joseph A., Lockport, assignor of one-third to E. C. Caffery, Cypre Mort, La. Water-elevator	640,141	Dec. 26	3595	827	89	2631
Lomprey, Jerry F., Petoskey, Mich. Boring-machine	621,113	Mar. 14	1090	237	86	1724
Lone Star Acetylene Gas Company. (See Henderson and Stapp, assignors.)						
Lonergan, Edmond J. (See Herwick and Lonergan.)						
Lones, Jabez, *et al.* (See Lones, Joseph, assignor.)						
Lones, Joseph, Smethwick, assignor to W. Walker, Jr., F. R. Wilkins, J. Lones, E. Holden, J. H. Burt, and J. Whyman, Birmingham, England. Utilizing spent battery solutions	620,466	Feb. 28	3020	------	86	1451
Long Arm System Company. (See Cowles, William B., assignor.)						
Long, Calvin C., assignor of one-half to W. B. Wilde, Washington, Iowa. Wagon-brake	633,017	Sept. 12	1515	352	88	2020
Long, Charles A., Pomeroy, Wash. Hoe	620,849	Mar. 7	583	126	86	1617
Long, Daniel S., Maysville, Mo. Threshing-machine	617,402	Jan. 10	1047	238	86	223
Long, David L., Columbus, Ohio. Sash-locking device	630,462	Aug. 8	1426	319	88	1014
Long, David N., La Salle, N. Y. Acetylene-gas generator	619,970	Feb. 21	2158	490	86	1273
Long, E. G., *et al.* (See Long and Walling, assignors.)						
Long, Eugene M., Washington, D. C., and M. F. Capron, Shelby, Ohio. Fortune-telling device	634,579	Oct. 10	1139	270	89	244
Long, Francis M., and E. Schattner, Norwich, England. Prepayment electric meter	618,699	Jan. 31	3495	781	86	742
Long, Frank T. (See Davies, Thomas W., assignor.)						
Long, George A., Boston, Mass. Grate	634,694	Oct. 10	1332	315	89	282
Long, I. N. (See Crawford, Hugh S., assignor.)						
Long, James C., and J. E. Walling, assignors of one-half to S. H. and E. G. Long, Lebanon, Ind. Crude-oil burner	624,058	May 2	198	43	87	740
Long, John E., Chillicothe, Ohio. Table	636,268	Nov. 7	74	18	89	937
Long, John Q., Colfax, La. Adding-machine	630,904	Aug. 15	2196	500	88	1189
Long, Louis J. (See Metzger, William W., assignor.)						
Long, S. H., *et al.* (See Long and Walling, assignors.)						
Long, Sidney L., Magnolia, Minn. Trap	621,833	Mar. 28	2407	537	86	2068
Long, Sidney L., Magnolia, Minn. Combined paper-clip and pencil-holder	636,269	Nov. 7	76	18	89	938
Long, William, Jr., New Franklin, Mo. Nut-lock	627,938	June 27	3207	702	87	2300
Long, William S. (See Dexter, Charles, assignor.)						
Longard, Clarence C., Halifax, Canada. Centripetal fire-grate	629,797	Aug. 1	63	16	88	733
Longden, Charles E., assignor to Seamless Rubber Company, New Haven, Conn. Stopper for water-bags	626,069	May 30	3907	887	87	1535
Longden, Charles E., assignor to Seamless Rubber Company, New Haven, Conn. Machine for forming rubber articles	632,221	Aug. 29	4620	1041	88	1691
Longden, Charles E., assignor to Seamless Rubber Company, New Haveu, Conn. Bladder	634,302	Oct. 3	626	152	89	125
Longfellow, Samuel B., *et al.* (See Smith, William F., assignor.)						
Longfield, Richard A., and J. Kline, Milwaukee, Wis. Culinary utensil	628,717	July 11	1456	338	88	303
Longwill, David B., Providence, R. I. Window-screen	638,517	Dec. 5	627	130	89	1986

Alphabetical list of patentees—Continued.

Name, residence, and invention.	No.	Date.	Monthly volume. Spec.	Monthly volume. Dr'g.	Official Gazette. Vol.	Official Gazette. Page.
Longwood, William D., Deadwood, S. D. Cupel-cooler for assay-furnaces	633,462	Sept. 19	2381	560	88	2201
Löns, Bernhard, Wesel, Germany. Bicycle-brake	620,157	Feb. 28	2492	566 567	86	1351
Loog, Hermann, and R. R. Gubbins, London, England. Wheel-rim for pneumatic tires	636,153	Oct. 31	4121	943	89	873
Look, John C., Tudor, Cal. Air-coupling hanger	628,586	July 11	1197	280	88	251
Look, Luther, Los Angeles, Cal. Jar closer or opener	635,049	Oct. 17	1967	466	89	425
Loomis, Harry T., assignor of one-half to G. Scheifle, Oneida, N. Y. Stand or support	620,943	Mar. 14	756	165 166	86	1661
Loomis, Harry T., assignor to Frank & Lambert, New York, N. Y. Trimming for burial-caskets	631,116	Aug. 15	2599	586 587	88	1266
Loomis, Harry T., assignor to M. Frank and J. J. Lambert, New York, N. Y. Machine for making trimmings	629,451	July 25	2785	647 648	88	598
Loomis, Jackson H., Cleveland, Ohio. Sprinkling device	626,495	June 6	515	119	87	1713
Loomis, William H., St. Peter, Minn. Sliding-door lock	623,552	Apr. 25	2499	574	87	537
Loos, Franz, Carlsbad, Austria-Hungary. Dust-cart	632,130	Aug. 29	4458	1003	88	1661
Loos, John. (See Cott and Loos.)						
Loos, John H., Orange, N. J. Vacuum arc-lamp	636,270	Nov. 7	78	18	89	938
Loper, Jonathan M., Pittsburg, Pa. Thread-protector	628,408	July 4	853	200	88	163
Loper, Johnathan M., Pittsburg, Pa. Metallic thread-protector	631,577	Aug. 22	3450	779	88	1454
Lorain Steel Company. (See Boughton, Wilfred E., assignor.)						
Lorain Steel Company. (See Brown, William M., assignor.)						
Lorain Steel Company. (See Clarkson, Samuel E., assignor.)						
Lorain Steel Company. (See Ford, Bruce, assignor.)						
Lorain Steel Company. (See George, Arthur L., assignor.)						
Lorain Steel Company. (See Goughnour, Henry S., assignor.)						
Lorain Steel Company. (See Hendrie, Strathearn, assignor.)						
Lorain Steel Company. (See Kress, Carl F., Jr., assignor.)						
Lorain Steel Company. (See McFeaters, George H., assignor.)						
Lorain Steel Company. (See Nicewaner, Edwin G., assignor.)						
Lorain Steel Company. (See Ott, Edward, assignor.)						
Lorbeer, Olney W., Pomona, Cal. Machine for ironing edges of and forming collars and cuffs	623,484	Apr. 18	2367	544 545	87	493
Lorenz, Andreas, Philadelphia, Pa., assignor to H. Torchiani, New York, N. Y. Apparatus for agitating yeast	639,067	Dec. 12	1605	369	89	2198
Lorenz, William A., Hartford, Conn. Bottle-stopper	639,068	Dec. 12	1606	369	89	2199
Lorenz, William A., Hartford, Conn., assignor to Lanston Monotype Machine Company, Washington, D. C. Galley mechanism for type-making machines	625,044	May 16	1992	445 446 447 448 449 450 451	87	1127
Lorenz, William A., assignor of three-fourths to W. H. Honiss, Hartford, Conn., and B. Arkell, Canajoharie, N. Y. Jar-sealing apparatus	639,680	Dec. 19	2761	637	89	2444
Lorenz, William A., assignor of three-fourths to W. H. Honiss, Hartford, Conn., and B. Arkell, Canajoharie, N. Y. Jar-sealing apparatus	639,681	Dec. 19	2762	637	89	2444
Lorenz, William A., assignor of three-fourths to W. H. Honiss, Hartford, Conn., and B. Arkell, Canajoharie, N. Y. Jar-sealing apparatus	639,682	Dec. 19	2764	637	89	2444
Lorimer, Joseph H., Philadelphia, Pa. Lifting apparatus	620,158	Feb. 28	2493	567	86	1351
Loring, Arthur H., Minneapolis, and H. L. Clark, St. Paul, Minn. Electric transformer	639,590	Dec. 19	2581	593	89	2409
Lorton, Henry, Cowden, Ill. Gate	631,311	Aug. 22	2950	667	88	1354
Losee, Ezra A., Lake City, Iowa. Automatic stock-waterer	619,081	Feb. 7	537	113	86	915
Losee, Ezra A., Lake City, Iowa. Piano-stool	621,354	Mar. 21	1524	339	86	1823
Losee, Ezra A., Lake City, Iowa. Feed-trough	621,355	Mar. 21	1525	339	86	1823
Lotherington, Thomas, assignor of one-fourth to W. H. Ziegler, Dallas, Tex. Folding bed for vehicles	628,948	July 18	1878	436	88	402
Lothrop, Alvin M. (See Moore, William N., assignor.)						
Lotspeich, Joseph M. (See Huff and Lotspeich.)						
Lott, William E., Mineola, Tex. Latch	629,166	July 18	2272	526	88	479
Lottermoser, Alfred, Dresden, assignor to Chemische Fabrik von Heyden, Gesellschaft mit Beschränkter Haftung, Radebeul, Germany. Product of mercury soluble in water and manufacturing same	628,270	July 4	596		88	115
Lottman, Albert C., Houston, Tex. Tightening device for spring bed-bottoms	634,531	Oct. 10	1050	250	89	227
Lotto, Frederic S., New York, N. Y. Theatrical appliance	633,018	Sept. 12	1516	352 353	88	2020
Lotz, Albert, Berlin, Germany. Oscillating meter	638,055	Nov. 28	3854	810	89	1787
Lotz, August, assignor to F. A. Robbins, San Francisco, Cal. Can-body-flanging device	632,840	Sept. 12	1201	274 275	88	1961
Louden, Samuel E., Riverside, Conn. Device for holding lawn-mower cutters for sharpening	636,540	Nov. 7	546	120	89	1031
Louden, William, Fairfield, Iowa. Track-suspending device	617,491	Jan. 10	1198	273	86	253
Louden, William, Fairfield, Iowa. Hay-carrier	620,467	Feb. 28	3021	691	86	1451
Louden, William, Fairfield, Iowa. Door-hanger	626,177	May 30	4145	944	87	1580
Louden, William, Fairfield, Iowa. Hay-carrier	631,896	Aug. 29	4009	897	88	1573
Louden, William, Fairfield, Iowa. Hay-carrier stop	634,948	Oct. 17	1773	421	89	385
Louden, William, Fairfield, Iowa. Hay-carrier	634,949	Oct. 17	1775	421	89	385
Louder, Samuel A. (See Wilhelm and Louder.)						
Loudermilch, Henry C., Enders, Pa. Overhead trolley	630,780	Aug. 8	1971	446	88	1120
Loughborough, William K., assignor of one-half to R. Wirt, Battle Creek, Mich. Table or desk attachment for chairs or seats	633,323	Sept. 19	2139	501	88	2155
Loughran, Michael J., Pittsburg, Pa. Apparatus for rolling metal	625,575	May 23	2938	667	87	1333
Louis, Robert J., Chicago, Ill. System of calls and signals	635,493	Oct. 24	2846	650	89	610
Loutzky, Boris, Berlin, Germany. Means for transmitting motion	637,515	Nov. 21	2478	537	89	1455
Lovatt, James W. (See Fehr and Lovatt.)						
Lovatt, James W., *et al.* (See Riley, Peter J., assignor.)						
Lovatt, Samuel. (See Burden and Lovatt.)						
Love Electric Traction Company. (See Law, Myron D., assignor.)						
Love, James R. (See Pelton and Love.)						
Love, Joseph W., Baltimore, Md. Mail-pouch	633,869	Sept. 26	3121	724	88	2361
Love, William, Bryn Mawr, Pa. Screw-anchor	617,492	Jan. 10	1200	273	86	253
Love, William T., Spokane, Wash. Acetylene-gas generator	640,142	Dec. 26	3596	827	89	2631
Lovejoy, Charles H. (See Lovejoy, Fredrick C., assignor.)						
Lovejoy Company. (See Ferguson, James H., assignor.)						
Lovejoy, Fredrick C., assignor to C. H. Lovejoy, Shushan, N. Y. Molder's chaplet	636,438	Nov. 7	352	79	89	992
Lovejoy, George W., assignor of one-fourth to J. P. Cuddeback, Tehachapi, Cal. Wheeled scraper	629,452	July 25	2788	648	88	599

Alphabetical list of patentees—Continued.

Name, residence, and invention.	No.	Date.	Monthly volume. Spec.	Monthly volume. Dr'g.	Official Gazette. Vol.	Official Gazette. Page.
Lovejoy, Herbert M., Malden, assignor to J. E. Whitney, Boston, Mass. Ruffler and gatherer for sewing-machines	638,970	Dec. 12	1445	330	89	2169
Lovekin, Luther D., Philadelphia, Pa. Shaft-coupling	636,411	Nov. 7	305	69	89	982
Loveland, Herbert E., assignor to Hub Collar Button Company, Boston, Mass. Collar-button	630,084	Aug. 1	680	146	88	857
Loveless, Fred H., assignor, by mesne assignments, of two-thirds to E. E. Bailey, Lafayette, Ind. Brush	637,270	Nov. 21	2016	432	89	1363
Lovell, Albert K., New York, N. Y. Guard for lacing-hooks	630,984	Aug. 15	2352	536	88	1219
Lovell, George, Opitonui, New Zealand. Slash or bill hook	639,069	Dec. 12	1607	369	89	2199
Lovering, John H., Malden, Mass. Device for operating adding-machines	629,381	July 25	2656	617	88	572
Lovett, John I., Midlothian, Tex. Disk-plow attachment	630,367	Aug. 8	1205	265	88	977
Lovlace, James W., Burnsville, Miss. Attachment for plows	626,790	June 13	1053	236 237	87	1837
Low, Abbot A. (See Johnson and Low.)						
Low, Abbot A., New York, N. Y. Stove	626,838	June 13	1158	257	87	1856
Low, Abbot A., assignor to Alden Type Machine Company, New York, N. Y. Type-distributing apparatus	618,475	Jan. 31	3087	683	86	664
Low & Co., F. Eliot. (See Fulhaber, Jerôme, assignor.)						
Löw, Wilhelm, assignor to Firm of R. J [illegible], Heidelberg, Germany. Microtome	618,514	Jan. 31	3170	700	86	679
Lowe, Edward L., Astoria, Oreg. Vapo[illegible]ngine	624,355	May 2	750	168	87	843
Lowe, Enoch L., assignor to S. Lowe, San Francisco, Cal. Pole or shaft coupling bolt for vehicles	617,107	Jan. 3	475	114	86	93
Lowe, Frank W., *et al.* (See Morse, Myron E., assignor.)						
Lowe, George, St. Annes-on-the-Sea, England. Iron golf-club head	622,699	Apr. 11	941	217	87	198
Lowe, Joseph A., San José, Cal. Check-hook	633,765	Sept. 26	2949	684	88	2326
Lowe, Robert E., New York, N. Y. Garment	622,010	Mar. 28	2746	620	86	2074
Lowe, Samuel, deceased; C. L. Sturtevant, Washington, D. C., ancillary administrator, assignor to J. W. Lamb and J. Hind, Nottingham, England, executors of said Lowe. Knitting-machine	621,723	Mar. 21	2187	491 492 493	86	1952
Lowe, Susan. (See Lowe, Enoch L., assignor.)						
Lowe, William, Boston, Mass. Attachment for pedals of bicycles, &c	622,243	Apr. 4	76	18	87	18
Lowell, Clesson A., and E. R. Brown, Somerville, Mass. Air-compressing apparatus	618,959	Feb. 7	295	64	86	868
Lowell, James P., Waynesborough, Pa. Fire-refuge	639,591	Dec. 19	2584	593	89	2409
Lower, Charles A., Marion, Ind. Trolley device for kites	620,596	Mar. 7	80	16	86	1518
Lower, Charles C., Hicksville, Ohio. Sand-guard	627,649	June 27	2690	590	87	2195
Lowery, Frank J., and F. E. Billings, Fort Fairfield, Me. Window-fastener	620,468	Feb. 28	3023	691	86	1452
Lowery, Frank J., and F. E. Billings, Fort Fairfield, Me. Sash-balance	628,341	July 4	746	172	88	143
Lowrey, Bill G., Blue Mountain, Miss. Teeter-board and stand therefor	624,832	May 9	1633	370	87	1041
Lowrey, William W., New York, N. Y. Combined bottle-stopper and sprinkler	636,821	Nov. 14	1125	241	89	1176
Lowrie, Harvey C., Denver, Colo. Excavating apparatus	629,576	July 25	3021	705 706 707	88	643
Lowry, George A., Chicago, Ill. Hog-hoisting machine	627,265	June 20	1935	426	87	2029
Lowry, George A., Chicago, Ill., assignor to Planters Compress Company, of West Virginia. Press for cotton, wool, hair, &c	630,368	Aug. 8	1206	265	88	975
Lowry, George A., Chicago, Ill., assignor to Planters Compress Company, of West Virginia. Apparatus for compressing cotton, &c	630,369	Aug. 8	1207	265 266 267	88	977
Lowry, George A., Chicago, Ill., assignor to Planters Compress Company, of West Virginia. Press for cotton, wool, &c	630,370	Aug. 8	1216	267 268	88	978
Lowry, George A., Chicago, Ill., assignor to Planters Compress Company, of West Virginia. Bale-supporting device for presses	630,371	Aug. 8	1218	268	88	978
Lowry, George A., Chicago, Ill., assignor to Planters Compress Company, of West Virginia. Bale-supporting device	630,372	Aug. 8	1221	269	88	979
Lowry, George A., Chicago, Ill., assignor to Planters Compress Company, of West Virginia. Bale-supporting device for presses	630,373	Aug. 8	1223	269	88	979
Lowry, George A., Chicago, Ill., assignor to Planters Compress Company, Boston, Mass. Apparatus for compressing fibrous or other material	630,374	Aug. 8	1225	269 270	88	980
Loy, William H., and J. M. Groff, Victor, Iowa. Creaming-can	630,247	Aug. 1	956	209	88	911
Lübben, Hinrich, Hartwarderwurp, Germany. Exercising-machine	618,990	Feb. 7	381	79	86	884
Lucak, Mike, Cleveland, Ohio. Combined baby-carriage and cradle	622,244	Apr. 4	77	18	87	18
Lucas, Anthony F., Washington, D. C. Mining-caisson	637,137	Nov. 14	1766	379	89	1300
Lucas, Arthur L., Slater, Mo. Tongue-support	618,278	Jan. 24	2710	602	86	577
Lucas, Henry M. (See Swasey and Lucas.)						
Lucas, Henry M. (See Warner and Lucas.)						
Lucas, James B., Valley Springs, Cal. Miner's pick	623,025	Apr. 11	1517	351	87	310
Lucas, John R., *et al.* (See Corneil, Robert F., assignor.)						
Lucas, John T., Wasco, Oreg. Gang or cultivator plow	634,358	Oct. 3	744	177	89	149
Lucas, Ralph, London, England. Change-speed gear	639,256	Dec. 19	1961	451 452	89	2283
Lucas, William H., assignor to himself, F. H. Gliem, and J. P. Mathieu, Philadelphia, Pa. Cold-saw cutting-off machine	630,721	Aug. 8	1874	423 424	88	1101
Luce, Charles J., Niantic, Conn. Cotton-picking machine	631,373	Aug. 22	3055	692	88	1375
Luce, Don C., assignor to O. A. Miller, Brockton, Mass. Boot-tree	618,700	Jan. 31	3497	781	86	743
Luce, Grafton E. (See Root and Luce.)						
Luce, Joseph, Salt Lake City, Utah. Apparatus for treating ores by lixiviation	620,660	Mar. 7	223	46	86	1545
Luce, Joseph, Salt Lake City, Utah. Cell for the precipitation of metals	629,134	July 18	2221	515	88	470
Luciform Company. (See Bentley, John T., assignor.)						
Lucke, Fritz, Berlin, assignor to M. Hellinger, Untersachsenfeld, Germany. Shifting device for revolving tool-heads	626,208	May 30	4204	956	87	1591
Luckehe, Charles J. and T. T., Gridley Station, Cal. Draper-slat protector	631,526	Aug. 22	3338	759	88	1432
Luckehe, Theordor T. (See Luckehe, Charles J. and T. T.)						
Luckenbach, Harry, Seattle, assignor to W. McPhee, Snohomish county, Wash. Apparatus for volatilizing and burning oil	639,257	Dec. 19	1962	452	89	2283
Luckenbach, Royer, assignor of one-third to N. A. Stockton, Philadelphia, Pa. Lock	630,614	Aug. 8	1697	381	88	1067
Luckhardt, Ludwig, Cassel, Germany. Corset-stay	626,916	June 13	1323	291	87	1888
Luckhoff, Louis, Kenton, Ohio. Spike-extractor	619,424	Feb. 14	1170	263	86	1057
Luckow, Carl, Cologne-Deutz, Germany. Producing peroxid of lead	626,330	June 6	211	------	87	1653
Luckow, Carl, Cologne-Deutz, Germany. Producing neutral chromate of lead	626,331	June 6	212	------	87	1653
Luckow, Carl, Cologne-Deutz, Germany. Producing oxid of copper	626,547	June 6	600	------	87	1730
Luckow, Carl, Cologne-Deutz, Germany. Producing white lead by means of electrolysis.	627,002	June 13	1480	------	87	1920
Luckow, Carl, Cologne-Deutz, Germany. Producing acid chromate of lead	627,266	June 20	1938	------	87	2030
Luckow, Carl, Cologne-Deutz, Germany. Producing basic phosphate of copper by means of electrolysis	627,267	June 20	1939	------	87	2030
Ludeling, Frank B., Monroe, La. Nut and bolt lock	620,597	Mar. 7	82	16	86	1519
Ludeling, Hendrik, Padang, Sumatra. Tile	633,019	Sept. 12	1518	353	88	2021

Alphabetical list of patentees—Continued.

Name, residence, and invention.	No.	Date.	Monthly volume.		Official Gazette.	
			Spec.	Drg.	Vol.	Page.
Ludewig, William H., Rock Island, Ill. Uterine supporter	637,627	Nov. 21	3058	632	89	1609
Ludlow, David H., Easton, Pa. Eyeglasses and spectacles	635,494	Oct. 24	2849	650	89	611
Ludlow, James T., assignor to Vulcan Iron Works, San Francisco, Cal. Cold-storage apparatus	632,356	Sept. 5	265	62	88	1759
Ludlow, John H., Franklin, Nebr. Harrow	639,070	Dec. 12	1608	369 370	89	2199
Ludlow Valve Manufacturing Company. (See Stone, Jabez, assignor.)						
Ludlow, Washington I., assignor of one-half to D. R. Taylor, Cleveland, Ohio. Wheel-hub	623,409	Apr. 18	2238	512	87	467
Ludlow, William E., assignor to American Rail Joint and Manufacturing Company, Cleveland, Ohio. Rail-chair	621,261	Mar. 14	1347	299	86	1775
Ludwick, Ray A. (See Yerby and Ludwick.)						
Ludwig, Carl P., Woodward, Ala. Detachable door for dumping-cars	632,315	Sept. 5	198	45	88	1746
Ludwig, Charles V. F., St. Louis, Mo. Filtering apparatus	625,177	May 16	2230	506	87	1170
Ludwig, Henry E., Erie, Pa. Pump for compressing air or gas	637,516	Nov. 21	2479	537	89	1455
Ludwig, Jacob E., assignor of one-half to G. E. Park, San Francisco, Cal. Device for handling barrels	637,738	Nov. 21	3256	678 679	89	1648
Ludwig, Peter, Chicago, Ill. Steam-pump	630,812	Aug. 8	2031	458 459	88	1133
Luethi, Fredrick C., Chicago, Ill. Music-holder	617,588	Jan. 10	1384	314	86	288
Luethje, Henry. (See Burke, Eli, assignor.)						
Luff, John V. (See Laemmel, Albert, assignor.)						
Lufkin, Edward A., Beloit, Wis. Device for pulling stoppers or seals from bottles	635,330	Oct. 24	2493	579	89	541
Luger, Georg, Charlottenburg, Germany. Safety device for firearms	639,414	Dec. 19	2274	525 526	89	2346
Lugmayr, Louis C., Ypsilanti, Mich. Cut-off-valve gear for engines	636,271	Nov. 7	81	19	89	938
Lugo, Orazio, New York, N. Y., assignor, by mesne assignments, to Manufactured Rubber Company, Camden, N. J. Rubber substitute or artificial rubber	639,926	Dec. 26	3209	------	89	2552
Lugo, Orazio, New York, N. Y., assignor, by mesne assignments, to Manufactured Rubber Company, Camden, N. J. Manufacture of rubber substitutes	639,927	Dec. 26	3210	------	89	2552
Luhn, Richard, Haspe, Germany. Pump	629,577	July 25	3030	707	88	645
Luhr, Philip, Orange, N. J., assignor to Manhattan General Construction Company, of New York. Electric-arc lamp	630,905	Aug. 15	2197	500 501	88	1189
Luick, Henry M. (See Witte and Luick.)						
Luis, Caesar G., Denmark Hill, England. Acetylene-gas generator	621,262	Mar. 14	1348	299	86	1775
Luitwieler, Samuel W., and M. L. Wilkinson, Los Angeles, Cal.; said Wilkinson assignor to said Luitwieler. Mechanism for producing reciprocating motion	629,039	July 18	2035	474	88	434
Lukatis, Theodor H. A., Berlin, Germany. Feathering-blade for paddle-wheels	627,860	June 27	3059	669	87	2267
Luke, Charles, Milford, assignor, by mesne assignments, to New Haven Novelty Machine Company, New Haven, Conn. Pipe coupling or connection	633,324	Sept. 19	2142	502	88	2155
Luke, Charles, Milford, assignor, by mesne assignments, to New Haven Novelty Machine Company, New Haven, Conn. Pipe-coupling device	633,325	Sept. 19	2144	502	88	2156
Luke, Charles, Milford, assignor to New Haven Novelty Machine Company, New Haven, Conn. Prepayment attachment for meters	635,730	Oct. 24	3277	757 758	89	693
Luke, John W., Oklahoma, Okla. Ter. Printing attachment for roll-paper racks or holders	636,154	Oct. 31	4122	943	89	873
Luke, William, San Antonio, Tex. Lifting-jack	636,678	Nov. 7	810	179	89	1086
Lumbard, Frank H., assignor to Gerts, Lumbard & Company, Chicago, Ill. Detachable handle for brushes	632,131	Aug. 29	4459	1003	88	1661
Lumière, Auguste and L., Lyons, France. Photographic apparatus	634,560	Oct. 10	1111	263	89	239
Lumière, Louis. (See Lumière, Auguste and L.)						
Lumley, John. (See Borrowe and Lumley.)						
Lumsden, Charles B., *et al.* (See Newsom, Joseph N., assignor.)						
Lund, Laurentius A. W. (See Flomerfelt and Lund.)						
Lundberg, August W., Interbay, Wash. Horse-hitching device	638,729	Dec. 12	1039	232	89	2088
Lundell, Carl, New York, N. Y. Oil-can	633,724	Sept. 26	2879	669	88	2312
Lundell, Robert. (See Rennerfelt, Gustaf, assignor.)						
Lundell, Robert, New York, N. Y. Method of and means for regulating electric motors	626,178	May 30	4147	944	87	1580
Lundell, Robert, New York, N. Y. Electric motor or dynamo-electric machine	626,496	June 6	518	120	87	1714
Lundell, Robert, assignor to Johnson-Lundell Electric Company, New York, N. Y. Electric railway	625,512	May 23	2830	644	87	1311
Lundell, Robert, assignor of two-thirds to Sprague Electric Company, New York, N. Y. Electric motor	626,708	June 13	901	205	87	1807
Lundell, Robert, New York, N. Y., assignor to Bay State Electric Heat and Light Company, Jersey City, N. J. Electric heater	640,143	Dec. 26	3601	828	89	2632
Lunden, Johan, Gothenburg, Sweden. Velocipede	624,834	May 9	1636	370	87	1041
Lundgren, Emil, New Castle, Pa. Device for preventing accumulation of sand on railway-tracks	623,797	Apr. 25	2953	674	87	623
Lundgren, Reinhold. (See Dies and Lundgren.)						
Lundin, Andres G., Boston, Mass., assignor to Boston Cast Steel Casting Company, Boston, Mass., and Portland, Me. Molding material for making metallic castings	632,579	Sept. 5	677	------	88	1840
Lundin, Carl A. R., Cambridge, Mass. Telescopic mounting	617,108	Jan. 3	476	114	86	93
Lundquist, Carl A., *et al.* (See Smith, Louis B., assignor.)						
Lundquist, Frank A., Chicago, Ill. Telephone system	624,666	May 9	1309	292 293	87	976
Lundwall, Fritz G., Helleforsnäs, Sweden. Centrifugal pump	631,469	Aug. 22	3234	734	88	1411
Lundy, John C., Wilsonville, Canada, assignor to Monitor Manufacturing Company, Minneapolis, Minn. Disk attachment for drills	618,110	Jan. 24	2394	534	86	519
Lundy, Richard W., South Bend, Ind. Machine for lifting and conveying straightened bars	631,084	Aug. 15	2541	576	88	1256
Lungen, Adam, assignor to himself and R. Edwards, New York, N. Y. Circuit-controller	632,357	Sept. 5	266	62	88	1760
Lungren, Alfred, assignor of one-half to F. O. Eck, Malden, Ill. Catching and holding tool	625,178	May 16	2232	507	87	1171
Lungwitz, Emil E., Pueblo, Colo. Roasting ores	624,833	May 9	1635	370	87	1041
Lunken, Edmund H., Denver, Colo., and H. Ritter, Delhi, assignors to Lunkenheimer Company, Cincinnati, Ohio. Double throttle-valve	635,104	Oct. 17	2086	490	89	448
Lunken, Edmund H., Denver, Colo., assignor to Lunkenheimer Company, Cincinnati, Ohio. Straightway valve	639,258	Dec. 19	1963	452	89	2284
Lunkenheimer Company. (See Desmond, John, assignor.)						
Lunkenheimer Company. (See Lunken, Edmund H., assignor.)						
Lunkenheimer Company. (See Lunken and Ritter, assignors.)						
Lunkenheimer Company. (See Ritter, Henry, assignor.)						
Lunt, Emma O., Dover, N. H. Cover for washboilers	617,966	Jan. 17	2106	472	86	451
Lunt, Emma O., Dover, N. H. Clothes-pin	619,971	Feb. 21	2159	490	86	1273
Luppert, Valentine C., South Williamsport, Pa. Relishing attachment for tenoning-machines	623,485	Apr. 18	2369	545	87	494

Alphabetical list of patentees—Continued.

Name, residence, and invention.	No.	Date.	Monthly volume.		Official Gazette.	
			Spec.	Dr'g.	Vol.	Page.
Lurie, Abraham, and L. Biloon, New York, N. Y. Toasting and broiling apparatus	624,356	May 2	751	169	87	843
Lusebrink, Frederick W., Bridgeport, Conn. Handle-bar for cycles	620,242	Feb. 28	2643	602	86	1378
Luther & Lederhos. (See Coradino, Dominick, assignor.)						
Luther, Michael, Bridgeport, Conn. Car-fender	628,271	July 4	597	141	88	116
Luther, Sarah L., assignor of one-half to F. H. and W. C. Russell, Berlin, Wis. Glove. (Reissue)	11,753	June 27	3240	711	87	2307
Luthy, Stephen A. (See Dunbar, Emmerson E., assignor.)						
Lutnes, Peter O., Wahpeton, N. D. Windmill	628,011	July 4	97	20	88	20
Luttgens, Henry A., Paterson, N. J. Thill-coupling	634,116	Oct. 3	246	62	89	52
Luttnar, August, *et al.* (See Rakus, Leo, assignor.)						
Lutton, William J., Paterson, N. J. Intermediate-selvage-forming mechanism for looms	617,859	Jan. 17	1912	428	86	412
Lutton, William J., Paterson, N. J. Loom	628,206	July 4	463	111	88	92
Luttrell, James W., Chicago, assignor to himself and J. J. McCarthy, Austin, Ill. Spraying-nozzle	622,245	Apr. 4	77	18	87	18
Lutwyche, William and W. B., London, England. Translucent enamel	634,117	Oct. 3	248	------	89	53
Lutwyche, William B. (See Lutwyche, William and W. B.)						
Lutz, Albert J., New York, N. Y. Toy fireworks	638,416	Dec. 5	444	92	89	1950
Lutz, Anton. (See Holland, James E., assignor.)						
Lutz, Fred. (See Schuch, William, assignor.)						
Lutz, George B., Boiling Springs, Pa. Thill-coupling	639,415	Dec. 19	2276	526	89	2346
Lutz, Victor F., New York, N. Y. Window cupboard or refrigerator	626,917	June 13	1324	291	87	1889
Lutz, Wilhelm, assignor to Actien-Gesellschaft Fuer Patent Verwerthung, Nuremberg, Germany. Smoke-consuming furnace	617,533	Jan. 10	1282	291	86	270
Luvene, Andrew D., assignor to W. W. Kimball Company, Chicago, Ill. Piano-action	630,000	Aug. 1	513	112	88	824
Luxfer Prism Patents Company. (See Soper, Frank C., assignor.)						
Luxheim, Joseph A., Chicago, Ill. Decorated glass	618,605	Jan. 31	3325	------	86	709
Luxheim, Joseph A., Chicago, Ill. Decorating glass	618,606	Jan. 31	3326	------	86	709
Lyall, John, Glasgow, Scotland. Steering mechanism	619,972	Feb. 21	2160	490	86	1273
Lyall, John, Glasgow, Scotland. Cover or liner for screw-propeller shafts	639,071	Dec. 12	1609	370	89	2199
Lycan, Albert E., Paris, Ill. Harness-terret	617,109	Jan. 3	477	115	86	94
Lycan, Albert E., Paris, Ill. Fence	628,102	July 4	281	66	88	55
Lyke, William P., Jacksonville, N. Y. Step-ladder	626,839	June 13	1159	257	87	1856
Lyker, John, Root, N. Y. Car-brake	639,416	Dec. 19	2277	526	89	2346
Lyle, J. H. (See Donahue, Thomas, assignor.)						
Lyle, Robert W., assignor to Standard Fire-Proofing Company, Perth Amboy, N. J. Underground conduit	625,451	May 23	2729	621	87	1291
Lyle, Samuel F. (See Adcock and Lyle.)						
Lyles, Robert J. (See Dismukes, William L., assignor.)						
Lyman, Albert B., Baltimore, Md. Thill-coupling	630,001	Aug. 1	514	113	88	825
Lyman, Frederick S., Augusta, Me. Paper-pulp digester	620,243	Feb. 28	2644	603	86	1379
Lyman, James O., Waterbury, Conn. Secondary electric clock	619,771	Feb. 21	1793	411	86	1203
Lynch, James C., Walla Walla, Wash. Grain-header	635,264	Oct. 17	2363	552	89	499
Lynch, James T., *et al.* (See Brown, Robert A., assignor.)						
Lynch, Martin, Stoneco, N. Y. Roller-support for belt conveyers	625,342	May 23	2544	578	87	1255
Lynch, Mary E. (See Reilly, Thomas, assignor.)						
Lynch, Matthew W., Madison, Wis. Buckle	623,252	Apr. 18	1956	447	87	410
Lynch, Michael A., assignor to J. J. Sheehy, A. A. Thomas, and E. J. Turner, Washington, D. C. Breech mechanism for ordnance	617,110	Jan. 3	478	115	86	94
Lynch, Morris T., New York, N. Y., assignor to National Folding Box and Paper Company, New Haven, Conn. Knockdown or folding paper box	637,397	Nov. 21	2271	489	89	1415
Lynch, Richard J., Danbury, Conn. Hat-forming machine	632,841	Sept. 12	1204	275, 276	88	1962
Lynch, Vernon T., assignor of fifty-one one-hundredths to J. M. Roach, Chicago, Ill. Car-fender	627,584	June 27	2558	564	87	2167
Lyncker, Gustav A., Munich, Germany, assignor to J. Brandner, New York, N. Y. Fire-damp detector	617,111	Jan. 3	483	116	86	95
Lynen, Karl W. R., Aachen, Germany. Centrifugal governor and speed-indicator	618,423	Jan. 31	3009	666	86	649
Lyng, Markus H. (See Smith and Lyng.)						
Lynham, William C., Richmond, Va. Cartridge	631,085	Aug. 15	2545	576	88	1257
Lynk, Alexander, Nelson, Canada. Gage	630,248	Aug. 1	958	210	88	912
Lynn, David, Athens, Pa. Producing artificial woods	625,979	May 30	3699	------	87	1498
Lynn, Strother J., Knoxville, Tenn. Display-box cover	633,522	Sept. 19	2478	583	88	2220
Lynne, Elmer A., Westbrook, Conn. Snap-hook for fastening reins	637,138	Nov. 14	1768	379	89	1300
Lynott, John P., Louisiana, Mo. Stove	628,272	July 4	598	141, 142	88	116
Lyon, Charles W., assignor to E. F. Houghton & Co., Philadelphia, Pa. Lug-strap for loom-picker sticks	620,469	Feb. 28	3024	691	86	1452
Lyon, Charles W., assignor to E. F. Houghton & Co., Philadelphia, Pa. Press for forming picker-lug straps	633,870	Sept. 26	3122	724	88	2362
Lyon, Edward H., Englewood, N. J. Powder-box	621,686	Mar. 21	2126	474	86	1940
Lyon & Healy. (See Bennett, Robert J., assignor.)						
Lyon & Healy. (See Filstrup and Sennet, assignors.)						
Lyon & Healy. (See Neumann, Julius J., assignor.)						
Lyon, Henry, Manchester, England. Etching cylindrical surfaces	628,587	July 11	1198	280	88	251
Lyon, Henry, assignor of one-half to D. Stewart & Company, Limited, Glasgow, Scotland. Resistance and contact apparatus for electric currents	622,627	Apr. 4	790	183, 184	87	150
Lyon, Henry, assignor of one-half to D. Stewart & Company, Limited, Glasgow, Scotland. Resistance and contact apparatus for electric currents	622,628	Apr. 4	791	184	87	150
Lyon, Henry, and J. B. Talbot-Crosbie, Glasgow, Scotland. Refrigerating apparatus	635,560	Oct. 24	2962	678	89	632
Lyons, Albert S. (See Lyons, Francis and A. S.)						
Lyons, Alfred. (See Lyons, James, A., and G.)						
Lyons, Francis and A. S., New York, N. Y. Fan	625,179	May 16	2233	507	87	1171
Lyons, George. (See Lyons, James, A., and G.)						
Lyons, Hugh, Lansing, Mich. Hand for display-forms	620,598	Mar. 7	83	16	86	1519
Lyons, James, A., and G., Manchester, England. Apparatus for testing eggs	626,284	June 6	120	31	87	1636
Lyons, John E., West Carlisle, Ohio. Tellurian	617,589	Jan. 10	1386	315	86	289
Lyons, Mary, New York, N. Y. Body-brace	639,072	Dec. 12	1610	370	89	2199
Lyons, Mary, New York, N. Y. Finger-manipulator	639,073	Dec. 12	1611	371	89	2200
Lyrochord Manufacturing Company. (See Bernolak, Joseph, assignor.)						
Lyrophone Company. (See Bettini, Gianni, assignor.)						
Lyster, Anthony G., Liverpool, England, Hopper-barge	625,113	May 16	2130	484	87	1152
Lyte, Farnham M., London, England. Method of and apparatus for producing chlorin, zinc, or other metals from mixed ores	618,575	Jan. 31	3274	726	86	699
Lytle, Andrew J., Washington Court-House, Ohio. Horse-hoof planer	633,523	Sept. 19	2479	583	88	2220
Lytle, George I., West Superior, Wis. Poultry-nest box	621,499	Mar. 21	1781	396, 397	86	1870

Alphabetical list of patentees—Continued.

Name, residence, and invention.	No.	Date.	Monthly volume.		Official Gazette.	
			Spec.	Dr'g.	Vol.	Page.
M. A. Furbush & Son Machine Company. (See Barber and Cromie, assignors.)						
M. E. Kanaly Company. (See Kanaly, Morris E., assignor.)						
Maag, George. (See Clerkin and Maag.)						
Maas, Solomon, New York, N. Y. Tool-handle	626,867	June 13	1227	271	87	1869
Maass, Johann C., Bremen, Germany. Lock-lubricator	639,819	Dec. 26	3025	696	89	2515
Maass, Louis. (See Steinfeld, Barny S., assignor.)						
Mabee, Frean A., St. Louis, Mo. Churn	621,687	Mar. 21	2128	474	86	1940
Mabee, Leonia, St. Louis, Mo. Self-basting pan	626,029	May 30	3842	871	87	1524
Mabry, George A., and J. T. Morgan, Roswell, Ga. Plow	628,603	July 11	1218	285	88	255
MacArthur, John S., *et al.* (See Cowper-Coles, Sherard O., assignor.)						
MacCalla, Willard A. (See Anderson, Harry, assignor.)						
MacCallum, Archie A., Magog, Canada. Engraving-machine attachment	635,895	Oct. 31	3619	834	89	774
MacCauley, Lawrence A., and P. S. Gabrio, Des Moines, Iowa. Scale-beam attachment	620,606	Mar. 7	100	19	86	1522
MacCloud, Harry, Groton, N. Y. Bob-sled	628,949	July 18	1879	436	88	403
MacDonald, David J., Dundee, Scotland. Wefting mechanism for looms	633,020	Sept. 12	1519	353, 354	88	2021
MacFarland, Ira, New York, N. Y. Advertising apparatus	633,871	Sept. 26	3123	725	88	2362
MacGregor, John. (See MacGregor, Peter B. and J.)						
MacGregor, Peter B. and J., Elmira, N. Y. Brake-shoe	623,922	Apr. 25	3189	734	87	668
MacIntire, George R., assignor of one-half to E. P. Gleason, New York, N. Y. Electric-arc lamp	631,649	Aug. 22	3563	803	88	1477
MacKenzie, George W., Beaver, Pa. Spinning-top	629,382	July 25	2657	617	88	573
MacKenzie, George W., Beaver, assignor to I. B. Chantler, Sewickley, Pa. Electric switch and alarm	630,292	Aug. 1	1034	237	88	927
MacKenzie, John, Middlesbrough, assignor to W. Lames, Birmingham, England. Frame for cycles	620,787	Mar. 7	466	96	86	1593
MacKenzie, John, assignor to L. A. MacKenzie, Watervliet, N. Y. Seal-lock	637,629	Nov. 21	3061	633	89	1609
MacKenzie, Lucretia A. (See MacKenzie, John, assignor.)						
MacKinnon, Duncan T. H., Menasha, Wis. Excelsior-knife	624,514	May 9	1051	236	87	926
MacKinnon, Robert F. A., Centralia, Wis. Wheel-hub	628,823	July 11	1648	381	88	343
MacKnight, Smith P. (See Cain, Soderling, and MacKnight.)						
MacLearn, John P., Philadelphia, Pa. Index-holder	626,179	May 30	4150	944	87	1580
MacLulich, James M., Dundrum, Ireland. Manufacturing india-rubber or other endless bands or strips	622,774	Apr. 11	1061	246	87	221
MacRae, Duncan, *et al.* (See Walker, Joseph, assignor.)						
MacSpadden, John C., St. Joseph, Mo. Inflation-valve	625,114	May 16	2131	484	87	1152
Macafee, Judson, Athens, Pa. Milk-cooler	638,932	Dec. 12	1382	316	89	2156
Macardle, John S., Dundalk, Ireland. Method of and means for purifying casks	625,045	May 16	2002	451	87	1129
Macarthy, Fred. assignor of one-half to Sayre & Fisher Company, Sayreville, N. J. Brick-machine	625,781	May 30	3312	752, 753	87	1434
Macartney, Horace B., New York, N. Y. Flag	632,580	Sept. 5	678	157	88	1840
Macbeth, Charles E., Hamilton, Ohio. Flanging-machine	625,789	May 30	3330	756	87	1428
Maccallum, Patrick F., Helensburgh, Scotland. Apparatus for injecting fuel into combustion-chambers of internal-combustion engines	626,840	June 13	1160	258	87	1856
Maccoun, Andrew E., Braddock, Pa. Electric switch	621,263	Mar. 14	1349	299	86	1776
Macdonald, Alexander F. (See Riddell, John, assignor.)						
Macdonald, Angus J. (See Fleming, John C., assignor.)						
Macdonald, Bruce J., Flint, Mich. Drive-chain	629,515	July 25	2928	681	88	626
Macdonald, David, assignor of one-half to W. T. Tassie, Toronto, Canada. Self-sealing can	633,653	Sept. 26	2746	639	88	2285
Macdonald, Neil A. (See Anderson, Charles O., assignor.)						
Macdonald, Thomas H., Bridgeport, Conn., assignor to American Graphophone Company, of West Virginia. Coin-controlled graphophone	621,834	Mar. 28	2409	538	86	2008
Macdonald, Thomas H., Bridgeport, Conn., assignor to American Graphophone Company, of West Virginia. Sound-reproducer for graphophones	624,059	May 2	200	44	87	741
Macdonald, Thomas H., Bridgeport, Conn., assignor to American Graphophone Company, of West Virginia. Making graphophone-blanks	626,709	June 13	903	------	87	1807
Macdonald, Thomas H., Bridgeport, Conn., assignor to American Graphophone Company, of West Virginia. Machine for making graphophone recording-styles	628,544	July 11	1117	261	88	235
Macdonald, Thomas H., Bridgeport, Conn., assignor to American Graphophone Company, Washington, D. C. Lifting mechanism for graphophone-reproducers	636,822	Nov. 14	1126	241	89	1176
Macdonald, William, Halifax, Canada. Duplicate-design displayer	621,835	Mar. 28	2411	538, 539	86	2009
Macdonald, William, Halifax, Canada. Shipping, dispensing, and displaying case	639,746	Dec. 26	2886	665	89	2487
Mace, Cellestin, assignor of one-half to A. F. Fruhling, New York, N. Y. Fire-escape	639,902	Dec. 26	3164	728	89	2541
Mace, Joseph G., Hudson, Mass. Bottle	623,679	Apr. 25	2720	624	87	579
Macé, Paul P. H., and L. L. H. Gérard, Paris, France, assignors to La Société Internationale de l'Acétyléne, Brussels, Belgium. Acetylene-gas generator	630,722	Aug. 8	1876	424	88	1101
Macey, Frank. (See Macey, Fred and F.)						
Macey, Frank, Grand Rapids, Mich. File-case for cards	619,323	Feb. 14	992	224	86	1024
Macey, Frank, Grand Rapids, Mich. Combined drawer guide and support	625,576	May 23	2940	668	87	1333
Macey, Frank, Grand Rapids, Mich. Sectional bookcase	631,312	Aug. 22	2951	667, 668	88	1354
Macey, Frank, Grand Rapids, Mich. Card-index	639,747	Dec. 26	2888	665	89	2488
Macey, Fred, Grand Rapids, Mich. File-box	634,061	Oct. 3	130	33	89	30
Macey, Fred and F., Grand Rapids, Mich. File-case for cards	633,601	Sept. 26	2661	621	88	2368
Macey, William C., Vancouver, Canada. Heating-furnace	637,139	Nov. 14	1769	379	89	1300
Macfarlane, Alexander T., Glasgow, Scotland, and G. W. Bryant, Gravesend, England. Valve	619,589	Feb. 14	1428	328, 329	86	1106
Macfarren, Walter W., Pittsburg, Pa. Draftsman's square	635,050	Oct. 17	1968	466	89	425
Mach, Ludwig, Jena, Germany. Alloy of aluminium	629,084	July 18	2126	------	88	452
Machell, Hume E., London, England. Cupola-furnace	620,339	Feb. 28	2820	643	86	1413
Machine-Factory Rüte, formerly Caspar Honegger. (See Joubert, Joseph, assignor.)						
Macintosh, William R., Buffalo, assignor of one-half to C. A. Lee, Canastota, N. Y. Stopple for vessels	617,967	Jan. 17	2107	472, 473	86	451
Mack, Henry A., assignor to H. A. Mack Wood Working Company, Weatherly, Pa. Bobbin	632,132	Aug. 29	4460	1004	88	1661
Mack, John F., Little Valley, N. Y. Fire-escape and truck-ladder	628,629	July 11	1289	301, 302	88	270
Mackay, David, Dallas, Tex. Apparatus for preparing soil for planting	617,112	Jan. 3	484	116	86	95
Mackay, Frederick N., Willesden, England. Device for coupling bicycles	636,155	Oct. 31	4123	943, 944, 945	89	873
Mackay, John R., New York, N. Y. Steam-generator	637,628	Nov. 21	3060	633	89	1609
Mackenzie, John, Cleveland, Ohio. Brake-beam	631,428	Aug. 22	3162	718	88	1396

Alphabetical list of patentees—Continued.

Name, residence, and invention.	No.	Date.	Monthly volume. Spec.	Monthly volume. Dr'g.	Official Gazette. Vol.	Official Gazette. Page.
Mackenzie, John W. (See Evans, William, assignor.)						
Mackenzie, Thomas B. (See Powell, Colville, Jardine, and Mackenzie.)						
Mackeprang, Christian, A. F. Petersen, and J. F. Möller, Kiel, Germany. Hook for boat-detaching apparatus	629,383	July 25	2658	617	88	573
Mackey, Julia C., New Castle, Pa. Corset	619,590	Feb. 14	1431	330	86	1107
Mackey, Samuel P., Ridgefield, Wash. Weighing-machine	627,861	June 27	3061	669 670	87	2268
Mackey, Samuel P., Ridgefield, Wash. Weighing and measuring machine	639,074	Dec. 12	1613	371	89	2200
Mackey, William D, *et al.* (See Fergusson, Alan R., assignor.)						
Mackie-Lovejoy Manufacturing Company. (See Deknatel and Spruce, assignors.)						
Mackill, Robert, Glasgow, Scotland. Extracting nicotin	623,798	Apr. 25	2954	675	87	624
Mackin, Francis M., assignor to Henry McShane Manufacturing Company, Baltimore, Md. Adjustable pouring-stand and overflow or drip trough	633,872	Sept. 26	3126	726	88	2362
Mackintosh, Frederick, Schenectady, N. Y., assignor to General Electric Company, of New York. Electric-arc lamp	631,313	Aug. 22	2953	668	88	1355
Mackintosh, James H., Asbury Park, N. J. Animal-trap	622,700	Apr. 11	943	218	87	199
Mackintosh, William, New York, N. Y., assignor to S. W. Miller, Chicago, Ill. Flush-tank	627,778	June 27	2913	637	87	2239
Macklin, Oliver P., East Palestine, Ohio. Composition of matter for cleansing and polishing furniture	628,482	July 11	998	------	88	213
Mackolite Fireproofing Company. (See Seager, James B., assignor.)						
Macmaster, James R., Pomeroy, Wash. Apparatus for separating precious metals from their or s	617,466	Jan. 10	1159	265	86	244
Macmehan, David B., *et al.* (See Andrews, William M., assignor.)						
Macphail, James, Blue Island, Ill. Joint	631,046	Aug. 15	2468	559	88	1242
Macphail, James, Blue Island, Ill. Harrow	631,047	Aug. 15	2470	559	88	1242
Macphail, James, Blue Island, Ill. Harrow	631,048	Aug. 15	2471	560	88	1243
Macphail, James, Blue Island, assignor to Plano Manufacturing Company, Chicago, Ill. Harvester	618,111	Jan. 24	2395	534	86	519
Macphail, James, Blue Island, assignor to Plano Manufacturing Company, Chicago, Ill. Bundle-carrier for harvesters	621,929	Mar. 28	2592	584	86	2043
Macphail, James, Blue Island, assignor to Plano Manufacturing Company, Chicago, Ill. Sickle-grinder	629,798	Aug. 1	65	16, 17	88	733
Macphail, James, Blue Island, assignor to Plano Manufacturing Company, Chicago, Ill. Weight-equalizer for harvesters	635,788	Oct. 31	3401	784	89	732
Macphail, James, Blue Island, assignor to Plano Manufacturing Company, Chicago, Ill. Chain	635,789	Oct. 31	3402	785	89	732
Macphail, James, Blue Island, assignor to Plano Manufacturing Company, Chicago, Ill. Chain	635,790	Oct. 31	3403	785	89	732
Macphail, James, Blue Island, assignor to Plano Manufacturing Company, Chicago, Ill. Harvester	637,630	Nov. 21	3062	633 634	89	1610
Macphail, James, Blue Island, assignor to Plano Manufacturing Company, Chicago, Ill. Hay-rake	637,807	Nov. 28	3377	708	89	1692
Macphail, James, Blue Island, assignor to Plano Manufacturing Company, Chicago, Ill. Hay-rake	638,873	Dec. 12	1277	290	89	2134
Macrae, Roderick, Jersey City, N. J. Recording apparatus	617,534	Jan. 10	1283	291	86	270
Macrae, Roderick, Jersey City, N. J. Battery-switch	619,324	Feb. 14	994	224	86	1024
Macrae, Roderick, Baltimore, Md., assignor of one-half to W. C. L. Eglin, Philadelphia, Pa. Clamping-tool for manufacturing battery-electrodes	638,730	Dec. 12	1040	233	89	2089
Macrae, Roderick, Baltimore, Md., assignor of one-half to W. C. L. Eglin, Philadelphia, Pa. Device for automatically shaping, delivering, and stacking battery-plates	638,731	Dec. 12	1041	233	89	2089
Macrae, Roderick, Baltimore, Md., assignor of one-half to W. C. L. Eglin, Philadelphia, Pa. Supporting device for battery electrodes and cups	638,874	Dec. 12	1279	291	89	2134
Macri, Frank, Huntington, Oreg. Shears	628,483	July 11	999	233	88	213
Macy, Clarence A., assignor of one-half to C. V. Grohs, Rochester, N. Y. Back-pedaling brake	629,040	July 18	2037	474	88	434
Macy, Clarence A., Rochester, assignor to G. A. Beachem, Holley, N. Y. Coin-controlled bicycle-pump	631,802	Aug. 29	3861	861	88	1543
Macy, Jason W., Searsborough, Iowa. Road-grader	618,010	Jan. 17	2180	487	86	463
Macy, Jason W., Searsborough, Iowa. Road-grader	631,897	Aug. 29	4012	898	88	1574
Macy, Thomas G., assignor to A. W. Worthley, trustee, Boston, Mass. Smoke-consuming furnace	618,011	Jan. 17	2184	488	86	464
Madden, Patrick J., Chicago, Ill. Valve device for water-closets	637,967	Nov. 28	3685	775	89	1754
Madder, William, New Plymouth, New Zealand. Brake for two-wheeled vehicles	620,788	Mar. 7	467	96, 97	86	1593
Maddox, Benjamin P., *et al.* (See Berry, Charles M., assignor.)						
Maddox, Francis M. (See Holcombe and Maddox.)						
Maddox, Gustavus and J., Baltimore, Md. Picture-exhibitor	634,146	Oct. 3	306	78	89	64
Maddox, Herman L., Asbury Park, N. J. Vehicle-axle	639,178	Dec. 12	1797	416	89	2237
Maddox, John W. (See Holcombe and Maddox.)						
Maddox, Joseph. (See Maddox, Gustavus and J.)						
Maddrix, Francis T., and W. E. Godman, Crisfield, Md. Dredge-winder	619,591	Feb. 14	1432	330	86	1107
Madison, Payton, assignor of one-half to A. A. Richardson, Garfield, Ky. Railway safety-gate	638,667	Dec. 5	892	196 197	89	2039
Madison, William, Los Gatos, Cal. Fruit or vegetable cutter	621,264	Mar. 14	1351	300	86	1776
Madison, William, assignor of one-half to T. S. Comden, Los Gatos, Cal. Sash-lock and alarm	617,989	Jan. 17	2145	478 479	86	457
Mädler, Paul, Leipsic, Germany. Plate or slab material	629,085	July 18	2127	495	88	452
Madsen, Charles A. (See Nielsen and Madsen.)						
Maertens, Emile, Providence, R. I. Process of and apparatus for cleaning wool	630,293	Aug. 1	1035	228	88	927
Maertens, Emile, Providence, R. I. Cleaning wool	630,294	Aug. 1	1041	228	88	928
Maertens, Emile, Providence, R. I. Cleaning wool	630,295	Aug. 1	1045	228	88	929
Maertens, Emile, Providence, R. I. Cleaning wool	630,296	Aug. 1	1050	228	88	929
Magee, Frank A., Wenham, assignor to Magee Furnace Company, Boston, Mass. Heating-furnace	625,577	May 23	2942	668	87	1334
Magee, Frank A., Wenham, assignor to Magee Furnace Company, Boston, Mass. Device for operating dampers of furnaces or stoves	625,578	May 23	2943	668 669	87	1334
Magee, Frank A., Wenham, assignor to Magee Furnace Company, Boston, Mass. Damper for furnaces, stoves, &c	637,271	Nov. 21	2017	432 433	89	1363
Magee Furnace Company. (See Canfield, Felix P., assignor.)						
Magee Furnace Company. (See Magee, Frank A., assignor.)						
Magee Furnace Company. (See Page, William H., assignor.)						
Magee, Riley F., *et al.* (See Hynds, David H., assignor.)						
Magee, Wilber R., assignor of one-half to E. J. Griffis, Sidney, Ohio. Poultry device	633,554	Sept. 19	2536	595	88	2230
Magid-Hope Silk Manufacturing Company. (See Magid, Louis B., assignor.)						
Magid, Louis B., Boston, Mass., assignor to Magid-Hope Silk Manufacturing Company, Portland, Me. Apparatus for opening silk fibers	631,992	Aug. 29	4186	942	88	1606
Magill, Edwin B., La Crosse, Wis. Hat-stand	623,727	Apr. 25	2791	638	87	592

Alphabetical list of patentees—Continued.

Name, residence, and invention.	No.	Date.	Monthly volume.		Official Gazette.	
			Spec.	Dr'g.	Vol.	Page.
Maginn, Edward, Allegheny, Pa. Means for purifying water	629,578	July 25	3031	708	88	645
Magney, Joseph P., assignor to C. F. Quincy, Chicago, Ill. Door closer and check	618,476	Jan. 31	3088	684	86	664
Magnus, Edward C., Poppelsdorf-Bonn, Germany. Letter-file	630,375	Aug. 8	1230	270	88	981
Magnuson, Charles, St. John, Canada. Envelop	626,710	June 13	304	205	87	1808
Magruder, George C. W., Tennallytown, D. C. Tether	628,950	July 18	1881	436	88	403
Maguffee, James S., *et al.* (See Peikert, Albert, assignor.)						
Maguire, Albert M. (See Geisendorff and Maguire.)						
Maguire, David F. (See Manning, James A., assignor.)						
Maguire, George C., *et al.* (See Read, Walter C., assignor.)						
Maguire, Margaret, Windsor, England. Muff-lining	629,579	July 25	3032	708	88	646
Magune, Clarence L. (See Young and Magune.)						
Mahaffey, Alexander C., and J. O. Work, Seward, Nebr. Corn-planter	629,749	July 25	3337	778	88	704
Mahaffy, Alexander C., and G. W. Nigh, Seward, Nebr. Extension-table	620,789	Mar. 7	468	97	86	1593
Mahan, Jesse H., West Louisville, Ky. Gate	634,010	Oct. 3	54	15,16	89	14
Mahan, John H., Michaelsville, assignor of fifty-one one-hundredths to C. B. Clotworthy and G. W. Evans, Baltimore, Md. Poison-bottle stopper	625,272	May 16	2405	545	87	1203
Mahan, Patrick F., assignor of one-half to G. B. Wilson, Jersey City, N. J. Hog-scalding tub	617,932	Jan. 17	2053	460	86	441
Mahannah, Alva, and C. H. Berger, Casner, Ill. Hog-trap	619,196	Feb. 7	759	164	86	960
Mahaney, John C. (See Mock and Mahaney.)						
Mahany, Augustus M. (See Hamilton and Mahany.)						
Mahar, John. (See Chase, Frank E., assignor.)						
Mahar, Malicha P., West Bay City, Mich. Saw setting and jointing machine	633,725	Sept. 26	2881	669	88	2312
Mahar, Michael W., National Military Home, Ohio. Baby-carriage	622,158	Mar. 28	3017	683	86	2128
Maher, H. W., *et al.* (See Maher, Michael, assignor.)						
Maher, John, *et al.* (See Maher, Michael, assignor.)						
Maher, Mary A., *et al.* (See Maher, Michael, assignor.)						
Maher, Michael, Oneida, N. Y., assignor to M. A., J., H. W., and W. J. Maher. Thill-coupling	620,871	Mar. 7	623	136	86	1625
Maher, W. J., *et al.* (See Maher, Michael, assignor.)						
Mahncke, Hans, Colorado Springs, Colo. Extension-table	637,272	Nov. 21	2020	433	89	1364
Mahon, Alexander, Washington, D. C., assignor to Automatic Gas and Gasoline Engine Company, of Virginia. Gas or gasolene engine	625,180	May 16	2233	507, 508	87	1171
Mahon, John G., and C. E. Gower, Baldwyn, Miss. Pea or bean thresher	625,846	May 30	3445	782	87	1449
Mahon, Josiah. (See Cutten, Elisha B., assignor.)						
Mahoney, John J., Malden, Mass. Knapsack	621,265	Mar. 14	1353	300	86	1777
Mahony, James J., Akron, Ohio. Catch-basin	634,011	Oct. 3	55	16	89	15
Mahony, John J. (See Hall, Cofran I., assignor.)						
Mahony, John J., *et al.* (See Fraser, Ethelbert M., assignor.)						
Maiche, Louis, Paris, France. Apparatus for sterilizing water	639,592	Dec. 19	2585	594	89	2410
Maidhof, Henry S., New York, N. Y. Gage for embossing-machines	633,362	Sept. 19	2209	519	88	2168
Maidhof, Henry S., New York, N. Y. Adjustable stop for gage-plates	638,971	Dec. 12	1446	330	89	2169
Maier, Frank J., Trenton, N. J. Wire mattress	617,173	Jan. 3	600	141	86	117
Maier, Henry J., Locust Gap, Pa. Fire-escape	628,824	July 11	1650	381	88	343
Maignen, Jean A., Philadelphia, Pa. Filter	627,079	June 13	1597	349	87	1942
Maignen, Jean A., Philadelphia, Pa. Filter	628,987	July 18	1945	452	88	416
Maignen, Jean A., Philadelphia, Pa. Filtering organ	629,319	July 18	2537	590, 591	88	528
Maignen, Jean A., Philadelphia, Pa. Granular-bed filter	630,063	Aug. 1	647	140	88	851
Maignen, Jean A., Philadelphia, Pa. Filter	630,085	Aug. 1	681	147	88	858
Maignen, Jean A., Philadelphia, Pa. Filter	630,249	Aug. 1	959	210	88	912
Maignen, Jean A., Philadelphia, Pa. Filter	632,466	Sept. 5	465	105, 106	88	1799
Maine, Edwin R. (See Smith, Maine, and Pitts.)						
Mains, Samuel C. (See Hartshorn, Joseph, assignor.)						
Mainwaring, Charles E. F. M. (See Glasson, Alfred, assignor.)						
Mainz, Nicholas, and G. J. Zeller, Washington Heights, Ill. Radiator	621,114	Mar. 14	1092	237, 238	86	1724
Mainz, Nicholas, and G. J. Zeller, Washington Heights, Ill. Heating-drum	621,115	Mar. 14	1093	238	86	1725
Maitland, Charles G., and C. McCallum, Glasgow, Scotland. Nose or feed bag for horses	618,279	Jan. 24	2712	602	86	577
Maitland, John, assignor of one-half to W. Beattie, Cohoes, N. Y. Combined tension mechanism and slack-thread controller	625,579	May 23	2944	669	87	1334
Majert, Wilhelm, Berlin, Germany. Tool for making accumulator-plates	634,469	Oct. 10	943	224	89	206
Major, Thomas. (See Cunningham and Major.)						
Makinen, Henry, Ashtabula, Ohio. Folding table	633,203	Sept. 19	1884	444	88	2105
Makins, Walter R. (See Schumacher and Makins.)						
Makley, Louisa. (See Powell, Elmer, assignor.)						
Malaisé, Joseph A., Paris, France. Unhairing skins and transferring fur, feathers, hair, &c., to artificial backings	639,075	Dec. 12	1616		89	2201
Malam, William, Manchester, England. Apparatus for manufacturing wheels, pulleys, &c	619,197	Feb. 7	760	164, 165	86	961
Malarkey, Isabel E., San Francisco, Cal. Device for gaging and marking ladies' skirts	638,875	Dec. 12	1280	291	89	2135
Malatesta, Victor M., assignor to A. Schilling & Co., San Francisco, Cal. Box, package, or carton	632,222	Aug. 29	4621	1041	88	1692
Malchow, Louis, and J. Marble, Chicago, Ill. Molding-press	624,835	May 9	1637	370, 371	87	1041
Malcom, James B., Adolphus, Tenn. Nut-lock	621,688	Mar. 21	2129	474	86	1940
Males, Judson L., Paterson, N. J. Advertising apparatus	622,928	Apr. 11	1344	309	87	274
Malins, Arthur W. P., Hartford, Conn. Buckle	635,331	Oct. 24	2494	579	89	541
Mallalieu, Frank, assignor to Mechanical Fabric Company, Providence, R. I. Manufacture of inflatable tubes	631,803	Aug. 29	3864	861	88	1544
Mallard, William S., assignor of one-half to A. E. Dimmock and P. S. Clark, Darien, Ga. Druggist's label-case	631,874	Aug. 29	3979	890	88	1567
Mallett, Charles E., New York, N. Y., assignor of one-half to C. T. Harbeck and E. Urquhart. Cotton-press. (Reissue)	11,769	Sept. 5	905	210, 211, 212	88	1889
Mallett, John P. (See Lamme and Mallett.)						
Mallinckrodt, John F., Boulder, assignor of one-half to G. P. Schumacker, Denver, Colo. Hydrant	630,985	Aug. 15	2354	536	88	1219
Mallinckrodt, John F., Boulder, assignor of one-half to G. P. Schumacker, Denver Colo. Hydrant	636,909	Nov. 14	1305	280	89	1212
Mallinson, Charles, Liverpool, England. Grain-drier	624,515	May 9	1052	237	87	926
Mallinson, George, Carolina, R. I. Apparatus for dyeing loose stock	620,470	Feb. 28	3025	692	86	1452
Mallison, Jorge, Buenos Ayres, Argentina. Paint	620,599	Mar. 7	84		86	1519
Mallmann, James, Sheboygan, Wis. Calculating-machine	628,273	July 4	599	142, 143	88	116

Alphabetical list of patentees—Continued.

Name, residence, and invention.	No.	Date.	Monthly volume. Spec.	Monthly volume. Dr'g.	Official Gazette. Vol.	Official Gazette. Page.
Malloch, E. (See Conley, Andrew J., assignor.)						
Mallon, James, New Orleans, La., assignor of one-half to J. W. Bodley, Staunton, Va. Cultivator	634,825	Oct. 10	1556	366	89	325
Mallon, James, and O. Crepeau, South Bend, Ind. Sand-band	619,082	Feb. 7	539	113	86	915
Mallory, Alonzo R., Atlanta, Ga. Plow	621,307	Mar. 14	1430	316	86	1791
Mallory, Charles M., Flandreau, S. D. Wire-stitching machine	624,954	May 16	1848	415	87	1099
Mallory, Ernest E., West Unity, Ohio. Window-screen	638,346	Dec. 5	300	62	89	1924
Mallory, Ernest E., assignor of one-half to G. Smith, West Unity, Ohio. Window-screen	619,198	Feb. 7	762	165, 166	86	961
Mallory, Ernest E., and C. S. Stoner, assignors of seven-twelfths to H. C. and J. Miller, West Unity, Ohio. Saddle	639,748	Dec. 26	2889	666	89	2488
Mallory, Frank B., assignor to Mallory Manufacturing Company, Flemington, N. J. Cupboard-catch	627,432	June 20	2278	502	87	2097
Mallory, George B., assignor to H. E. Nesmith, Jr., New York, N. Y., and P. Campbell, Hoboken, N. J., trustees. Grain-elevator	635,561	Oct. 24	2963	678, 679, 680, 681	89	632
Mallory Manufacturing Company. (See Mallory, Frank B., assignor.)						
Malloy, John J., Portland, Oreg., assignor to Pacific Car Coupling Company, of Oregon. Car-coupling	621,836	Mar. 28	2413	539	86	2009
Malloy, Joseph M., Philipsburg, Pa. Window-sash balance	635,332	Oct. 24	2495	579, 580	89	541
Malmborg, Ernst R., Chicago, Ill. Time-stamp	629,580	July 25	3033	708	88	646
Malmquist, Charles, Sioux City, Iowa. Hay or manure loader	616,948	Jan. 3	162	37	86	32
Malmstrom, Peter E., assignor to Diamond Soda Water Manufacturing Company, New York, N. Y. Filtering device	635,864	Oct. 31	3547	816	89	759
Maloney, William F., Chicago, Ill. Calendar	629,864	Aug. 1	200	46	88	760
Maltby, John W., assignor to N. R. Maltby, Gates, N. Y. Roadway	619,592	Feb. 14	1434	330	86	1107
Maltby, Louis F., assignor of one-fourth to F. T. Owens, Waterbury, Conn. Police-nippers	636,439	Nov. 7	353	80	89	992
Maltby, Nellie R. (See Maltby, John W., assignor.)						
Malven, James H., assignor of one-half to W. H. Burnside, Divide, Colo., and H. R. Merry, Magog, Canada. Railway-tie plate	622,505	Apr. 4	566	133	87	107
Man, Alrick H. (See Protheroe and Man.)						
Manahan, Joseph A., New York, N. Y. Sash-balance	625,580	May 23	2947	670	87	1335
Manchee, John W. (See Conroy and Manchee.)						
Manchester, Alison, Barkhamsted, Conn. Artificial fly	633,726	Sept. 26	2882	670	88	2313
Manchester Cycle Components Company. (See Kitchen, John G. A., assignor.)						
Manchester, James B., Providence, R. I. Roof-collar and vent-pipe connection	627,433	June 20	2279	502	87	2098
Mandel, Henry G. (See Robertson and Mandel.)						
Mandel, Nathan, assignor of one-half to J. W. Kohlhepp, Chicago, Ill. Hog-conveyer	621,116	Mar. 14	1094	238, 239	86	1725
Mander, John, Philadelphia, Pa. Tubular gas water-heater	639,417	Dec. 19	2279	527	89	2347
Mandt, Targe G., Stoughton, Wis. Bolster-stake for vehicles	619,083	Feb. 7	540	114	86	915
Manes, Ephraim, Chattanooga, Tenn., assignor to McGregor & McCord Manufacturing Company. Harness-buckle	628,718	July 11	1457	338	88	303
Maney, John, and J. Stoever, Richfield Park, N. J.; said Stoever assignor to said Maney. Hand-truck	634,532	Oct. 10	1052	250	89	228
Mangels, Charles. (See Egbert, John, assignor.)						
Manger, Frederick W., New York, N. Y. Combined holder	618,425	Jan. 31	3011	666	86	650
Mangold, John A., Moundsville, W. Va. Ruler	621,529	Mar. 21	1837	408	86	1881
Manhattan Brass Company. (See Waibel and Gross, assignors.)						
Manhattan Brass Company. (See Waibel and Meytrott, assignors.)						
Manhattan General Construction Company. (See Luhr, Philip, assignor.)						
Manhattan Optical Company. (See Lange, George C. O., assignor.)						
Manhattan Typewriter Company. (See Price, John B., assignor.)						
Manitowoc Seating Company. (See Worthington, James, assignor.)						
Manley, Barney A., Rockford, Ill. Ball-caster	631,804	Aug. 29	3865	862	88	1544
Manly, Thomas, London, England. Photographic printing	628,012	July 4	100	------	88	21
Mann, Charles A., Buffalo, N. Y. Screw-driver	625,046	May 16	2004	451	87	1130
Mann & Co., F. W. (See Littlefield, George E., assignor.)						
Mann, Frederick M., Franklin, Pa. Apparatus for distilling petroleum	619,593	Feb. 14	1435	331	86	1107
Mann, Friedrich A. (See Schlegelmilch and Mann.)						
Mann, Houston, Piute, Cal. Railway ore-pulverizer	639,418	Dec. 19	2280	527	89	2347
Mann, John, Butte City, Cal. Fruit or vegetable cleaner and grader	638,585	Dec. 5	748	161	89	2009
Mann, Louis, assignor to Fink, Bodenheimer & Co., New York, N. Y. Ear-ring	625,890	May 30	3536	803	87	1466
Mann, Louis T., Chicago, Ill. Means for transmitting power from axles to bodies of railway-cars	633,385	Sept. 19	2252	530, 531	88	2176
Mann, William, *et al.* (See Barr, Addison, assignor.)						
Mann, William B., Baltimore, Md. Air-brake	630,376	Aug. 8	1231	270	88	981
Mann, William B., Baltimore, Md. Air-brake valve	630,377	Aug. 8	1234	271	88	981
Mann, William B., Baltimore, Md. Triple valve for air-brakes	630,378	Aug. 8	1236	271	88	981
Mann, William B., Baltimore, Md. Triple valve for air-brakes	630,379	Aug. 8	1238	271	88	982
Mann, William B., Baltimore, Md. Engine for air-pumps	630,380	Aug. 8	1241	272	88	982
Mann, William B., Baltimore, Md. Apparatus for operating air-brakes	630,381	Aug. 8	1244	272	88	983
Mann, William B., Baltimore, Md. Apparatus for operating air-brakes	630,382	Aug. 8	1248	273	88	983
Mann, William B., Baltimore, Md. Triple valve	630,383	Aug. 8	1252	273, 274	88	984
Mann, William B., Baltimore, Md. Engineer's valve	630,384	Aug. 8	1255	274	88	984
Mann, William T. (See Darling and Mann.)						
Manney, Thomas E., Providence, R. I. Tire for bicycles or other vehicles	634,501	Oct. 10	993	237	89	216
Manning Bowman & Company. (See Manning, Edward B., assignor.)						
Manning Bowman & Company. (See Savage, George E., assignor.)						
Manning Bowman & Company. (See Savage and Seips, assignors.)						
Manning, Charles E., Chicago, Ill. Window and light-reflecting device	618,280	Jan. 24	2713	602	86	577
Manning, Charles E., Chicago, Ill. Protective illuminative grating	620,471	Feb. 28	3028	692	86	1453
Manning, Charles E., Chicago, Ill. Illuminating window-glass	622,506	Apr. 4	567	133	87	107
Manning, Charles E., Chicago, Ill. Illuminating window-glass	631,220	Aug. 15	2764	626	88	1300
Manning, Charles E., Chicago, Ill. Glass-cutting machine	635,265	Oct. 17	2365	552, 553	89	500
Manning, Charles J., Cambridge, Mass. Sawing-machine	629,516	July 25	2930	682	88	626
Manning, Edward B., assignor to Manning Bowman & Company, Meriden, Conn. Glazed hollow sheet-metal tableware	632,657	Sept. 5	820	190	88	1871
Manning, Harry G., Fitchburg, Mass. Saw-tool	632,133	Aug. 29	4461	1004	88	1661
Manning, James A., assignor of one-half to D. F. Maguire, Toronto, Canada. Excelsior-cutting machine	634,895	Oct. 17	1690	399	89	368

Alphabetical list of patentees—Continued.

Name, residence, and invention.	No.	Date.	Monthly volume. Spec.	Monthly volume. Dr'g.	Official Gazette. Vol.	Official Gazette. Page.
Manning, Stephen H., *et al.* (See Reynolds, Frank A., assignor.)						
Manning, William T., Baltimore, Md. Rail	621,117	Mar. 14	1097	239	86	1725
Manns, Albert G., and C. H. McDowell, Chicago, Ill. Drier	629,384	July 25	2659	618	88	573
Manrow, Charles A., assignor of one-half to W. E. Manrow, Goshen, Ind. Combined roof cornice and gutter	618,797	Jan. 31	3662	819	86	776
Manrow, William E. (See Manrow, Charles A., assignor.)						
Mansfield, Albert K., Salem, Ohio. Car-bolster	621,458	Mar. 21	1707	378	86	1857
Mansfield, Albert K., Salem, Ohio. Indicator apparatus for fluid-pressure engines	635,791	Oct. 31	3404	785	89	733
Mansfield, Albert K., Salem, Ohio. Oiling and indicator-operating mechanism	638,518	Dec. 5	628	130	89	1986
Mansfield, James W., Boston, Mass., assignor to Standard Machinery Company, Mystic, Conn. Sheet-feeding machine	635,792	Oct. 31	3406	786	89	733
Mansion, Matthew J., *et al.* (See McGovern, Edward, assignor.)						
Mansur, John H. (See Lee, Edward T., assignor.)						
Manton, Joseph P., Providence, R. I. Steam steering apparatus	627,585	June 27	2560	564	87	2168
Manuel, George W., Oakland, Cal. Sash-fastener	639,419	Dec. 19	2281	527	89	2347
Manufactured Rubber Company. (See Lugo, Orazio, assignor.)						
Manville, Frank B., and C. S. Weeks, Waterbury, Conn., assignors to Brockner Evans Bale Tie Company, St. Louis, Mo. Machine for making bale-ties	617,253	Jan. 3	734	171, 172, 173	86	144
Manwaring, Leverett A., Lebanon, Conn. Floor-setting tool	634,561	Oct. 10	1112	264	89	239
Many, Frank B., Cleveland, Ohio. Combined coin and check collecting box	634,359	Oct. 3	746	178	89	149
Many, Frank B., Cleveland, Ohio. Combined coin and check collecting box	634,360	Oct. 3	746	178	89	149
Manzel, Adolph W. F. (See Manzel, Charles F. W., assignor.)						
Manzel, Charles F. W., assignor of one-half to A. W. F. Manzel, Buffalo, N. Y. Oil-pump	635,694	Oct. 24	3200	738	89	679
Mapes, Joseph C., Alba, Tex. Cotton-gin-saw cleaner	638,732	Dec. 12	1043	234	89	2089
Maple, Alfred L. (See Hardy and Maple.)						
Maple, John W. (See Neff and Maple.)						
Marbach, Charles J. (See Christensen, Martin F., assignor.)						
Marbach, Herman L. (See Moon and Marbach.)						
Marbach, Herman L., assignor of one-half to O. P. Moon, Lorain, Ohio. Valve mechanism	631,650	Aug. 22	3565	804	88	1477
Marble, Jesse. (See Malchow and Marble.)						
Marble, Webster L., Gladstone, assignor of one-half to F. H. Van Cleve, Escanaba, Mich. Tool-handle fastening	623,169	Apr. 18	1812	415	87	381
Marcay, Edmond C. de, Paris, France. Incandescent lamp	631,221	Aug. 15	2765	626	88	1300
Marcellus, William G. T. (See Dorn, Christian, assignor.)						
March, Howard C., Portage, Ohio. Repair-tool for pneumatic tires	622,377	Apr. 4	306	71	87	59
Marchand, Louis, Allegheny, Pa. Oval-cutting machine	618,889	Feb. 7	126	27	86	829
Marchand, Napoléon E., Montreal, Canada. Magazine-camera	636,823	Nov. 14	1127	242	89	1176
Marchant, George F., Chicago, Ill. Pedal	618,424	Jan. 31	3010	666	86	649
Marchew, Jacob. (See Kurmann, Konrad, assignor.)						
Marchlewski, Leon. (See Claus, Rée, and Marchlewski.)						
Marchlewski, Leon P., Manchester, E. S. Wilson, Strood, and E. Stewart, London, England. Making dyes	633,245	Sept. 19	1979		88	2124
Marcille, Edward, Decatur, Ill. Chuck	617,113	Jan. 3	487	116, 117	86	96
Marconi, Guglielmo, assignor to Wireless Telegraph and Signal Company, Limited, London, England. Apparatus employed in wireless telegraphy	624,516	May 9	1054	237, 238	87	926
Marconi, Guglielmo, assignor to Wireless Telegraph and Signal Company, Limited, London, England. Apparatus employed in wireless telegraphy	627,650	June 27	2691	590	87	2195
Marcum, John F., and G. Hauenstein, Olds, Iowa. Gate-fastener	626,180	May 30	4150	945	87	1581
Marcus, David, London, England. Velocipede	620,790	Mar. 7	470	97	86	1593
Marcuse, Milton E., assignor to Hasker & Marcuse Manufacturing Company, Richmond, Va. Sheet-metal can	633,524	Sept. 19	2480	583	88	2220
Marcuse, Moses M., assignor to Hasker & Marcuse Manufacturing Company, Richmond, Va. Cigarette-box	629,263	July 18	2432	563	88	508
Mardis, Martin L., Salem, Ohio. Railway-track bumper	634,896	Oct. 17	1691	399	89	369
Marengo, Alexander, assignor of three-fourths to J., R., and J. C. Marengo, Point St. Charles, Canada. Cigar-making machine	625,047	May 16	2006	451, 452	87	1130
Marengo, Joseph, *et al.* (See Marengo, Alexander, assignor.)						
Marengo, Joseph C., *et al.* (See Marengo, Alexander, assignor.)						
Marengo, Raphael, *et al.* (See Marengo, Alexander, assignor.)						
Mariner, Abbott L., Medford, Mass., assignor to Orient Manufacturing Company. Hinged case	628,103	July 4	282	66	88	56
Mariner, James M., assignor of one-half to W. S. Lewis, Loyalton, Cal. Detachable saw-handle	637,880	Nov. 28	3536	741	89	1725
Mariner, Joseph G. (See Du Bois, Henry L., assignor.)						
Mario, Adolfo, Turin, Italy. Tanning	626,181	May 30	4151	945	87	1581
Marion, Jonathan N., Louisville, Ky. Amalgamator	619,199	Feb. 7	764	166	86	961
Maris, John M., Chicago, Ill. Self-dumping car for coke	630,385	Aug. 8	1260	274, 275	88	985
Marius, Casteran J., West Hoboken, N. J. Electromedical battery	632,316	Sept. 5	199	45	88	1746
Marjerison, James, Lawrence, Mass. Spinning-machine	618,229	Jan. 24	2626	580, 581	86	561
Mark, Henry J., St. Louis, Mo. Cushioning-pad for packing-cases	626,240	June 6	43	10	87	1623
Mark, Henry J., St. Louis, Mo. Corrugated wood veneer	627,756	June 27	2877	629	87	2233
Mark, Henry J., St. Louis, Mo. Partition-packing	629,041	July 18	2039	474, 475	88	434
Mark, J. G., *et al.* (See Hosmer, Arthur, assignor.)						
Mark, Jacob, New York, N. Y. Vault-light or illumination-tile	629,197	July 18	2323	539	88	488
Markel, Arthur R., Columbus, Ohio. Vertically-adjustable burner-supporting attachment for chandeliers	625,452	May 23	2730	621	87	1291
Markell, Peter V. (See Irish and Markell.)						
Market Street Railway Company. (See Foster, Samuel L., assignor.)						
Markey, Joseph W., Miami, Ind. Ter. Chuck-bone holder	636,824	Nov. 14	1129	242	89	1177
Markgraf, Albert, and H. Boemermann, New York, N. Y. Game-counter	617,174	Jan. 3	600	141	86	118
Markham, Arthur B., Chesterfield, assignor to Vickers, Sons & Maxim, Limited, Sheffield, England. Percussion-fuse for shells	627,003	June 13	1480	324	87	1920
Markham, Harry, assignor of one-half to W. I. Thayer, San Rafael, Cal. Letter-opener	635,495	Oct. 24	2850	651	89	611
Markie, Emma, assignor of one-half to E. S. Arms, Cleveland, Ohio. Hook and eye	621,118	Mar. 14	1098	239	86	1725
Markillie, Alpha D., Basco, Ill. Fence-wire stretcher	633,268	Sept. 19	2021	475	88	2131
Markle Lead Works. (See Sebastian, Charles, assignor.)						
Markle, Levi D., Norwich, N. Y. Music-box	624,955	May 16	1849	416	87	1099
Markley, Albert C., *et al.* (See Green, Eddie V., assignor.)						
Markley, George W., *et al.* (See Green, Eddie V., assignor.)						
Markmann, Johann H. F., Hamburg, assignor to Rockstroh & Schneider Nachfolger, Löbtau, Germany. Sheet-delivery apparatus for platen printing-presses	623,799	Apr. 25	2956	675	87	624

Alphabetical list of patentees—Continued.

Name, residence, and invention.	No.	Date.	Monthly volume.		Official Gazette.	
			Spec.	Dr'g.	Vol.	Page.
Marks, Albert, Spring Lake, assignor to E. H. Heath, Madison, Wis. Portable filtering device	634,470	Oct. 10	943	224	89	206
Marks, Alfred, San Francisco, Cal. Holder for directories, catalogues, &c	625,048	May 16	2008	452	87	1130
Marks, Arthur H., Akron, Ohio. Reclaiming rubber from vulcanized-rubber waste	635,141	Oct. 17	2167	505	89	463
Marks, Emil, *et al.* (See Breeding, John W., assignor.)						
Marks, F. R. (See Bott, George M., assignor.)						
Marks, George C. (See Fenby, Edgar B., assignor.)						
Marks, Henry J., Toowoomba, Queensland. Egg-holder for boiling eggs	620,044	Feb. 21	2297	521	86	1299
Marks, James F., Mattoon, Ill. Valve	633,463	Sept. 19	2383	561	88	2201
Marks, William H. (See Recker, Henry, assignor.)						
Markwort, Christian, Uelzen, Germany. Apparatus for cleaning tubes of evaporators or like apparatus	632,532	Sept. 5	596	136	88	1826
Marley, William H., Pittsburg, Pa. Package-carrier for bicycles	633,386	Sept. 19	2255	532	88	2176
Marlin, James T., Kansas City, Mo. Labeling-machine	621,308	Mar. 14	1433	{317 318	86	1792
Marlow, Henry, London, England. Sole	634,361	Oct. 3	747	178	89	149
Marmier, Louis. (See Abraham and Marmier.)						
Maroney, Thomas, Buffalo, N. Y. Artificial fish or bait	627,344	June 20	2088	461	87	2060
Marquand, Augustus J., Cardiff, England. Secondary-battery plate and producing same	624,230	May 2	533	114	87	800
Marquardt, Joseph, New York, N. Y. Pipe-thimble	631,314	Aug. 22	2954	668	88	1355
Marquis, Orrin K. (See McConnell, Fleming, assignor.)						
Marr, Anster. (See Butter and Marr.)						
Marrder, Charles A., assignor, by mesne assignments, to Signal and Control Company, New York, N. Y. Valve	632,223	Aug. 29	4622	1042	88	1692
Marriner, Floyd, *et al.* (See Bell, Joseph M., assignor.)						
Marriott, Elmas W. (See Harmeyer, Horace W., assignor.)						
Marriott, James H. (See Curtis and Marriott.)						
Marschütz, Carl and H., Nuremberg, Germany. Spanner	635,562	Oct. 24	2972	681	89	634
Marschütz, Heinrich. (See Marschütz, Carl and H.)						
Marsden, Algernon M. (See Warrick, John, assignor.)						
Marsden, Algernon M., London, England. Apparatus for advertising purposes	623,486	Apr. 18	2371	{545 546	87	494
Marsden, Charles H., *et al.* (See Robson, James T., assignor.)						
Marsden Company. (See Marsden, Mark W., assignor.)						
Marsden, James, Wigan, England. Marking out patterns	626,182	May 30	4153	945	87	1581
Marsden, James, Wigan, England. Marking cloth and apparatus therefor	627,779	June 27	2915	637	87	2239
Marsden, James, Wigan, England. Device for perforating templets	630,615	Aug. 8	1699	382	88	1067
Marsden, Mark W., Philadelphia, Pa. Binder for pulverulent materials	621,579	Mar. 21	1922	------	86	1898
Marsden, Mark W., Philadelphia, Pa. Material for packing	622,054	Mar. 28	2819	------	86	2088
Marsden, Mark W., Philadelphia, Pa., assignor, by mesne assignments, to Marsden Company, Camden, N. J. Packing or filling for vessels	625,343	May 23	2544	578	87	1256
Marsden, Thomas R., Oldham, England. Means for regulating feed of textile materials to openers	619,425	Feb. 14	1171	264	86	1057
Marsden, Thomas R., Oldham, England. Carding-engine	631,022	Aug. 15	2421	549	88	1232
Marsh, Albert D., Ovid, N. Y. Tongs	621,356	Mar. 21	1526	339	86	1823
Marsh, Augustus A., Orlando, Fla. Weed-turner for plows	624,357	May 2	752	169	87	844
Marsh, Byron F., Eustis, Fla. Fountain-pen	637,631	Nov. 21	3064	634	89	1610
Marsh, Charles E., B. D. Crosley, and W. Bruner, Fort Madison, Iowa. Gate	636,440	Nov. 7	355	80	89	998
Marsh, Dora F., Newport, Ky. Pan-lifter	629,799	Aug. 1	67	17	88	734
Marsh, Edmund P., and E. Millett, Springfield, Mass. Crucible-furnace	619,973	Feb. 21	2161	{490 491	86	1273
Marsh, Ednor A. (See Smith, George W., assignor.)						
Marsh, Edward B., Amherst, assignor to F. R. Allen, Boston, Mass. Corner-bead	617,881	Jan. 17	1958	438	86	421
Marsh, Ernest W., Carolina, West Indies. Feed-water regulator for boilers	624,836	May 9	1639	371	87	1042
Marsh, Fred, Grant, Nebr. Automatic watering-trough	621,610	Mar. 21	1972	440	86	1908
Marsh, George A., Ong, Nebr. Plow	627,620	June 27	2640	580	87	2185
Marsh, George A., assignor to Marsh Plate Glass Company, Pittsburg, Pa. Apparatus for holding glass	631,855	Aug. 29	3950	883	88	1562
Marsh, George A., assignor to Marsh Plate Glass Company, Pittsburg, Pa. Glass-holding table	631,856	Aug. 29	3952	883	88	1562
Marsh, George A., assignor to Marsh Plate Glass Company, Pittsburg, Pa. Table for holding plate-glass	631,857	Aug. 29	3953	{883 884	88	1562
Marsh, George A., assignor to Marsh Plate Glass Company, Pittsburg, Pa. Apparatus for grinding, smoothing, and polishing glass	631,898	Aug. 29	4013	898	88	1574
Marsh, George A., assignor, by mesne assignments, to Pittsburg Plate Glass Company, Pittsburg, Pa. Glass grinding and polishing machine	637,881	Nov. 28	3536	741	89	1725
Marsh Plate Glass Company. (See Marsh, George A., assignor.)						
Marsh, William S., Intervale, Me. Ax-handle	631,117	Aug. 15	2600	587	88	1267
Marshall, Albert T., Brockton, Mass. Automatic refrigerating apparatus	630,616	Aug. 8	1700	{382 383	88	1068
Marshall, Albert T., Brockton, Mass. Automatic expansion-valve for refrigerating apparatus	630,617	Aug. 8	1706	383	88	1068
Marshall, Albert T., Brockton, Mass. Automatic regulator for electric motors	630,618	Aug. 8	1709	384	88	1069
Marshall & Brothers, James. (See Jackson, William H., assignor.)						
Marshall & Brothers, James. (See Marshall, John, assignor.)						
Marshall, Charles L., Newark, N. J. Lamp	636,387	Nov. 7	272	61	89	976
Marshall, Charles L., assignor to New Jersey Wick Company, Newark, N. J. Wick	632,902	Sept. 12	1328	305	88	1983
Marshall, Charles L., assignor to New Jersey Wick Company, Newark, N. J. Wick for incandescent oil-lamps	632,903	Sept. 12	1329	305	88	1984
Marshall, Edward R., Turner's Falls, Mass. Refining-engine for paper-pulp	635,563	Oct. 24	2973	{681 682	89	634
Marshall, Edward S., St. Louis, Mo. Truck-bolster	622,055	Mar. 28	2820	636	86	2088
Marshall, Frank D., *et al.* (See Mitchell, Michael, assignor.)						
Marshall, Frank J., Turner's Falls, Mass. Paper-making machine	635,266	Oct. 17	2367	553	89	500
Marshall, Frederick A., Detroit, Mich. Match-box machine	635,142	Oct. 17	2168	506	89	463
Marshall, George. (See Sunderland and Marshall.)						
Marshall, George S., St. Louis, Mo. Draft-rigging	622,056	Mar. 28	2822	636	86	2088
Marshall, James J., Sydney, New South Wales. Barrel or cask racking apparatus	629,517	July 25	2932	{682 683	88	626
Marshall, John, assignor to J. Marshall & Brothers, Fall River, Mass. Hat-sizing roller	623,285	Apr. 18	2021	464	87	424
Marshall, John B., Fresno, Cal. Window	628,104	July 4	283	66,67	88	56
Marshall, Percy S., assignor to Copley, Marshall & Company, Limited, Huddersfield, England. Apparatus for mercerizing	634,362	Oct. 3	748	178	89	149
Marshall, Porter, Fair Play, Mo. Sash-holder	616,949	Jan. 3	163	37	86	33
Marshall, Thomas T., Hamilton, Canada. Adjustable circular heel for boots or shoes	638,347	Dec. 5	303	63	89	1924
Marshall, William, Rankin, Ill. Combined hog-trap and crate	629,865	Aug. 1	202	46	88	760

Alphabetical list of patentees—Continued.

Name, residence, and invention.	No.	Date.	Monthly volume.		Official Gazette.	
			Spec.	Drg.	Vol.	Page.
Marshall, William A., Ludington, Mich. Machine for truing pulleys	627,862	June 27	3065	670	87	2268
Marshall, William D., Franklin Square, Ohio. Barrel-hoop	621,530	Mar. 21	1838	408	86	1881
Marshall, William D., Franklin Square, Ohio. Barrel-hoop. (Reissue)	11,735	Apr. 18	2407	552	87	501
Marshman, Newman R., New York, N. Y. Type-writing machine	636,156	Oct. 31	4127	945	89	874
Marshman, Newman R., New York, N. Y. Type-writing machine	638,131	Nov. 28	4022	847	89	1820
Marsky, Emil, San José, Cal. Detachable-leaf ledger	639,420	Dec. 19	2282	527	89	2347
Marsters, James F., New York, N. Y. Whistle or call	623,728	Apr. 25	2793	639	87	592
Marston, Dudley J., assignor of one-half to Carriage Machine Company, Amesbury, Mass. Carriage-coupling	627,699	June 27	2776	608	87	2210
Martel, Gideon, Chippewa Falls, Wis. Threshing-machine	632,271	Sept. 5	117	26 27 28	88	1730
Martel, Léon, assignor of one-half to A. Loiseau, Point St. Charles, Canada. Lock	629,453	July 25	2789	648 649	88	600
Martenette, Frank L., Chico, Cal. Carbureter	629,581	July 25	3035	709	88	646
Martenson, Andrew, Cleveland, Ohio. Bed-sofa	617,754	Jan. 17	1696	381	86	369
Martien, Benjamin F. (See Hixson, Frank, assignor.)						
Martin, Alfred, Rockford, Ill., assignor of one-half to C. E. Thompson, Trumansburg, N. Y. Filter for conductor-pipes	617,032	Jan. 3	328	78	86	64
Martin, Arthur F., Chester, Cal. Hay-rake attachment	626,434	June 6	405	96	87	1692
Martin, Arthur J. (See Cameron, Commin, and Martin.)						
Martin, Charles, assignor to Compagnie de Metallurgie Générale, Brussels, Belgium. Chemically preparing and treating rebellious ores	635,695	Oct. 24	3202	------	89	679
Martin, Charles B., New York, N. Y. Rail-insulator	619,974	Feb. 21	2164	492	86	1274
Martin, Charles F., administrator. (See Scearcy and Martin.)						
Martin, Charles H., Fredonia, N. Y. Cushion-heel	632,467	Sept. 5	467	106	88	1799
Martin, Charles M. (See Bean, John C., assignor.)						
Martin, Charles W., Oneonta, N. Y. Poison-distributer	639,820	Dec. 26	3026	696	89	2515
Martin, David G., Philadelphia, Pa. Bicycle-rack	624,231	May 2	534	114	87	801
Martin Edmond, Potsdam, N. Y. Chimney-cowl	620,472	Feb. 28	3029	693	86	1453
Martin, Edouard, Paris, France. Manufacture of compound wire	625,116	May 16	2135	485	87	1152
Martin, Edouard, Paris, France. Manufacture of compound plates	625,117	May 16	2136	485	87	1153
Martin, Edward G., Gibson City, Ill. Vapor-burner	620,661	Mar. 7	226	46	86	1546
Martin, Edward P., Dowlais, and R. Price-Williams, assignors to Railway Switch and Crossing Company, Limited, London, England. Tongue-rail for railway-switches	635,021	Oct. 17	1905	453	89	411
Martin, Eugene T. (See Waggoner, James G., assignor.)						
Martin, Francis C., New York, N. Y. Device for preventing sea-beaches from washing away	639,179	Dec. 12	1798	416	89	2237
Martin, Francis J., Philadelphia, Pa. Valve	619,594	Feb. 14	1437	331 332	86	1108
Martin, Frederick W., Hamilton, Canada. Automatic recorder	639,180	Dec. 12	1799	417	89	2237
Martin, George F., Corydon, Ind. Electrical machine	620,473	Feb. 28	3029	693	86	1453
Martin, George F., Springfield, assignor, by mesne assignments, to National Mattress Machine Company, Boston, Mass. Mattress-filling machine	621,119	Mar. 14	1099	239	86	1726
Martin, Guy, *et al.* (See Burnham, Oliver K., assignor.)						
Martin, Harry K., Montreal, Canada. Fire-hose support	618,250	Jan. 24	2663	590	86	568
Martin, Herman, Vermilion, assignor to himself, and J. C. Gilchrist, Cleveland, Ohio. Wire fence	637,632	Nov. 21	3065	634	89	1610
Martin, Herman W., Ilion, N. Y. Fishing-rod	638,733	Dec. 12	1044	234	89	2089
Martin, Isaac A., Ouray, Colo. Plumb-bob	625,181	May 16	2236	509	87	1172
Martin, James F., Stanford, Ky. Gate-latch	619,772	Feb. 21	1795	411	86	1203
Martin, James L., assignor to himself and E. C. Wynkoop, Marion Centre, Pa. Wrench	623,800	Apr. 25	2957	675	87	624
Martin, James M., Knoxville, Tenn. Wire-crimping machine	626,183	May 30	4154	946	87	1582
Martin, John A. (See Ahern and Martin.)						
Martin, John H., *et al.* (See Sincock, David, assignor.)						
Martin, John W. (See Mercer, Joseph R., assignor.)						
Martin, Joseph, Hartwick, Iowa. Hay-loader shaft	619,201	Feb. 7	769	167	86	962
Martin, Joseph A., Pittsburg, Pa. Attachment for brushes	619,975	Feb. 21	2166	492	86	1274
Martin, Joseph H., and D. Ormand, Riverside, Cal. Machine for constructing irrigating or other pipes	639,858	Dec. 26	3089	710	89	2527
Martin, Karl, Homburg-vor-der-Höhe, Germany. Plumb-level	635,564	Oct. 24	2976	682	89	635
Martin, Louis B. (See Sargent and Martin.)						
Martin, Milton M. (See Jones, Charles W., assignor.)						
Martin, Oliver S. (See Scearcy and Martin.)						
Martin, Orland W., and A. J. Petter, assignors of two-thirds to F. W. Braun & Co., Los Angeles, Cal. Assaying-furnace	635,586	Oct. 24	3010	691	89	641
Martin, Orlando E., Wakefield, Nebr. Nail or spike drawing device	619,325	Feb. 14	995	225	86	1025
Martin, Pearl, Medford, Mass. Apparatus for forming ice	622,860	Apr. 11	1217	284	87	250
Martin, Peter. (See Rousseau, John, assignor.)						
Martin, Robert E., Annapolis, Md. Tuning-peg for musical instruments	631,118	Aug. 15	2601	587	88	1267
Martin, Robert H., New York, N. Y. Filter	634,897	Oct. 17	1692	400	89	369
Martin, Samuel S., New York, N. Y. Cap or cover for cans	619,976	Feb. 21	2167	492	86	1275
Martin, Schuyler W., Sailors Rest, Tenn. Gate	628,013	July 4	101	21	88	21
Martin, Thomas C., Warren, Mass. Bicycle-cleaner in form of a glove	617,755	Jan. 17	1697	381	86	370
Martin, Thomas E., Chicago, Ill. Furnace-grate	619,494	Feb. 14	1284	294	86	1080
Martin, Thomas E., Barmer, England. Seed-drill and horse-hoe	634,178	Oct. 3	360	92	89	74
Martin, Thomas P., Jr., Fort Worth, Tex. Pass-book	635,170	Oct. 17	2208	515	89	470
Martin, Timpron P., Liverpool, England. Illuminative advertising and decorative apparatus	625,049	May 16	2009	452 453	87	1131
Martin, Torrence F. (See Winner and Martin.)						
Martin, Walter L., Moffatt's Creek, Va. Clothes-pin	639,259	Dec. 19	1964	453	89	2284
Martin, William D., Warsaw, N. Y. Brush and mop holder	635,333	Oct. 24	2496	580	89	541
Martin, William L., Rancocas, N. J. Bicycle	617,535	Jan. 10	1285	291	86	270
Martin, William L., Rancocas, N. J. Bicycle	617,536	Jan. 10	1287	291	86	270
Martin, William P., Bethelridge, Ky. Jar closure or sealing device	623,326	Apr. 18	2094	480	87	438
Martindale, Edward S., assignor to Kinnear Manufacturing Company, Limited, Warren, Pa. Acetylene-gas generator	637,633	Nov. 21	3066	634 635	89	1611
Martindale, James H., Fort Worth, Tex. Folding cot	633,525	Sept. 19	2481	584	88	2220
Martindale, John H., assignor to R. H. Kinnear Manufacturing Company, Limited, Warren, Pa. Measuring vessel	632,190	Aug. 29	4577	1031	88	1684
Martindale, William, Alliston, Canada. Safety-hook	630,064	Aug. 1	648	140	88	851
Martini, Adolf, Berlin, Germany. Self-igniting chimney-cap	625,344	May 23	2545	578	87	1256
Martini, Adolf, and F. Deimel, Berlin, Germany, assignors to said Martini. Gas-ignition apparatus	619,200	Feb. 7	768	166	86	962
Martino, Frederick W., and F. Stubbs, Sheffield, England. Treating ores containing precious metals	635,793	Oct. 31	3408	------	89	733

Alphabetical list of patentees—Continued.

Name, residence, and invention.	No.	Date.	Monthly volume. Spec.	Monthly volume. Dr'g.	Official Gazette. Vol.	Official Gazette. Page.
Martino, Frederick W., and F. Stubbs, Sheffield, England. Precipitating gold from chlorid or bromid solutions	637,140	Nov. 14	1770	------	89	1301
Martinot, Charles, and A. Galland, Bitschweiler, Germany. Spinning-frame	621,531	Mar. 21	1840	408	86	1882
Martins, Francisco F., and L. B. Haskell, Gloucester, Mass. Store-goods lifter	636,541	Nov. 7	548	121	89	1032
Marty, John M., Jr., assignor to Kelly Handle Bar Company, Cleveland, Ohio. Handle-bar for bicycles	624,232	May 2	536	114	87	801
Marty, John M., Jr., assignor of one-half to E. Kells, Cleveland, Ohio. Vehicle handle-bar	637,517	Nov. 21	2481	538	89	1455
Martyn, Benjamin F. (See Goldsmith and Martyn.)						
Martz, Benjamin F., assignor of two-thirds to H. Hahne, Greenfield, and W. J. Borrey, Fairmount, Ind. Lawn-trimmer	638,056	Nov. 28	3857	811	89	1788
Martz, Randolph N., Frederick, Md. Wire-stretcher	625,453	May 23	2731	621	87	1291
Martz, Randolph N., Frederick, Md. Picket-fastener for wire fences	637,634	Nov. 21	3069	635	89	1611
Martz, Randolph N., assignor to S. D. Thomas, M. Fout, and L. Cromer, Frederick, Md. Shutter bower and fastener	618,701	Jan. 31	3498	781	86	743
Marvel, Theodore L., Taunton, Mass. Endless conveyer	628,274	July 4	608	143	88	117
Marvin, Frank W., Detroit, Mich. Lubricator	630,065	Aug. 1	649	140	88	851
Marx, Andreas, Fürstenberg, Germany. Water-bicycle	636,412	Nov. 7	307	70	89	983
Marx, Andreas, Fürstenberg, Germany. Water bicycle or velocipede	638,132	Nov. 28	4023	847	89	1820
Marx, George B., New York, N. Y. Coal-wagon	626,711	June 13	906	205	87	1808
Marx, George B., New York, N. Y. Hand-cart	636,051	Oct. 31	3907	897	89	830
Marx, John, New York, N. Y. Bolt-fastener	637,141	Nov. 14	1771	380	89	1301
Marx, Otto. (See Bower, William C., assignor.)						
Marxsen, Adolf, Osdorf, Germany. Insecticide	633,766	Sept. 26	2950	------	88	2326
Mary, Charles A., Paris, France. Apparatus for overhead traction	630,250	Aug. 1	960	210, 211	88	912
Maschek, Edmund. (See Petram and Maschek.)						
Maschinenbau-Actien-Gesellschaft Nürnberg. (See Rieppel, Anton, assignor.)						
Maschinenfabrik Grevenbroich. (See Hirt, Ludwig, assignor.)						
Maschinenfabriken, vormals Gebrüder Guttsmann & Breslauer, Metallgiesserei Actien-Gesellschaft. (See Beckmann, Oswald, assignor.)						
Maschmeyer, Charles, Meriden, Conn., assignor to Edward Miller & Company, of Connecticut. Hanging lamp	632,731	Sept. 12	1000	232	88	1919
Mase, August F. (See Mase, Frederick W., assignor.)						
Mase, Frederick W., Oshkosh, assignor of one-half to A. F. Mase, Milwaukee, Wis. Gearing	632,875	Sept. 12	1287	295, 296	88	1975
Masini, Lorenzo, assignor of one-half to G. A. Seigliano, Boston, Mass. Cartridge for multiple cannon	634,826	Oct. 10	1559	366	89	326
Masion, Alfred, Brussels, and J. Dethier, Dampremy; said Dethier assignor to E. Gobbe, Jumet, Belgium. Apparatus for manufacturing chains	636,157	Oct. 31	4131	946	89	875
Mason, Alexander, Fort Madison, Iowa. Lever-operated sliding gate	618,112	Jan. 24	2396	534, 535	86	519
Mason, Charles T., Sumter, S. C. Circuit and apparatus for bridging telephones	626,624	June 6	715	165, 166	87	1754
Mason, Clinton V. (See Stuart, Fred W., assignor.)						
Mason & Co., E. T. (See Smallwood, John H., assignor.)						
Mason, Daniel A. (See See, Lindstrom, and Mason.)						
Mason, David, New York, N. Y. Submarine photographic camera	631,222	Aug. 15	2766	626	88	1301
Mason, David, New York, N. Y. Apparatus for cleaning hulls of vessels	633,873	Sept. 26	3127	726	88	2362
Mason, David, New York, N. Y. Means for cleaning hulls of vessels	635,938	Oct. 31	3685	851	89	786
Mason, David, New York, N. Y. Means for repairing vessels while afloat	635,939	Oct. 31	3688	852	89	786
Mason, Earl P., Newport, R. I., assignor to Draper Company, Portland, Me., and Hopedale, Mass. Loom	628,226	July 4	497	121	88	99
Mason, Earl P., Newport, R. I., assignor to Draper Company, Portland, Me., and Hopedale, Mass. Spinning-ring holder	628,825	July 11	1651	382	88	343
Mason, Earl P., Newport, R. I., assignor to Draper Company, Portland, Me., and Hopedale, Mass. Thread-parter for looms	634,852	Oct. 10	1618	379	89	337
Mason, Edward R., *et al.* (See Avery, Tracy G., assignor.)						
Mason, Francis C., Grand Rapids, Mich. Caster-socket	617,467	Jan. 10	1161	265	86	244
Mason, Francis C., assignor to Bissell Carpet Sweeper Company, Grand Rapids, Mich. Ball-bearing for carpet-sweepers	629,518	July 25	2936	683	88	627
Mason, Frank J., assignor of one-half to J. F. Monaghan, Detroit, Mich. Hand-truck	626,332	June 6	212	52	87	1653
Mason, George E., Baltimore, Md. Tent	620,600	Mar. 7	85	16	86	1519
Mason, Gilbert M., Cambridge, Iowa. Folding brooder or coop	635,794	Oct. 31	3409	786	89	733
Mason, Harry R., Chicago, Ill. Fluid-pressure signal-valve	620,601	Mar. 7	85	17	86	1519
Mason, James A., Altoona, assignor to J. L. Greenwald, trustee, Philadelphia, Pa. Hydrocarbon-burner	628,826	July 11	1652	382	88	343
Mason, James F., Waycross, Ga., assignor of two-thirds to D. H. Arnold and L. C. Drake, Nicholasville, Ky. Ore washer and separator	622,507	Apr. 4	569	133	87	107
Mason, James H., New York, N. Y. Direct-acting reciprocating electric motor	618,702	Jan. 31	3500	781	86	743
Mason, Joseph, assignor to American Mutoscope Company, New York, N. Y. Coin-detector	617,421	Jan. 10	1089	248	86	231
Mason, Joseph, London, England, assignor to American Mutoscope Company, New York, N. Y. Consecutive-view apparatus	629,582	July 25	3037	709, 710	88	647
Mason Machine Works. (See Eaton, Joseph S., assignor.)						
Mason Machine Works. (See Eaton, Russell W., assignor.)						
Mason Machine Works. (See Meats, John T., assignor.)						
Mason Machine Works. (See Robinson, John A., assignor.)						
Mason, Melville A. (See Keeran, William H., assignor.)						
Mason Regulator Company. (See Mason, William B., assignor.)						
Mason, Stephen C., Pittsburg, Pa. Car-coupling	621,266	Mar. 14	1354	301	86	1777
Mason, Thomas. (See Fee and Mason.)						
Mason, Thomas, Montreal, Canada. Railway-car axle-box	626,070	May 30	3908	887, 888	87	1536
Mason, Thomas B., Trenton, N. J. Adjustable seat	633,021	Sept. 12	1520	354	88	2021
Mason, William, assignor to Winchester Repeating Arms Company, New Haven, Conn. Guard for front sights of firearms	625,581	May 23	2948	670	87	1335
Mason, William B., assignor to Mason Regulator Company, Boston, Mass. Pressure-regulator	617,933	Jan. 17	2054	460, 461	86	441
Mason, William B., assignor to Mason Regulator Company, Boston, Mass. Pumping apparatus	617,934	Jan. 17	2056	461	86	441
Mason, William H., Leesburg, Ohio. Fence-ratchet	636,158	Oct. 31	4132	946	89	875
Mason, William R., assignor of three-fourths to S. M. Carlton, S. Walker, D. E. Morris, A. M. Walker, E. S. Crumley, and J. B. Loftin, Hillsborough, Tex. Rotary engine	625,182	May 16	2237	509	87	1172
Masser, Andrew Y., Three Rivers, assignor of one-third to E. A. Masser, Corey, Mich. Weather-strip	625,404	May 23	2641	600	87	1275

Alphabetical list of patentees—Continued.

Name, residence, and invention.	No.	Date.	Monthly volume.		Official Gazette.	
			Spec.	Dr'g.	Vol.	Page.
Masser, Edward A. (See Masser, Andrew Y., assignor.)						
Massey, G. W. (See Shaffer, William J., assignor.)						
Massey, George, Sydney, New South Wales. Railway-car window	630,251	Aug. 1	962	211	88	912
Massey-Harris Company. (See Johnston and Clokey, assignors.)						
Massey-Harris Company. (See McBride, Thomas J., assignor.)						
Massey, Thomas C., Chicago, Ill. Means for classifying lists of names	630,906	Aug. 15	2201	501	88	1190
Massie, Mitford C., Washington, D. C. Apparatus for producing electric currents	617,901	Jan. 17	2004	447	86	430
Masson, Alfred, Beauvais, and E. Fortin, Paris, France. Machine for turning pearl buttons, &c	624,060	May 2	201	44	87	741
Masson, Alfred, Beauvais, and E. Fortin, Paris, France. Machine for planing tool-steel	624,061	May 2	202	44	87	741
Mast, Foos & Company. (See Pfeifer, John, assignor.)						
Masten, Cornelius E., assignor to Masten & Wells Fireworks Manufacturing Company, Boston, Mass. Signaling-torch	626,241	June 6	44	10	87	1623
Masten & Wells Fireworks Manufacturing Company. (See Masten, Cornelius E., assignor.)						
Masters, Alexander. (See Kurth and Masters.)						
Masters, Charles B. (See Adams and Masters.)						
Masters, Joseph H., Chicago, Ill. Plant-setter	617,403	Jan. 10	1049	238	86	223
Masterson, Bernard W., San Antonio, Tex. Car-coupling	618,113	Jan. 24	2398	535	86	520
Mastin, Asa. (See Hipolito and Mastin.)						
Matchett, Charles H., New York, N. Y. Apparatus for hauling or drawing cables	637,739	Nov. 21	3257	679, 680	89	1649
Matheas, Frederick D., Bangor, Me. Supporting-hook for fire-hose	622,246	Apr. 4	79	19	87	19
Mather, Allan G., Milwaukee, Wis., assignor to Edward P. Allis Company, of Wisconsin. Exhaust apparatus for roller-mills, &c	627,514	June 27	2423	533	87	2141
Mather, Allan G., and F. T. Snyder, Milwaukee, Wis. Ore-concentrator	628,105	July 4	284	67	88	56
Mather, Allan G., and F. T. Snyder, Milwaukee, Wis. Valve for engines	628,630	July 11	1298	303	88	271
Mather, Edmund, Harrisburg, Pa. Blow-off protector	630,386	Aug. 8	1263	275	88	985
Mather, Henry W., Roseville, N. J., assignor of one-half to G. W. Millar and W. D. May, New York, N. Y. Rotary paper-cutter	620,944	Mar. 14	758	166	86	1661
Mathes, Andrew J., Lost Mountain, Tenn. Churn	630,297	Aug. 1	1054	229	88	930
Mathews, Gilbert L. (See Cosner and Mathews.)						
Mathewson, Frank E., assignor to Lamb Manufacturing Company, Chicopee, Mass. Ball-bearing	623,327	Apr. 18	2095	481	87	438
Mathewson, Frank E., assignor to Lamb Manufacturing Company, Chicopee Falls, Mass. Chainless bicycle	632,581	Sept. 5	679	157	88	1841
Mathewson, Otis G., Topeka, Kans. Refrigerator	638,255	Dec. 5	100	23	89	1885
Mathey-Doret, Alfred, La Chaux-de-Fonds, Switzerland. Manufacturing balance-wheels for watches	639,821	Dec. 26	3027	697	89	2515
Mathias, Elsworth A., Caledonia, Ohio. Animal-trap	622,057	Mar. 28	2823	636	86	2089
Mathias, Jules F., Gonesse, France. Apparatus for effecting selection of wheat-grains for sowing	628,827	July 11	1654	382, 383	88	344
Mathieu, John P., *et al.* (See Lucas, William H., assignor.)						
Mathieu, Louis, Paris, France. Driving-gear for motor-vehicles	635,171	Oct. 17	2209	515	89	471
Mathieu, Victor, and F. Dery, Paris, France. Sensitized photographic paper and making same	624,837	May 9	1641		87	1042
Mathis, August, *et al.* (See Rogers, Charles W., assignor.)						
Mathis, Julien W., *et al.* (See Rogers, Charles W., assignor.)						
Matignon, Laurent, La Garenne-Colombes, France. Inflating attachment for floats, &c	625,582	May 23	2949	670	87	1335
Matlack, Ellwood V., St. Louis, Mo. Reversing-switch for electric motors	635,496	Oct. 24	2852	651	89	611
Matrai, Alexander, Buda-Pesth, Austria-Hungary. Construction of walls, floors, ceilings, &c	634,986	Oct. 17	1851	439	89	401
Matsler, David W. (See Harding, William Y., assignor.)						
Matson, Henry J., Havre, France. Ship's boat supporting and launching device	621,611	Mar. 21	1974	441	86	1908
Mattern, George A., Berkeley, Cal. Suspensory-bandage	639,260	Dec. 19	1965	453	89	2284
Mattes, John, and J. A. Norton, Odebolt, Iowa. Time-alarm	634,012	Oct. 3	56	16	89	15
Matteson, George F., assignor to Waterbury Machine Company, Waterbury, Conn. Wire-winding machine	630,907	Aug. 15	2203	502	88	1190
Mattews, William, and G. Andricht, Milwaukee, Wis. Exhaust-nozzle	624,062	May 2	203	45	87	742
Matthews, Charles. (See Hewitt, Cockle, and Matthews.)						
Matthews, George, assignor to himself and J. H. Matthews, New York, N. Y. Apparatus for dispensing liquids	634,695	Oct. 10	1333	315	89	282
Matthews, George F., Montreal, Canada. Acetylene-gas generator	631,527	Aug. 22	3339	759	88	1432
Matthews, John H. (See Matthews, George, assignor.)						
Matthews, Joseph, New Bedford, Mass. Stop mechanism for engines	626,071	May 30	3910	888	87	1536
Matthews, Lafayette. (See Blanchard, Matthews, and Watkins.)						
Matthews, Luther, Paris, Tenn. Baling-press	630,252	Aug. 1	963	212	88	912
Matthews, Marmaduke, assignor of one-half to A. and A. Jardine, Bracondale, Canada. Pedal and pedal-bearing	630,463	Aug. 8	1427	319	88	1015
Matthews, Marmaduke, assignor of one-half to A. and A. Jardine, Bracondale, Canada. Cycle	634,062	Oct. 3	131	33, 34	89	30
Matthewson, Ernest G., London, England. Coin-freed game	619,897	Feb. 21	2038	462, 463	86	1250
Matthias, William C. (See Kissinger and Matthias.)						
Mattingly, James M., Hartford, Ky. Flour-packer	621,612	Mar. 21	1976	441	86	1908
Mattison Machine Company. (See Becker, Christian, assignor.)						
Mattson, Samuel, New York, N. Y. Self-lubricating sheave	638,057	Nov. 28	3858	811	89	1788
Mattson, William H. (See Chapman, Joseph L., assignor.)						
Mauchline, Robert, New Holland, Pa. Attachment for swifts	631,086	Aug. 15	2547	577	88	1257
Mauer, Peter, *et al.* (See Burkart, Nicolas, assignor.)						
Mauger, George A., assignor of one-half to H. R. Kasson, Kansas City, Mo. Combined tamping and rolling machine	619,426	Feb. 14	1173	265, 266	86	1057
Mauger, George A., assignor of one-half to H. R. Kasson, Kansas City, Mo. Combined tamping and rolling machine	619,977	Feb. 21	2168	493	86	1275
Maul, Christian, assignor to Johnston Harvester Company, Batavia, N. Y. Beet-harvesting machine	618,544	Jan. 31	3218	714	86	688
Maul, Ellwood F. (See Batten and Maul.)						
Maul, John A., Minneapolis, Minn. Window ventilating device	625,891	May 30	3537	803	87	1467
Maule, Edward H., Birmingham, England. Apparatus for preventing condensation of moisture	624,358	May 2	753	169	87	844
Mauran, William A., Providence, R. I. Protecting-cover for bottles	620,850	Mar. 7	585	127	86	1617
Maurer, Henry, *et al.* (See Lighthall, Almerin H., assignor.)						
Maurer, Henry A. (See Lighthall, Almerin H., assignor.)						
Maurer, Philipp, Wiesbaden, Germany. Apparatus for conveying and collecting house refuse	636,825	Nov. 14	1131	243	89	1177
Maurer, William F., Harmony, Ind. Nest for fowls	619,595	Feb. 14	1438	332	86	1108

Alphabetical list of patentees—Continued.

Name, residence, and invention.	No.	Date.	Monthly volume. Spec.	Monthly volume. Dr'g.	Official Gazette. Vol.	Official Gazette. Page.
Maurice, Just L., Paris, and F. Chaplet, Laval, France. Means for stopping shot-holes in water-tight compartments of ships	617,902	Jan. 17	2007	447	86	430
Maurice, Louis, Chicago, Ill. Traveling-rug	620,945	Mar. 14	760	166	86	1662
Maurice, Lucien, Paris, France. Accumulator of heat	625,892	May 30	3538	804	87	1467
Maurice, Paul, St. Etienne, assignor of one-half to La Société Nouvelle des Établissements de L'Horme et de la Buire, Lyons, France. Centrifugal washing apparatus for coals, ores, &c.	634,987	Oct. 17	1853	440 441	89	401
Mauro, Giovanni, assignor of one-third to G. Harris and J. Di Carlo, Paterson, N. J. Car-fender	628,275	July 4	610	144	88	118
Mauser, Alfons. (See Breuning, Eugen, assignor.)						
Mauser, Paul, Oberndorf, Germany. Recoil-operated firearm	639,421	Dec. 19	2284	528 529	89	2348
Mavor & Coulson. (See Sayers, William B., assignor.)						
Mawson, David S., Cazenovia, N. Y. Stanchion	632,017	Aug. 29	4230	952	88	1616
Maxey, James W., assignor of one-half to L. Linkenhelt, Plymouth, Ind. Churn	631,171	Aug. 15	2688	608	88	1284
Maxey, John V., Mount Vernon, Ill. Lifting device	632,055	Aug. 29	4304	967 968	88	1630
Maxfield, Adolphus F. (See Putnam and Maxfield.)						
Maxham, Lowell M., Boston, Mass. Electric third-rail system	623,610	Apr. 25	2603	595	87	556
Maxham, Lowell M., Boston, Mass. System of electric traction	637,006	Nov. 14	1503	323 324	89	1250
Maxim, Hiram P., Hartford, Conn., assignor to Pope Manufacturing Company, Hartford, Conn., and Portland, Me. Explosive-engine	620,602	Mar. 7	88	17,18	86	1520
Maxim, Hiram P., H. M. Pope, and H. W. Alden, Hartford, Conn. Driving mechanism for vehicles	621,532	Mar. 21	1841	409	86	1882
Maxim, Hiram S., London, England. Apparatus for manufacturing filaments for electric lamps	618,703	Jan. 31	3501	782	86	743
Maxim, Hiram S., London, England. Manufacturing filaments for electric lamps	618,704	Jan. 31	3503	782	86	744
Maxim, Hiram S., London, England. Regulator for electric-car motors	625,454	May 23	2732	622	87	1291
Maxim, Hiram S., London, England. Pump	629,750	July 25	3339	779	88	705
Maxim, Hiram S., London, England. Mercurial air-pump	639,593	Dec. 19	2587	594	89	2410
Maxim, Hiram S., and A. T. Dawson, assignors to Vickers, Sons & Maxim, Limited, London, England. Gas-check for projectiles	628,106	July 4	289	67,68	88	57
Maxon, Thomas, Dayton, Ohio. Lifting-jack	635,105	Oct. 17	2087	491	89	448
Maxson, Frank W., Rochester, N. Y. Machine for repairing pneumatic tires	617,033	Jan. 3	328	78	86	65
Maxson, William P., Commercial Point, Ohio. Water-feed device	633,526	Sept. 19	2482	584	88	2220
Maxwell, Albert H., Council Bluffs, Iowa. Two-wheeled tongueless riding-cultivator	624,063	May 2	204	45	87	742
Maxwell, Albert H., Council Bluffs, Iowa, and G. C. Dimock, Newman Grove, Nebr. Draft-equalizer	621,837	Mar. 28	2414	539	86	2009
Maxwell, Edwin F., West Bridgewater, Mass. Sole-edge trimmer	625,115	May 16	2133	484	87	1152
Maxwell, Fred V. (See Kettron and Maxwell.)						
Maxwell, Henry E. (See Knaffl, Charles, assignor.)						
Maxwell, James M., Pittsburg, Pa. Water-tube boiler	634,303	Oct. 3	627	152 153	89	126
Maxwell, James R., Hyde Park, Ohio. Roofer's tool	630,387	Aug. 8	1264	276	88	985
Maxwell, Samuel N., Grove, Ind. Ter. Wagon-body raiser	627,004	June 13	1481	324	87	1920
Maxwell Wyeth & Company. (See Carlson, Charles O., assignor.)						
May, Adam J., assignor to F. Ritter, Rochester, N. Y. Dental chair	623,026	Apr. 11	1518	351	87	310
May, Bernard H. (See May, Martin and B. H.)						
May, Eduard, Vienna, Austria-Hungary. Preservative compound	626,435	June 6	406	------	87	1692
May, Horace G., *et al.* (See Campbell, George L., assignor.)						
May, Joseph B., Lexington, Ky. Mail-bag	632,842	Sept. 12	1208	276	88	1963
May, Josiah H. S., Belfast, Ireland. Adjustable easy-chair or lounge	639,076	Dec. 12	1618	371 372	89	2201
May, Martin and B. H., Chicago, Ill. Baby-carriage	638,972	Dec. 12	1447	330	89	2169
May, Richard R., San José, Cal. Electric alarm system	636,910	Nov. 14	1307	280	89	1212
May, Victor, assignor to A. F. Bauer, Chicago, Ill. Curette	626,625	June 6	718	166	87	1754
May, William D., *et al.* (See Mather, Henry W., assignor.)						
May, William E., assignor to Ellis May Vacuum Steel Syndicate, Limited, London, England. Apparatus for casting metals	633,326	Sept. 19	2146	502 503	88	2156
May, William H., Otwell, Ind. Kitchen-cabinet	621,533	Mar. 21	1845	409 410	86	1883
May, William R., *et al.* (See Sprague, Abraham L., assignor.)						
Maybell, Mary. (See Maybell, Stephen and M.)						
Maybell, Stephen and M., San Francisco, Cal. Instantaneous printing-plate holder	628,250	July 4	552	132	88	108
Maybery, Herchel L. (See Abernathy, Henry J., assignor.)						
Mayer, Abraham, St. Louis, Mo. Clasp	633,697	Sept. 26	2832	659	88	2303
Mayer, Gabriel. (See Smalstig, Frederick C., assignor.)						
Mayer, Jacob F., Philadelphia, Pa. Adjustable stool	619,596	Feb. 14	1440	332	86	1109
Mayer, Louis, Mankato, Minn. Adjusting device for clothes-reels	619,047	Feb. 7	474	99	86	902
Mayer, Louis, Mankato, Minn. Cushion-coupling for trip-hammers	619,048	Feb. 7	476	99	86	903
Mayer, Louis G., Cincinnati, Ohio. Thill-coupling	626,548	June 6	600	138	87	1730
Mayer, Louis G., Cincinnati, Ohio, assignor to James & Mayer Buggy Company, Lawreuceburg, Ind. Fifth-wheel	626,184	May 30	4156	946	87	1582
Mayer, Otto F., Berlin, Germany. Type-writing machine	634,988	Oct. 17	1857	441	89	402
Mayer, Rudolph, Munich, Germany. Educational device	618,114	Jan. 24	2400	535	86	520
Mayer, Sigmund, Cincinnati, Ohio, and S. H. Altland, Indianapolis, Ind. Hat-conformator	638,023	Nov. 28	3805	800	89	1777
Mayer's Sons, Joseph. (See Northrop, Egbert H., assignor.)						
Mayer, Theodore J. (See Corby, William S. and C. I., assignors.) (Reissue.)						
Mayes, Wilbur, Omaha, Nebr. Danger-signal system	634,118	Oct. 3	248	62,63	89	53
Mayfield, Thomas H., Roby, Tex. Buggy-top support	620,340	Feb. 28	2821	643	86	1413
Mayhall, John O. (See Case and Mayhall.)						
Mayhew, Ralph S., New York, N. Y. Puzzle	627,127	June 20	1693	371	87	1980
Maynadier, James E., Taunton, Mass., assignor to Union Carpet Lining Company, Portland, Me. Tool-feed mechanism	632,732	Sept. 12	1001	233	88	1919
Maynadier, William M., Baltimore, Md. Box for phonograph-records	638,734	Dec. 12	1046	234	89	2090
Maynard, Cecil, and E. Frederick, Campbellford, Canada. Cycle propelling mechanism	633,204	Sept. 19	1886	444 445	88	2105
Maynard, Edward and G., assignors to J. J. Grundy, London, England. Railway signaling apparatus	623,090	Apr. 11	1625	374	87	331
Maynard, Fred B., Somerville, Mass. Broom-moistener	630,086	Aug. 1	684	147	88	858
Maynard, Frederick T., assignor to Detroit Lawn Mower Company, Detroit, Mich. Lawn-mower	623,121	Apr. 11	1711	395	87	346
Maynard, George. (See Maynard, Edward and G.)						
Maynard, Medrique R. (See Lemay, Stanislas P., assignor.)						
Maynard, Wilbur N., Leominster, Mass. Grinding attachment for lawn-mowers	627,863	June 27	3067	670	87	2269

Alphabetical list of patentees—Continued.

Name, residence, and invention.	No.	Date.	Monthly volume. Spec.	Monthly volume. Dr'g.	Official Gazette. Vol.	Official Gazette. Page.
Maynard, William C. (See Sell and Maynard.)						
Mayo, Benjamin F., Salem, assignor, by mesne assignments, to McKay Shoe Machinery Company, Boston, Mass. Heel-trimming machine. (Reissue)	11,770	Sept. 5	910	212 213	88	1890
Mayo, Frederick D. (See Grandmaison, Joseph, assignor.)						
Mayo, Louis A., Clifton Hill, Mo. Adjustable book-support	641,357	Mar. 21	1527	339	86	1823
Mayo, Robert P. (See Linch, Frank S., assignor.)						
Mayo, Robert P., Paris, Tex. Wire-fence support	636,542	Nov. 7	549	121	89	1032
Mayo, Samuel P., *et al.* (See Hysore. Alphenas V., assignor.)						
Mayo, Walter E., Chicago, Ill. Combined shipping-package and lantern	639,422	Dec. 19	2287	529	89	2349
Mayo, William. (See Jones and Mayo.)						
Mayo, William, assignor to E. R. Andrews, Rochester, N. Y. Photographic finder	624,359	May 2	754	169	87	844
Mayotte, Philis, assignor of one-half to S. B. Rathfon, Escanaba, Mich. Knockdown barrel	622,058	Mar. 28	2825	636	86	2089
Mayr, Walter A., Chicago, Ill. Curtain-stretcher bar	617,813	Jan. 17	1831	408	86	396
Maytag, Theodore H., Laurel, Iowa. Window-shade exhibitor and protector	616,950	Jan. 3	165	37	86	33
Mazel, Irénée, Toulouse, France. Shaving apparatus	620,474	Feb. 28	3031	693	86	1453
McAdams, William A., New York, N. Y. Casting aluminium alloys	634,904	Oct. 17	1703	------	89	371
McAdams, William A., New York, N. Y. Casting aluminium alloys	635,053	Oct. 17	1973	------	89	426
McAdams, William A., New York, N. Y. Casting aluminium alloys	635,054	Oct. 17	1973	------	89	426
McAdams, William A., New York, N. Y. Casting aluminium alloys. (Reissue)	11,788	Nov. 14	1932	------	89	1331
McAdams, William A., New York, N. Y. Casting aluminium alloys. (Reissue)	11,789	Nov. 14	1933	------	89	1331
McAdams, William A., New York, N. Y. Casting aluminium alloys. (Reissue)	11,790	Nov. 14	1933	------	89	1331
McAdams, William A., New York, N. Y. Aluminium alloy	639,600	Dec. 19	2600	------	89	2413
McAdoo, Samuel, Toronto, Ohio. Pipe-turner	620,165	Feb. 28	2503	569	86	1353
McAfoos, Laurence R., Allegheny, Pa. Street-car construction	637,403	Nov. 21	2288	492	89	1418
McAlexander, Joseph C., and B. H. Thomas, Charlottesville, Va. Lubricating-plug	628,019	July 4	111	23	88	23
McAllister, Albert V. (See McAllister, James A. and A. V.)						
McAllister, James, and H. E. Barlow, Providence, R. I. Automatic water-return apparatus	623,554	Apr. 25	2501	575	87	537
McAllister, James A. and A. V., Manistique, Mich. Apparatus for operating wells	639,601	Dec. 19	2601	597	89	2413
McAllister, Wallace B., Philadelphia, Pa. Chair	637,968	Nov. 28	3687	775	89	1754
McAlpine, Robert, Marinette, Wis. Means for forming hollow ware of pulp	623,808	Apr. 25	2971	679 680	87	627
McAlpine, Lemuel B., assignor to Climax Road Machine Company, Marathon, N. Y. Road machine or scraper	637,644	Nov. 21	3085	637 638	89	1614
McAnelly, Moses F., and E. F. Williams, Grain Valley, Mo. Automobile vehicle	620,166	Feb. 28	2504	569 570	86	1354
McAneny, Michael, Denver, Colo., assignor to G. R. Davis, Chicago, Ill. Coin-delivery device	620,954	Mar. 14	776	170	86	1665
McAneny, Michael, Denver, Colo., assignor to G. R. Davis, Chicago, Ill. Change-maker	621,124	Mar. 14	1107	241 242	86	1727
McAneny, Michael, Denver, Colo., assignor to G. R. Davis, Chicago, Ill. Coin-delivering device	621,125	Mar. 14	1112	242 243	86	1728
McAnulty, John F., and P. Van den Berghe; said McAnulty assignor, by mesne assignments, of one-half to M. S. Ley, Philadelphia, Pa. Back-pedaling brake	633,605	Sept. 26	2667	622	88	2269
McArdle, John. (See Jarrell, Edwin, assignor.)						
McArthur, Andrew J., Gainesville, Fla. Refrigerator-car	618,281	Jan. 24	2714	603	86	578
McArthur, Donald. (See Walsh and McArthur.)						
McArthur, J. H. (See Kraushaar, George J., assignor.)						
McAulay, Norman, assignor of one-half to C. von Woehrmann, Hill City, S. D. Quartz-mill	626,079	May 30	3932	893	87	1540
McAusland, William, assignor to Reed & Barton Corporation, Tauton, Mass. Tea-kettle, &c	638,641	Dec. 5	855	186	89	2031
McBean, Archibald N., West Hoboken, N. J. Window-frame	639,268	Dec. 19	1979	456	89	2287
McBerty, Frank R., Downer's Grove, assignor to Western Electric Company, Chicago, Ill. Signal for telephone trunk-lines	636,275	Nov. 7	90	21	89	940
McBerty, Frank R., Downer's Grove, assignor to Western Electric Company, Chicago, Ill. Signal for telephone trunk-lines	636,276	Nov. 7	93	21	89	941
McBerty, Frank R., Downer's Grove, assignor to Western Electric Company, Chicago, Ill. Apparatus for interoffice trunk-lines	636,277	Nov. 7	96	21	89	941
McBride, Albert P., Independence, Kans. Gas, oil, and water separator	637,148	Nov. 14	1783	382	89	1303
McBride, James, Greenfield, Iowa. Heating apparatus	618,711	Jan. 31	3518	785	86	747
McBride, John H., Topeka, Kans. Copy-holder	627,132	June 20	1700	373	87	1982
McBride, Thomas J., Brimley, Mich. Car-coupling	618,121	Jan. 24	2416	539	86	522
McBride, Thomas J., assignor to Massey-Harris Company, Limited, Toronto, Canada. Harvesting-machine	627,871	June 27	3083	674	87	2271
McBride, Thomas J., Toronto, Canada, assignor to Massey-Harris Company, Limited. Heading attachment for harvesters and binders	627,872	June 27	3083	675	87	2271
McCabe, Charles B., and L. Goughenour, Braddock, Pa. Portable elevator	636,445	Nov. 7	360	82	89	994
McCabe, James B., Buffalo, N. Y. Apparatus for separating sulfur from ores	635,574	Oct. 24	2990	686	89	637
McCabe, James H., assignor to P. H. Bierman and J. McCabe, St. Louis, Mo. Vehicle running-gear	630,256	Aug. 1	967	212	88	913
McCabe, Johanna, *et al.* (See McCabe, James H., assignor.)						
McCabe, Peter I., Hartford, Conn. Reversible envelop	636,415	Nov. 7	312	71	89	984
McCabe, William L., Tacoma, Wash. Portable conveyer	635,177	Oct. 17	2218	517	89	473
McCadden, George, St. Cloud, Minn. Label-affixer	623,330	Apr. 18	2102	482	87	439
McCaffrey, Peter F., assignor to Union Burner Company and H. Purinton, Pittsburg, and E. E. Frederick, Allegheny, Pa. Heater	637,887	Nov. 28	3547	743	89	1728
McCahey, John, assignor to New England Butt Company, Providence, R. I. Spool-carrier for braiding and winding machines	632,318	Sept. 5	201	46	88	1747
McCain, John A., Auburn, Ga. Singletree	631,026	Aug. 15	2432	551	88	1235
McCall, Thomas D., Minneapolis, Minn. Bicycle-frame	629,585	July 25	3048	711	88	649
McCall, Wiley E., Jasper, Fla. Spool-thread cabinet	618,712	Jan. 31	3520	786	86	747
McCall, William, assignor to McCall's Sliding Hinge Window Company, San Francisco, Cal. Slidable hinged window	618,608	Jan. 31	3330	740	86	710
McCallip, William W. (See Brown, Carl E., assignor.)						
McCall's Sliding Hinge Window Company. (See McCall, William, assignor.)						
McCallum, Colin. (See Maitland and McCallum.)						
McCally, Charles A. (See Overton and McCally.)						
McCalment, Jesse W., and W. E. Williams, Unionville, Mo. Feed-gage	618,897	Feb. 7	136	30	86	831
McCann, John A., Quincy, Ill. Safety rail-brace	626,080	May 30	3934	893	87	1541
McCann, John F., Toronto, Canada. Machine for cutting and planting potatoes	631,027	Aug. 15	2433	551	88	1235
McCargo, Grant. (See Fessenden, Reginald A., assignor.)						
McCarroll, Charles T., Ottumwa, Iowa. Hot-blast stove	631,049	Aug. 15	2472	560	88	1243
McCart, Samuel J., Appleton, Wis. Automatic block-signal and train-stopping device	638,026	Nov. 28	3818	802 803	89	1780
McCarter, Charles W., Reading, Pa. Musician's wire-cutting device	626,334	June 6	214	52	87	1654

Alphabetical list of patentees—Continued.

Name, residence, and invention.	No.	Date.	Monthly volume.		Official Gazette.	
			Spec.	Dr'g.	Vol.	Page.
McCarter, John G., Boston, and T. Hansen, Everett, Mass. Seam-rubbing and welt-protecting machine	622,252	Apr. 4	91	21	87	21
McCarter, Milton, Bowers, Ind. Hair-trimming device	628,722	July 11	1462	340	88	305
McCarthy, Ed., *et al.* (See Griffin, Thomas J., assignor.)						
McCarthy, James, Chicago Heights, assignor to Q & C Company, Chicago, Ill. Automatic saw-grinding machine	630,551	Aug. 8	1587	354	88	1045
McCarthy, James H. S. (See Cashion, Edward M., assignor.)						
McCarthy, James J. (See Luttrell, James W., assignor.)						
McCarthy, Michael, Boston, Mass. Letter-carrier's bag	633,884	Sept. 26	3146	730	88	2366
McCarthy, Richard, Central Falls, R. I. Ring spinning and twisting machine	625,273	May 16	2406	545	87	1203
McCartney, James, Oakland, Cal. Water-heater	624,070	May 2	226	47	87	745
McCartney, James, Oakland, Cal. Gas-burning heater	624,071	May 2	228	48	87	745
McCarty, Frank, Martin's Ferry, Ohio. Bottle or jar stopper	633,468	Sept. 19	2389	562	88	2203
McCarty, Frank, Martin's Ferry, Ohio. Jar-closure means	633,469	Sept. 19	2391	562	88	2203
McCarty, Frank, Martin's Ferry, Ohio, assignor of one-third to P. Beaumont, Wheeling, W. Va. Bottle or jar stopper	620,663	Mar. 7	227	47	86	1546
McCarty, Lewis C., Bernie, Mo. Cradle	618,946	Feb. 7	274	58	86	863
McCarty, Norman, New York, N. Y., and G. D. Claflin, Jr., assignors to American Rail Joint and Manufacturing Company, Cleveland, Ohio. Rail-joint for railways	636,278	Nov. 7	98	22	89	942
McCaslin, Elton W., assignor to Morgan & Wright, Chicago, Ill. Valve for inflation	637,011	Nov. 14	1512	325	89	1252
McCaughey, David W., Chicago, Ill. Electric burglar-alarm system	621,361	Mar. 21	1532	341	86	1824
McCauley, Patrick, Braddock, Pa. Sash-lock	636,729	Nov. 7	912	202	89	1109
McCauley, Thomas H., Port Arthur, Canada. Pole-straightener	634,905	Oct. 17	1704	402, 403	89	371
McCausland, George W., Pittsburg, Pa. Coat and hat rack	624,848	May 9	1658	375	87	1045
McCay, William S. (See Gardner, Levi S., assignor.)						
McChesney, George R., New York, N. Y. Sash-fastener	631,964	Aug. 29	4131	930	88	1596
McChesney, Robert P. (See Finin, John F., assignor.)						
McClain, Eli, Maynard, Ark. Voting-machine	637,275	Nov. 21	2027	435	89	1365
McClain, John C. (See Kray, John A., assignor.)						
McClarren, William S., Redlands, Cal. Draft appliance for plows	622,818	Apr. 11	1138	263	87	235
McClatchey, Edgar, Leamington, Canada. Fruit-drier	639,755	Dec. 26	2902	669	89	2490
McClatchey, Lydia, Leamington, Canada. Making flour from pumpkins, &c	617,423	Jan. 10	1093	------	86	232
McClaughry, Daniel W., Fox Lake, Wis. Corner-shield for wagon-boxes	628,834	July 11	1667	389	88	346
McClave, William, Scranton, Pa. Furnace and mechanical stoker therefor	622,515	Apr. 4	584	136, 137, 138	87	110
McClave, William, Scranton, Pa. Furnace and mechanical stoker therefor	622,516	Apr. 4	591	138, 139	87	111
McClave, William, Scranton, Pa. Furnace	622,517	Apr. 4	595	139, 140, 141, 142	87	112
McClave, William, Scranton, Pa. Furnace	622,518	Apr. 4	603	142	87	114
McClave, William, Scranton, Pa. Furnace	622,519	Apr. 4	604	142, 143	87	114
McClave, William, Scranton, Pa. Furnace	630,916	Aug. 15	2217	505, 506	88	1193
McClave, William, Scranton, Pa. Furnace	631,901	Aug. 29	4017	899, 900	88	1575
McClean, Samuel N., Washington, Iowa. Cartridge-belt	629,908	Aug. 1	299	68	88	778
McClelland, Thomas, *et al.* (See Miller, James, assignor.)						
McClimont, John J., Union, N. J. Water-cycle	620,795	Mar. 7	477	99	86	1595
McClintock, Frank, Colorado Springs, Colo., assignor to Empire Type Setting Machine Company, of West Virginia. Machine for justifying type	635,866	Oct. 31	3550	817, 818	89	759
McClintock, George W., Wollaston, assignor of one-third to C. G. Lee, Quincy, Mass. Electric railway	640,146	Dec. 26	3605	828, 829	89	2632
McCloskey, Henry G., Galena, Ill. Case or cover for heads of tooth-brushes	634,906	Oct. 17	1705	403	89	371
McCloskey, William, Essex, assignor of one-half to J. R. Dixon, Maidstone, Canada. Machine for wrapping stay-wires around line-wires	624,072	May 2	229	48	87	745
McCloskey, William, assignor to McCloskey Wire Fence Company, Limited, Windsor, Canada. Device for making wire fences	630,465	Aug. 8	1431	320	88	1015
McCloskey Wire Fence Company. (See McCloskey, William, assignor.)						
McCloud, Smith N., assignor to Davis Chair Company, Marysville, Ohio. Chair	622,062	Mar. 28	2830	638	86	2090
McCloud, Smith N., assignor to Davis Chair Company, Marysville, Ohio. Adjustable head-rest for chairs	623,414	Apr. 18	2252	516	87	470
McClung, M. G., *et al.* (See Crozier, Thomas W., assignor.)						
McClure, Richard C. (See Borne and McClure.)						
McCluskey, John P., St. Louis, Mo. Page-indicator for books	623,415	Apr. 18	2253	516	87	470
McCollouch, Thomas J. (See Ash and McCollouch.)						
McCollum, Alfred E., assignor of one-half to J. H. Stiner, West Leisenring, Pa. Engine	617,762	Jan. 17	1713	385	86	372
McCollum, G. Albert, *et al.* (See Conwell, La Fayette, assignor.)						
McCollum, James H. K., Toronto, Canada. Air-valve	621,841	Mar. 28	2421	541	86	2011
McCollum, James H. K., Toronto, Canada. Air-valve	623,029	Apr. 11	1522	352	87	310
McCollum, James H. K., Toronto, Canada. Steam-turbine	638,260	Dec. 5	108	25	89	1887
McComb, Harry, *et al.* (See Sigler, Isaac G., assignor.)						
McCombs, Cornelius D., and T. J. Parkinson, Pittsburg, Pa. Rein-hold adjuster	619,982	Feb. 21	2177	495	86	1276
McConn, James W., *et al.* (See Godfrey, Hosea M., assignor.)						
McConnaughay, William M., Fresno, Cal., assignor to California Seeding Machine Company, of California. Raisin-seeder	639,756	Dec. 26	2903	669, 670	89	2490
McConnell, Fleming, assignor of two-thirds to O. K. Marquis, Florence, Pa. Hog-ringer	637,149	Nov. 14	1785	383	89	1303
McConnell, John S., Argo, Iowa. Support for folding carriage-tops	621,615	Mar. 21	1982	442	86	1910
McConnell, Louis Y., assignor to J. E. Durand and C. R. Barber, Rochester, N. Y. Voting apparatus	622,520	Apr. 4	607	143, 144	87	115
McConnell, W. Howard, *et al.* (See Stimpson, William H., assignor.)						
McConnell, William C., *et al.* (See Rigney, James J., assignor.)						
McConville, Emmett, Pittsburg, Pa. Steam-engine	628,953	July 18	1887	438	88	404
McConville, Emmett, Pittsburg, Pa. Printing attachment for roll-paper holders	631,028	Aug. 15	2434	552	88	1235
McConville, Emmett, Pittsburg, Pa. Steam-boiler	638,397	Dec. 5	405	85	89	1943
McConway & Torley Company. (See Thomas, Walter B., assignor.)						
McCool, Daniel, assignor to Lithosite Manufacturing Company, St. Louis, Mo. Railway rolling-stock	635,799	Oct. 31	3418	787, 788	89	734
McCool, William A., Beaver Falls, Pa. Conduit-tubing	638,261	Dec. 5	109	25	89	1887
McCord, Alvin C., Chicago, Ill. Spring-cushion	629,109	July 18	2173	505	88	461
McCord, Alvin C., Chicago, Ill. Spring-cushion	629,110	July 18	2176	505	88	462

Alphabetical list of patentees—Continued.

Name, residence, and invention.	No.	Date.	Monthly volume.		Official Gazette.	
			Spec.	Dr'g.	Vol.	Page.
McCord, Alvin C., assignor, by mesne assignments, to McCord & Company, Chicago, Ill. Car-axle box and lid. (Reissue)	11,716	Feb. 7	876	193	86	984
McCord & Company. (See McCord, Alvin C., assignor.)						
McCord, Luther A., Laurens, S. C. Hat, coat, and umbrella rack	626,335	June 6	215	52	87	1654
McCord, Luther A., Laurens, S. C., assignor to J. T. Roddy, New York, N. Y. Securing device for bicycles or other articles	638,353	Dec. 5	317	66	89	1927
McCord, Luther A., assignor of two-thirds to J. D. Adams and G. F. Young, Laurens, S. C. Hat, coat, and umbrella hook	631,937	Aug. 29	4085	916	88	1587
McCormac, Glee E., and S. J. Lapthorne, assignors to J. L. Zeidler, St. Joseph, Mo. Arc-lamp hanger	635,699	Oct. 24	3207	739	89	681
McCormack, Samuel C., St. Louis, Mo. Prismatic sidewalk-light	640,012	Dec. 26	3362	770	89	2582
McCormick, Andrew. (See O'Neill, Richard J., assignor.)						
McCormick Harvesting Machine Company. (See Johnston, Edward A., assignor.)						
McCormick Harvesting Machine Company. (See Peck, Albert S., assignor.)						
McCormick Harvesting Machine Company. (See Pridmore, Henry E., assignor.)						
McCormick Harvesting Machine Company. (See Pridmore, John W., assignor.)						
McCormick, John B., Jr., assignor to York Manufacturing Company, York, Pa. Manufacture of turbine wheels	621,270	Mar. 14	1360	302	86	1778
McCormick, John H., New Orleans, La. Cotton-seed delinter	636,164	Oct. 31	4143	950	89	878
McCormick, John J., San Francisco, Cal. Elevator	621,475	Mar. 21	1737	387	86	1862
McCormick, Lewis, Highwood, Mont. Non-refillable bottle	639,086	Dec. 12	1641	380	89	2205
McCormick, Michael A. (See Conway, Jesse, assignor.)						
McCormick, William D., Philadelphia, assignor of one-fourth to C. Dunn, Lock Haven, Pa. Bicycle parcel-carrier	629,111	July 18	2179	505	88	462
McCormick, William E., Chicago, Ill., assignor to American Bell Telephone Company, Boston, Mass. Electrical switchboard-signal	621,126	Mar. 14	1118	243	86	1730
McCormick, William H., New Westminster, Canada. Driving-gear	633,470	Sept. 19	2393	562	88	2203
McCormick, William H., Kansas City, Kans., assignor of one-half to W. D. Myers, Kansas City, Mo. Churn	629,806	Aug. 1	79	20	88	736
McCowan, William C., Lancaster, Ohio. Wrench	625,457	May 23	2737	623	87	1292
McCoy, Alonzo B., assignor of one-half to J. J. Ryan, Burlington, N. J. Cementing apparatus	626,185	May 30	4157	946	87	1582
McCoy, Elijah, assignor to Detroit Sheet Metal and Brass Works, Detroit, Mich. Lubricator	627,623	June 27	2645	581	87	2186
McCoy, Franklin E. (See Montgomery, George W., assignor.)						
McCoy, John F. (See Rasnick, Noah W., assignor.)						
McCoy, Richard G. (See Lackey, James T., assignor.)						
McCoy, Thomas J., Kane, Pa. Glass-rolling machine	635,340	Oct. 24	2504	582	89	543
McCoy, William A. (See Beever and McCoy.)						
McCrady, Charles H. (See Beacock, George, assignor.)						
McCrae, Sophia, New York, N. Y. Umbrella-carrying device	631,172	Aug. 15	2690	608	88	1285
McCrary, Pierce R., Atlanta, Ga. Absorber for refrigerating-machines	633,143	Sept. 19	1782	419	88	2084
McCray, Henry L., *et al.* (See Barrow, Thomas E., assignor.)						
McCray, Louis J., *et al.* (See Barrow, Thomas E., assignor.)						
McCreery, Joseph, Toledo, Ohio. Air cleansing and cooling device	626,388	June 6	334	77	87	1678
McCreery, Joseph, Toledo, Ohio. Railway car and train ventilation	626,389	June 6	335	77	87	1678
McCreery, Joseph, Toledo, Ohio. Air cooling and cleansing device	626,390	June 6	337	78	87	1679
McCreery, Joseph, Toledo, Ohio. Pipe-coupling	631,376	Aug. 22	3061	693	88	1376
McCreery, Joseph, Toledo, Ohio. Air cleansing and cooling device	631,377	Aug. 22	3062	693	88	1377
McCreery, Joseph, Toledo, Ohio. Railway car or train ventilation	631,902	Aug. 29	4022	901	88	1575
McCreery, Joseph, Toledo, Ohio. Railway car or train ventilation	632,469	Sept. 5	470	107	88	1800
McCreery, King and V., Toledo, Ohio. Expansion-bolt	623,809	Apr. 25	2974	681	87	628
McCreery, King and V., Toledo, Ohio. Pasting apparatus for wall-paper hanging	632,059	Aug. 29	4316	970	88	1632
McCreery, Vance. (See McCreery, King and V.)						
McCrory, John A., assignor of one-half to J. A. Bone, Orange, Tex. Hose-coupling	623,416	Apr. 18	2254	516	87	470
McCulloch, James, Portreath, England. Rock-drill	621,271	Mar. 14	1362	302, 303	86	1778
McCulloch, James, Portreath, England. Steam-actuated valve for pumps	629,386	July 25	2668	621, 622	88	575
McCullough, John L., New York, N. Y. Target gallery and appliance	626,500	June 6	526	121	87	1716
McCullough, John L., New York, N. Y. Magazine target-gun	626,501	June 6	527	121, 122	87	1716
McCully, J. C. (See Shumate, David L., assignor.)						
McCune, David B., Plain Grove, Pa. Wrench	620,485	Feb. 28	3048	697	86	1456
McCune, James F., assignor of three-fourths to E. F. Harris, G. W. Powell, and H. E. Frazier, Indianapolis, Ind. Timber lock-joint	637,212	Nov. 14	1913	410	89	1327
McCune, Jasper N., and J. Davis, Camp Verde, Ariz. Ter. Plow	625,694	May 23	3133	712	87	1371
McCune, Michael, Parsons, Kans. Locomotive-engineer's foot-warmer	632,877	Sept. 12	1290	296	88	1976
McCusker, Samuel F., St. Louis de Gonzague, Canada. Winter-road machine for clearing snow	621,935	Mar. 28	2601	587	86	2045
McCutchan, John J. (See Pettee and McCutchan.)						
McCutcheon, John B., assignor to Advance Thresher Company, Battle Creek, Mich. Oscillating straw-stacker	618,947	Feb. 7	275	58, 59	86	863
McCutcheon, William J., Pittsburg, Pa. Electric incandescent tube	623,730	Apr. 25	2797	639	87	592
McDade, William, Straight, Pa. Photographic-printing frame	628,347	July 4	752	174	88	145
McDaniel, James, Minneapolis, Minn. Grain-drier	622,521	Apr. 4	613	144	87	116
McDaniel, James A., Sloanville, Tenn. Wire fence	617,596	Jan. 10	1397	317	86	291
McDaniel, Mark, *et al.* (See Gulland, Charles, assignor.) (Reissue.)						
McDanield, John. (See Skimin and McDanield.)						
McDaniels, Francis B., Owatonna, Minn. Straw-rack for threshing-machines	617,116	Jan. 3	492	118	86	97
McDermott, Henry, Lowell, Mass. Coiler-head of carding-engines	631,319	Aug. 22	2963	670	88	1358
McDermott, James J., and J. E. Bennett, New York, N. Y. Safety connection for gas-fixtures	634,537	Oct. 10	1062	254	89	230
McDill, James B., South Pasadena, Cal. Movable irrigating-flume	617,991	Jan. 17	2149	479	86	458
McDonald, Ambrose S., Marion, Wis. Potato digger and sorter	622,970	Apr. 11	1413	325	87	289
McDonald, Charles W., assignor of one-half to G. and F. Aid, Gallatin, Mo. Neck-yoke center	637,150	Nov. 14	1786	383	89	1303
McDonald, Edward, Chicago, Ill. Picture-frame	623,253	Apr. 18	1958	447	87	410
McDonald, Hallock R., assignor of one-half to G. R. Byers, Ravenna, Ohio. Harness	630,394	Aug. 8	1276	279	88	987
McDonald, Henry T. (See Brownell, Alexander C., assignor.)						
McDonald, Herbert A., and S. Norton, Detroit, Mich. Folding-basket attachment for bicycles	617,117	Jan. 3	495	118, 119	86	97
McDonald, Howard C., Buffalo, N. Y. Towel-rack	629,458	July 25	2797	650	88	601
McDonald, John F. (See Mealey, Johnston, assignor.)						
McDonald, John J., Crab Orchard, Nebr. Corn-husker	633,211	Sept. 19	1906	448	88	2110
McDonald, John S., New Orleans, La. Rod-packing	628,835	July 11	1668	389	88	346

Alphabetical list of patentees—Continued.

Name, residence, and invention.	No.	Date.	Monthly volume.		Official Gazette.	
			Spec.	Dr'g.	Vol.	Page.
McDonald, John S., New Orleans, La. Pipe-coupling	639,198	Dec. 12	1855	427	89	2247
McDonald, John T., Geneva, N. Y. Twine-cutter	622,063	Mar. 28	2831	638	86	2090
McDonald, Patrick F., Scranton, assignor of one-half to J. B. Garvey, Dunmore, Pa. Double miter-box and calculator	630,257	Aug. 1	968	213	88	913
McDonald, Thomas. (See Veilgaard and McDonald.)						
McDonald, Thomas H., Potomac, Mont. Fumigator	634,990	Oct. 17	1860	442	89	403
McDonald, William T. B., Granby, Canada. Umbrella-repairing device	629,168	July 18	2277	528	88	480
McDondland, George T., New York, N. Y. Packing	622,899	Apr. 11	1294	298	87	264
McDonnell, Alex R., Littleton, Me. Bail-fastener for buckets, tubs, &c	628,020	July 4	112	23	88	23
McDonnell, Goodwin W. (See McDonnell, John and G. W.)						
McDonnell, John and G. W., Elma, Iowa. Bicycle	627,199	June 20	1807	396	87	2003
McDonnell, John M., *et al.* (See Crum, Edward A., assignor.)						
McDonold, Donald, Louisville, Ky. Pipe-joint	627,673	June 27	2730	598	87	2202
McDonough, Frank, Eau Claire, Wis. Feed-works for resawing-machines	633,028	Sept. 12	1530	356, 357, 358	88	2023
McDonough, John J. (See Gallager, Henry, assignor.)						
McDonough, John T., *et al.* (See McGovern, Edward, assignor.)						
McDonough, Patrick, Dover, N. H. Artist's canvas-holder	634,064	Oct. 3	135	35	89	31
McDonough, William. (See Miller and McDonough.)						
McDougall, Alexander, Duluth, Minn. Dredging apparatus	619,601	Feb. 14	1451	334	86	1111
McDougall, Hugh, New York, N. Y. Type-writing machine	638,027	Nov. 28	3819	803	89	1780
McDougall, James, Buffalo, and J. Perrie, Depew, N. Y. Dust-valve for air-brakes	622,522	Apr. 4	616	144	87	117
McDougall, John W., Napier, New Zealand. Pneumatic tire	625,052	May 16	2014	453	87	1131
McDougall, William M., East Orange, N. J. Electric vehicle	627,133	June 20	1701	373	87	1982
McDougall, William M., East Orange, N. J. Secondary battery	627,134	June 20	1702	373	87	1982
McDowell, Alexander, Lynn, Mass. Heel-trimming machine	617,038	Jan. 3	338	80	86	66
McDowell, Charles H. (See Manns and McDowell.)						
McDowell, Gerald R., *et al.* (See Lindstrom, Edward, assignor.)						
McDowell, John G., Pittsburg, Pa. Tie for brickwork	620,349	Feb. 28	2833	646	86	1416
McDowell, Malcolm, assignor, by mesne assignments, to Fort Dearborn Iron Company, Chicago, Ill. Rotary hearth and welding furnace	639,757	Dec. 26	2907	670	89	2491
McDowell, Thomas, and J. Bengough, assignors to Carter-Crume Company, Niagara Falls, N. Y. Paper-folding apparatus	630,626	Aug. 8	1729	387, 388	88	1072
McEachern, Hugh A., Valdosta, Ga. Barrel-closure	637,151	Nov. 14	1788	383	89	1304
McEachron, George, Brampton, assignor of one-half to E. J. Rabideau, Forsyth, Mich. Non-refillable bottle	631,258	Aug. 15	2846	642	88	1317
McElfatrick, Samuel, Princeton, Ky. Railway-tie	626,081	May 30	3935	894	87	1541
McElroy, Eliza A. (See Brown, Alfred, assignor.)						
McElroy, George E., Elmira, N. Y. Back-pedaling brake	622,523	Apr. 4	617	145	87	117
McElroy, James F., assignor to Consolidated Car-Heating Company, Albany, N. Y. Car-heating system	630,627	Aug. 8	1731	388	88	1072
McElroy, James F., assignor to Consolidated Car Heating Company, Albany, N. Y. Thermostatic trap	634,538	Oct. 10	1064	254	89	230
McElroy, James H., *et al.* (See Grunow, William, Jr., assignor.)						
McElroy, John H., Rossville, Ill. Type-writing machine	619,777	Feb. 21	1812	415, 416	86	1207
McElroy, Joseph A., *et al.* (See Grunow, William, Jr., assignor.)						
McElroy, Samuel, New York, N. Y. Automatic valve	621,362	Mar. 21	1536	341	86	1825
McElvaney, Charles T., Denison, Tex. Ballast-scraper	631,654	Aug. 22	3572	805	88	1479
McElwaine-Richards Company. (See Williams, Lee H., assignor.)						
McEntee, William H. (See Frauenfelder and McEntee.)						
McEvoy, Charles H., Lowell, Mass. Electrical connecting-cord	627,519	June 27	2432	535	87	2143
McEwan, Arthur. (See McEwan, William W., A., and F.)						
McEwan, Frank. (See McEwan, William W., A., and F.)						
McEwan, Thomas, Jr. (See Cook, Albert J., assignor.)						
McEwan, William W., A., and F., assignors to Stony Brook Paper Company, Whippany, N. J. Apparatus for manufacturing fibrous articles from pulp	635,800	Oct. 31	3419	788	89	735
McEwen, John, New York, N. Y. Machine for molding popcorn	635,055	Oct. 17	1974	467	89	426
McEwen, John, deceased; L. B. McEwen, New York, N. Y., administratrix. Clamp for ropes.	631,938	Aug. 29	4087	917	88	1587
McEwen, Letitia B., administratrix. (See McEwen, John.)						
McFadden, William H. (See Smyser, Louis B., assignor.)						
McFadden, William H. (See Tracy, James F., assignor.)						
McFarland, Charles W., Chandler, Okla. Ter. Combined cultivator and planter	629,807	Aug. 1	81	20	88	736
McFarland, Edwin C., Melrose, Mass., assignor to American Type Founders' Company, New York, N. Y. Type-mold	630,917	Aug. 15	2220	506	88	1193
McFarland, Robert W., Paulton, Pa. Wick raising or lowering attachment for burners.	634,762	Oct. 10	1456	343	89	306
McFeaters, George H., Johnstown, Pa., assignor, by mesne assignments, to Lorain Steel Company, of Ohio. Circuit-closer for electric railways	618,179	Jan. 24	2547	563	86	546
McFetridge, George A., Allentown, Pa., assignor to Star Incubator and Brooder Company, Bound Brook, N. J. Incubator	620,486	Feb. 28	3049	697, 698	86	1457
McFetridge, George A., assignor to Star Incubator and Brooder Company, Bound Brook, N. J. Incubator	620,487	Feb. 28	3052	698	86	1457
McGahie, Frederick H., Farmingdale, N. J., assignor, by mesne assignments, to E. I. Du Pont de Nemours & Company, Wilmington, Del. Powder-grain	622,777	Apr. 11	1065	247, 248	87	222
McGann, George, assignor to Commercial Telegraph Company, St. Louis, Mo. Electric burglar-alarm	637,012	Nov. 14	1513	326	89	1252
McGarvey, Edward, Bellefonte, Pa., assignor of one-half to G. C. Linn, Cleveland, Ohio. Weight and pressure indicator	633,471	Sept. 19	2394	563	88	2203
McGarvey, Edward, assignor of one-half to G. C. Linn, Bellefonte, Pa. Weight and pressure recording apparatus	636,685	Nov. 7	821	182, 183	89	1089
McGaughey, Sylvester, Randville, Mich. Baby-carriage	639,425	Dec. 19	2293	530	89	2350
McGee, George S., Bryant, Ala. Fire-escape	627,347	June 20	2092	462	87	2061
McGee, James A. (See Graham, McGee, and Stark.)						
McGee, Lewis M. (See West and McGee.)						
McGee, William G., Anderson, S. C. Umbrella	634,018	Oct. 3	65	18	89	17
McGenniss, David, assignor of one-half to O. C. Burt, Easthampton, Mass. Puzzle	639,602	Dec. 19	2602	598	89	2413
McGeorge, Harold. (See Adams and McGeorge.)						
McGhee, Nicholas B., assignor of one-half to M. Lash, Orange, Cal. Dental forceps	632,847	Sept. 12	1210	277	88	1963
McGhee, S. H., *et al.* (See Johnson, Henry P., assignor.)						
McGhie, Layton J., Wilkes-Barré, Pa. Coin-operated cigar-vender	627,702	June 27	2781	609	87	2211
McGillivray, William, Gonzales, Tex. Cotton-chopper	632,470	Sept. 5	471	107, 108	88	1800
McGinley, James, Kingston, Pa. Automatic oiler	638,980	Dec. 12	1467	336	89	2173
McGinnis, Francis A., Detroit, Mich. Tooth-brush	637,522	Nov. 21	2491	540	89	1457
McGinnis, Henry. La Salle, Ill. Display-cabinet for window-shades	634,472	Oct. 10	946	225	89	206
McGinty, Bernard, Doylestown, Pa. Tympan-gage	618,713	Jan. 31	3522	786	86	748
McGlamery, Elihu D., Waynesborough, Tenn. Swing	623,254	Apr. 18	1959	447, 448	87	411

Alphabetical list of patentees—Continued.

Name, residence, and invention.	No.	Date.	Monthly volume. Spec.	Monthly volume. Dr'g.	Official Gazette. Vol.	Official Gazette. Page.
McGlashan, Charles F., Truckee, Cal. Snow-shed construction	620,244	Feb. 28	2645	603	86	1379
McGlashan, Charles F., Truckee, Cal. Catapult for throwing projectiles	629,044	July 18	2043	476, 477	88	435
McGlaughlin, George T., Parker's Landing, Pa. Knockdown crate	620,607	Mar. 7	102	20	86	1522
McGloin, Frank. (See Buchel and McGloin.)						
McGlone, Daniel, New York, N. Y. Attaching-plug for flexible-wire connections	631,173	Aug. 15	2691	608	88	1285
McGonegal, Zora, Summit, Mich. Straw-elevator	619,983	Feb. 21	2178	496	86	1277
McGovern, Bernard, Norwalk, Conn. Automatic tire-setting machine	621,272	Mar. 14	1363	303, 304	86	1779
McGovern, Edward, assignor of one-third to J. T. McDonough and M. J. Mansion, Albany, N. Y. Boiler-tube fastening	624,367	May 2	762	171	87	846
McGowan, Mary K., New York, N. Y. Fire-escape	631,174	Aug. 15	2692	609	88	1285
McGrail, John F., assignor to Winchester Repeating Arms Company, New Haven, Conn. Bullet-greasing machine	620,350	Feb. 28	2834	646, 647	86	1416
McGrann, Berhard J. (See Rote, Charles V., assignor.)						
McGraw, Albert P., McGraw, N. Y. Garment-stiffener	637,995	Nov. 28	3742	786	89	1766
McGregor, John A., assignor to Morse Twist Drill and Machine Company, New Bedford, Mass. Machine for tapering cylindrical blanks	620,955	Mar. 14	779	170, 171	86	1666
McGregor & McCord Manufacturing Company. (See Manes, Ephraim, assignor.)						
McGrew, Edward. (See Humphreys and McGrew.)						
McGrory, Henry A., Detroit, Mich. Straightway valve	629,086	July 18	2128	495	88	452
McGuire, Elwood W., Richmond, Ind. Adjustable ball-bearing device	632,878	Sept. 12	1291	296	88	1976
McGuire, Elwood W., Richmond, Ind. Roller-bearing for lawn-mowers	638,262	Dec. 5	111	26	89	1887
McGuire, John F., and A. H. Harris, assignors of one-third to C. C. Goodrich, Akron, Ohio. Knife or shears sharpener	628,021	July 4	112	23	88	23
McGuire Manufacturing Company. (See Hubbard, Moses G., Jr., assignor.)						
McGuire Manufacturing Company. (See McGuire and Hubbard, assignors.)						
McGuire, William A., Chicago, Ill. Car-door bracket	618,282	Jan. 24	2716	603	86	578
McGuire, William A., Chicago, Ill. Grain-car door	621,842	Mar. 28	2423	541	86	2012
McGuire, William A., Chicago, and M. G. Hubbard, Jr., Austin, assignors to McGuire Manufacturing Company, Chicago, Ill. Truck for motor-cars	628,954	July 18	1888	438	88	404
McGurn, William V., Syracuse, N. Y. Eyeglasses	619,085	Feb. 7	542	114	86	916
McGurty, James H., Jersey City, N. J. Automatic rheostat	630,466	Aug. 8	1433	321	88	1016
McHatton, Samuel M., Salem, Ill. Nose-screen	628,111	July 4	296	70	88	59
McHenry, Philip J., and W. T. Norton, Washington, D. C., assignors to J. Neubergcr, New York, N. Y. Refrigerator	630,258	Aug. 1	971	213	88	914
McHenry, Samuel B., Chicago, Ill. Vehicle-hub	637,645	Nov. 21	3087	638	89	1614
McHenry, William B., Grafton, W. Va. Drying-kiln	629,202	July 18	2332	541	88	490
McHugh, Elmer, Lambertville, N. J. Vehicle-hub	635,575	Oct. 24	2991	686	89	637
McHugh, James A., New York, N. Y. Tobacco-pouch	626,714	June 13	911	206	87	1809
McHugh, James M., Boston, Pa. Mining-machine	623,924	Apr. 25	3190	734, 735	87	669
McHugh, Timothy J., Cambridge, assignor of one-half to W. H. Gallison, Boston, Mass. Ball-cock	617,597	Jan. 10	1398	317	86	291
McHugh, Timothy J., assignor of one-half to W. H. Gallison, Boston, Mass. Water-closet flushing-valve	618,609	Jan. 31	3331	740	86	710
McHugh, William H., Chicago, Ill. Table	638,060	Nov. 28	3862	812	89	1789
McIlhiney, Parker C., assignor to Tiffany Glass and Decorating Company, New York, N. Y. Ornamenting metals	628,348	July 4	753	174	88	145
McInnerney, Benjamin, assignor to McInnerney Manufacturing Company, Omaha, Nebr. Electric generator for gas-engine igniters	638,933	Dec. 12	1384	316	89	2156
McInnerney Manufacturing Company. (See McInnerney, Benjamin, assignor.)						
McIntire, Jacob N., New York, N. Y., assignor to J. Buck, Hoboken, N. J. Bowling-alley	622,653	Apr. 4	855	196	87	162
McIntire, Jacob N., and S. L. Holden, assignors to S. C. Olsen, New York, N. Y. Bowling-alley	630,728	Aug. 8	1883	426	88	1102
McIntosh, Craig, Maiden, N. C. Cotton-elevator	628,485	July 11	1001	233	88	213
McIntosh, Jacob M. (See Stroh and McIntosh.)						
McIntosh, John C., Graymont, assignor of one-half to A. Meierhofer, Minonk, Ill. Apparatus for loading grain-cars	634,122	Oct. 3	257	64, 65	89	54
McIntosh, Peter E., New York, N. Y. Frame for prism-lights	635,576	Oct. 24	2992	686	89	637
McIntosh, Robert Y., *et al.* (See Billetop, Torben C., assignor.)						
McIntosh, Thomas M., assignor of one-third to H. S. Brown, Hastings, Nebr. Grain-hoisting bucket	638,877	Dec. 12	1283	292	89	2136
McIntosh, William, Winona, Minn. Blow-off cock and boiler-check	630,067	Aug. 1	653	141	88	852
McIntosh, William, Muskegon, Mich. Washing-machine	634,991	Oct. 17	1861	442	89	403
McIntyre, Donald L. M., assignor of one-half to J. J. Thompson, New York, N. Y. Hook and eye	628,604	July 11	1219	286	88	256
McIntyre, Dugald S., Flint, Mich. Telescoping dressing-case	629,012	July 18	1990	463	88	424
McIntyre, Frank, New York, N. Y., assignor to Eagle Pencil Company, of New York. Box or case	629,586	July 25	3050	711	88	649
McIntyre, Frederick T. (See Sage and McIntyre.)						
McIntyre, John, Jersey City, N. J., and E. Baltzley, Glen Echo, Md.; said Baltzley assignor to said McIntyre. Reciprocating car-engine	617,470	Jan. 10	1165	266	86	245
McIntyre, John A., Denver, Colo. Portable asphalt plant	620,555	Feb. 28	3196	732, 733	86	1485
McKaig, Archibald, Buffalo, assignor to McKaig-Dorntge Drop Forging Company, Ebenezer, N. Y. Wrench	629,045	July 18	2047	477	88	436
McKaig-Dorntge Drop Forging Company. (See McKaig, Archibald, assignor.)						
McKam, Lawrance G., Toronto, Canada, assignor of three-fourths to B. Roof, Minden, and J. H. Flynn, Syracuse, N. Y. Heating attachment for gas-burners	626,243	June 6	47	11	87	1624
McKanna, Amos, Emporia, Kans. Train-order holder and signal	619,778	Feb. 21	1818	416	86	1209
McKay, Alfred E. (See O'Brien and McKay.)						
McKay, Donald J., San Francisco, Cal. Shipping and delivery can	625,053	May 16	2015	454	87	1131
McKay, Neil. (See Gibbon and McKay.)						
McKay Shoe Machinery Company. (See Buffum, Herbert H., assignor.)						
McKay Shoe Machinery Company. (See Fogg, Charles H., assignor.)						
McKay Shoe Machinery Company. (See Harrigan, Michael T., assignor.)						
McKay Shoe Machinery Company. (See Heys, John J., assignor.)						
McKay Shoe Machinery Company. (See Mayo, Benjamin F., assignor.) (Reissue.)						
McKay Shoe Machinery Company. (See Raymond, Freeborn F., 2d, assignor.)						
McKay Shoe Machinery Company. (See Small, Chester C., assignor.)						
McKechnie, Archibald. (See Black, William D., assignor.)						
McKee & Brothers. (See Carle and Blaze, assignors.)						
McKee, Emmett M. (See Mossgrove, Ross, Jr., assignor.)						
McKee & Harrington. (See De Rango, Louis, assignor.) (Reissue.)						
McKee, John A., assignor to himself and D. D. Williams, Philadelphia, Pa. Frame for bicycles, &c	628,723	July 11	1464	340	88	305

Alphabetical list of patentees—Continued.

Name, residence, and invention.	No.	Date.	Monthly volume. Spec.	Monthly volume. Dr'g.	Official Gazette. Vol.	Official Gazette. Page.
McKee, Louis H., Trenton, N. J. Desk	618,180	Jan. 24	2549	563, 564	86	547
McKee, Louis H., Trenton, N. J. Back or seat for chairs, &c	618,181	Jan. 24	2552	564	86	547
McKee, William E., Springfield, Mass. Necktie	623,378	Apr. 18	2183	501	87	455
McKee, William F., New York, N. Y. Spring-hinge	634,854	Oct. 10	1621	379	89	338
McKeen, Thomas L., assignor to Acme Railway Equipment Company, Easton, Pa. Car-coupling	629,587	July 25	3050	711	88	649
McKeen, Thomas L., Easton, Pa., assignor to Acme Railway and Equipment Company, of New Jersey. Draw-head for railway-cars	640,147	Dec. 26	3606	829	89	2633
McKeen, Thomas L., Easton, Pa., assignor to Acme Railway and Equipment Company, of New Jersey. Railway-car construction	640,148	Dec. 26	3607	829, 830	89	2633
McKeen, William R., Jr. (See Park, Baxter, and McKeen.)						
McKeever, George F., Allegheny, Pa. Envelop-opener	627,758	June 27	2880	630	87	2234
McKeighan, Robert, Hawthorn, assignor of one-half to A. B. Taylor, Chicago, Ill. Cipher-writer	625,188	May 16	2248	511	87	1174
McKellops, Henry L., San Francisco, Cal. Dental pliers	638,468	Dec. 5	546	113	89	1971
McKelvey, Samuel P., assignor of one-half to O. G. Hursen, Chicago, Ill. Concrete-mixer	634,416	Oct. 3	839	202	89	168
McKelvey, William W., assignor to William B. Pollock Company, Youngstown, Ohio. Water-tube boiler	630,259	Aug. 1	972	213, 214	88	914
McKelvy, Wilbur R. (See Porter and McKelvy.)						
McKelvy, William E. (See Sykes, George W., assignor.)						
McKenna, Alexander G., Wilkinsburg, Pa., assignor, by mesne assignments, to Firth-Sterling Steel Company, Pittsburg, Pa. Chrome-iron compound and making same	637,013	Nov. 14	1516	------	89	1253
McKenna, David, assignor of one-half to M. E. Brennan, Waterbury, Conn. Oratory	618,182	Jan. 24	2553	564	86	548
McKenna, Edward W., assignor to McKenna Steel Working Company, Milwaukee, Wis. Process of and machine for renewing steel rails	635,577	Oct. 24	2993	687	89	638
McKenna, Patrick J. (See Samuis, Lewis W., assignor.)						
McKenna Steel Working Company. (See Lentz, David H., assignor.)						
McKenna Steel Working Company. (See Lentz and Shaw, assignors.)						
McKenna Steel Working Company. (See McKenna, Edward W., assignor.)						
McKenna Steel Working Company. (See Shaw, Henry C., assignor.)						
McKenney, Charles A. (See Curtis, Andrew J., assignor.)						
McKenney, Frank B., Weston, W. Va. Churn	629,588	July 25	3051	711	88	649
McKenzie, Alexander A. (See Kimball and McKenzie.)						
McKenzie, Angus, assignor to Fenton Metallic Manufacturing Company, Jamestown, N. Y. Combination-lock	635,968	Oct. 31	3738	864, 865	89	795
McKenzie, Angus, assignor to Fenton Metallic Manufacturing Company, Jamestown, N. Y. Combination-lock	635,969	Oct. 31	3743	865	89	796
McKenzie, Angus, assignor to Fenton Metallic Manufacturing Company, Jamestown, N. Y. Combination-lock	635,970	Oct. 31	3746	865	89	796
McKenzie, George A., and C. W. Hough, West Bay City, Mich. Stove or furnace	638,934	Dec. 12	1385	316	89	2157
McKenzie, Henry S., London, England. Construction of cartridge-holders	621,425	Mar. 21	1632	362	86	1843
McKenzie, James J. (See Conklin, William D., assignor.)						
McKenzie, James S., Miami, Fla. Dust-guard for railway-cars	634,473	Oct. 10	948	225	89	207
McKenzie, James S., Birmingham, Ala. Dust and cinder guard for railway-coaches	639,426	Dec. 19	2294	530	89	2350
McKenzie, John, and W. S. Linsner, Buffalo, N. Y. Display-stand	624,368	May 2	764	172	87	847
McKenzie, Peter, *et al.* (See Amiotte, Adelard, assignor.)						
McKeown, James P., near Johannesburg, South African Republic. Tappet-setter	638,642	Dec. 5	856	186	89	2031
McKernan, John H., assignor of one-half to A. E. Hewitt, Chicago, Ill. Sash-balance	625,054	May 16	2016	454	87	1132
McKesson & Robbins. (See Schaefer, George L., assignor.)						
McKiernan, Bernard, Stockton, Cal. Weighing-scoop	636,920	Nov. 14	1338	287	89	1217
McKim, David R., Denver, Colo. Soap-lock	639,199	Dec. 12	1856	427	89	2247
McKim, James A., Indianapolis, Ind. Fireproof building	619,430	Feb. 14	1181	267	86	1059
McKinnon, Michael J., Portland, Oreg. Dumping-car	622,382	Apr. 4	312	72	87	60
McKinnon, Thomas, and J. Pringle, Glasgow, Scotland; said Pringle assignor to said McKinnon. Wheel-tire	634,954	Oct. 17	1782	423	89	386
McKinster, Ira F. J., Grayson, Ky. Mail-bag catcher	625,790	May 30	3333	757	87	1428
McKinstry, Frank Y. (See Whittlesey and McKinstry.)						
McKnight, George, Toronto, Canada. Garment-supporter	639,112	July 18	2180	505	88	463
McKone, William, Neepawa, Canada. Traction-wheel	639,758	Dec. 26	2909	671	89	2492
McKown, William M., Louisville, Ky. Bicycle-pump	619,602	Feb. 14	1453	334	86	1111
McLachlan, John, Denver, Colo. Stone-cutting machine	619,208	Feb. 7	778	169	86	964
McLain, Louis R., St. Augustine, Fla. Apparatus for mining, transporting, washing, and drying pebble phosphate	630,395	Aug. 8	1277	279, 280	88	988
McLane, George A., New York, N. Y. Packing-case	622,819	Apr. 11	1140	263	87	236
McLane, George A., New York, N. Y. Ironing device	626,391	June 6	338	78	87	1679
McLane, George A., New York, N. Y. Ironing device	626,792	June 13	1055	237	87	1838
McLane, George A., New York, N. Y. Apparatus for turning irregular forms	628,486	July 11	1002	234	88	213
McLane, George A., New York, N. Y. Device for cleaning the hulls of ships	630,260	Aug. 1	973	214	88	915
McLane, George A., New York, N. Y. Barnacle-scraper	630,261	Aug. 1	974	214	88	915
McLane, Helen M. (See Phillips, John F., assignor.)						
McLane, Labazure O., Linesville, Pa. Acetylene-gas generator	626,437	June 6	412	98	87	1693
McLaren, Hugh, Toronto, Canada, assignor to J. W. Ivory, Philadelphia, Pa. Automatic dental plugger	619,832	Feb. 21	1909	436	86	1226
McLarty, Charles A., and G. W., assignors of one-half to T. F. Ryder, New York, N. Y. Billiard-cue-chalk holder	639,427	Dec. 19	2295	530	89	2350
McLarty, Farquhar M., Greenock, Scotland. Apparatus for cutting stone	633,974	Sept. 26	3302	769	88	2397
McLarty, George W. (See McLarty, Charles A., and G. W.)						
McLaughlin, Alfred C., assignor of one-half to R. L. McLaughlin, Paterson, N. J. Facing for garments	619,984	Feb 21	2179	496	86	1277
McLaughlin, Alfred C., assignor of one-half to R. L. McLaughlin, Paterson, N. J. Facing for garments	633,144	Sept. 19	1783	420	88	2084
McLaughlin, Charles E., and E. H. Williams, Kanawha City, W. Va. Combination article for household use	626,553	June 6	607	140	87	1732
McLaughlin, Cunningham N., Winona, Minn. Corn-sheller	628,955	July 18	1891	439	88	405
McLaughlin, George T. (See Hammond, Robert A., assignor.)						
McLaughlin, James A., Jesup, Ga. Lubricator	638,061	Nov. 28	3863	812	89	1789
McLaughlin, John F., Portsmouth, Ohio, assignor to O. A. Miller, Brockton, Mass. Last	636,055	Oct. 31	3913	898	89	832
McLaughlin, Milton P., assignor of one-half to J. Hunnewell, Somerville, Mass. Lock-nut	632,422	Sept. 5	381	87	88	1781
McLaughlin, Robert L. (See McLaughlin, Alfred C., assignor.)						
McLaurin, William W., assignor to Smith & McLaurin, Limited, Milliken Park, Scotland. Substitute for leather and preparing same	632,195	Aug. 29	4584	------	88	1685
McLauthlin, Martin B., Malden, Mass. Elevator-controlling apparatus	621,970	Mar. 28	2679	603, 604	86	2060
McLean, Allan, Ingalls, Okla. Ter. Attachment for plows	629,965	Aug. 1	446	95	88	811

Alphabetical list of patentees—Continued.

Name, residence, and invention.	No.	Date.	Monthly volume.		Official Gazette.	
			Spec.	Drg.	Vol.	Page.
McLean, Charles C. (See Fowble, Otis E., assignor.)						
McLean, Charles C., *et al.* (See Donaldson, Fred H., assignor.)						
McLean, Charles H. (See Simmons, Orrin E., assignor.)						
McLean, Donald W., Canterbury, New Zealand. Spool-holder	637,276	Nov. 21	2030	435	89	1365
McLean, John, New York, N. Y. Passenger-elevator	620,245	Feb. 28	2647	603	86	1379
McLean, Robert B., assignor of two-thirds to L. Kress and J. Hamilton, Pittsburg, Pa. Nut-lock	620,167	Feb. 28	2507	570	86	1354
McLean, Thomas N., Elizabeth, N. J. Obturator	635,801	Oct. 31	3421	788	89	735
McLean, William B., Pittsburg, Pa. Table-leg-clamping device	626,554	June 6	608	140	87	1732
McLellan, Frederick A., Fort Worth, Tex. Grain-scourer	638,743	Dec. 12	1056	237	89	2092
McLellan, John M., *et al.* (See De Wallace, Harry, assignor.)						
McLellan, Robert K. (See Durand, Beck, and McLellan.)						
McLellan, William G., Anaconda, Mont. Reversible corrugated gage-cutter	633,472	Sept. 19	2396	563	88	2204
McLeod, Clement H. (See Withycombe, Frederick H., assignor.)						
McLeod, George W., Tacoma, assignor to Northern Light Wood Gas Machine Company, Pierce county, Wash. Retort for making wood-gas	627,737	June 27	2843	623	87	2225
McLeod, Nelson W., assignor to A. W. Standing, St. Louis, Mo. Paper-holder	627,437	June 20	2285	503	87	2099
McLeod, Norman, Mattoon, Ill. Valve	617,118	Jan. 3	497	119	86	98
McLernon, John, Pottsville, Pa. Spectacles	624,369	May 2	766	172	87	847
McLister, John C., *et al.* (See McQuiston, David P., assignor.)						
McLoughlin, Henry, Leavenworth, Kans Floor-surfacing machine	629,203	July 18	2334	{541 542}	88	490
McMahon, Frank. (See Hogan and McMahon.)						
McMahon, James B., *et al.* (See Harris, William L., assignor.)						
McMahon, Martin, Milford, Mass. Boot or shoe	628,836	July 11	1669	389	88	346
McManus, John M., assignor of one-third to C. E. Gibbs, Decatur, Ga. Singletree	634,992	Oct. 17	1863	442	89	403
McManus, William, *et al.* (See Murphy, David, assignor.)						
McManus, William A., West Orange, N. J. Leather-drying apparatus	626,921	June 13	1330	{292 293}	87	1889
McMechen, Jessie L., *et al.* (See Westwood, John T., assignor.)						
McMenamin, Peter P., Jersey City, N. J. Change-maker	632,138	Aug. 29	4471	1006	88	1664
McMerrick, George B., Carthage, Mo. Hoisting-hook	620,351	Feb. 28	2837	647	86	1416
McMichael, William, Woonsocket, R. I. Spinning-machine	633,964	Sept. 26	3283	765	88	2393
McMichael, William, assignor of one-third to L. B. Sweatt, Woonsocket, R. I. Loom	638,935	Dec. 12	1388	317	89	2157
McMillan, Archie B., New York, N. Y. Electric muscular exercising apparatus	629,909	Aug. 1	304	68	88	779
McMillan, Frank. (See Roebuck and McMillan.)						
McMillan, Frank, and A. C. Roebuck, Chicago, Ill. Kinetoscopic apparatus	628,413	July 4	862	203	88	135
McMillan, Gilbert N., assignor to Detroit Sheet Metal and Brass Works, Detroit, Mich. Lubricator	627,624	June 27	2648	581	87	2187
McMillan, John G., San José, Cal. Bridge and wharf floor construction	617,471	Jan. 10	1169	267	86	247
McMillan, William R., Salem, Mo. Lock	629,808	Aug. 1	83	21	88	736
McMillin, Edward A., North Adams, Mass. Paper box	639,269	Dec. 19	1981	457	89	2287
McMullen, Charles M., Rock Glen, N. Y. Scraper	622,524	Apr. 4	619	145	87	117
McMullen, David S., Evanston, Ill., assignor to American Steel and Wire Company, of Illinois. Gate	618,714	Jan. 31	3524	786	86	748
McMunn, Samuel W., trustee. (See Billings, Oscar L., assignor.)						
McMurry, Charles W. (See Dart and McMurry.)						
McNair, Robert H., and W. A. Elsah, assignors to G. W. Herdman and S. L. Hill, Jerseyville, Ill. Thill-coupling	629,013	July 18	1991	463	88	425
McNair, Thomas B., *et al.* (See Gram, Ernst W., assignor.)						
McNair, William A. (See McNair, Robert H. and W. A.)						
McNamara, John R., Norwich, Conn. Toy	628,670	July 11	1380	323	88	286
McNamee, George, *et al.* (See Branson, Joseph, assignor.)						
McNaughton, Charles A., Sprague's Mill, Me. Running-gear for vehicles	634,993	Oct. 17	1864	442	89	404
McNaughton, James, Dunkirk, N. Y. Nut-lock	621,843	Mar. 28	2424	541	86	2012
McNaul, Katharine W., Maitland, Mo. Fruit-steamer	620,488	Feb. 28	3053	698	86	1457
McNear, George W. (See Quinsler and McNear.)						
McNeil, David P. (See Mowatt, John F., assignor.)						
McNeill, James A., Mount Vernon, N. Y. Rack	638,263	Dec. 5	112	26	89	1887
McNeill, Joseph J., Cleveland, Ohio. Device for manipulating ingots, billets, &c.	639,270	Dec. 19	1983	457	89	2288
McNish, Thomas T., Allegheny, Pa. Sealing bottles	633,885	Sept. 26	3147	731	88	2366
McNutt, John F., Warren, assignor to Harris Automatic Press Company, Niles, Ohio. Feeder for printing-presses	617,404	Jan. 10	1051	{239 240}	86	224
McOsker, Daniel J., and O. F. Garvey, Providence, assignors of one-third to G. E. Palmer, Cranston, R. I. Safety-cock for gas or liquids	623,331	Apr. 18	2104	483	87	440
McPhee, Eugene. (See Powell, Allen W., assignor.)						
McPhee, William. (See Luckenbach, Harry, assignor.)						
McPherson, Arthur G., and E. M. Laing, Highland Park, Ill. Rotary engine	622,704	Apr. 11	950	219	87	200
McPherson, Charles C. (See Teal and McPherson.)						
McPherson, Eli. (See Braun and McPherson.)						
McPherson, Eli, assignor of one-fourth to F. J. Schellman, Allegheny, Pa. Window shade and curtain holder	624,236	May 2	544	116	87	803
McQuarrie, Allen, *et al.* (See Conwell, La Fayette, assignor.)						
McQuarrie, James L., assignor to Western Electric Company, Chicago, Ill. Appliance for telephone-switchboards	638,418	Dec. 5	446	92	89	1950
McQueen, Finlay R., Superior, Wis., assignor to Barnett & Record Company, Minneapolis, Minn. Device for use in erecting bents of ore-docks	625,791	May 30	3334	757	87	1428
McQueen, Frank O., Scottsburg, Ind. Acetylene-gas generator	619,833	Feb. 21	1911	436	86	1226
McQueen, Frank O., Scottsburg, Ind. Acetylene-gas generator	639,929	Dec. 26	3212	736	89	2552
McQueen, James W., Detroit, Mich., assignor of one-half to H. Wigle, Ruthven, Canada. Press	630,918	Aug. 15	2222	{506 507}	88	1193
McQueen, Ulysses G., Elizabeth, N. J. Stop-bead adjuster	629,699	July 25	3241	754	88	686
McQuistion, Charles F. L., Butler, Pa. Automatic siphon	624,370	May 2	767	172	87	847
McQuiston, David P., assignor of two-thirds to J. C. McLister, J. A. McQuiston, J. Wilson, and A. Morrison, Idaville, Tenn. Sash-fastener	638,264	Dec. 5	113	26	89	1888
McQuiston, James A., *et al.* (See McQuiston, David P., assignor.)						
McQuoid, William, Jr., Greenock, Scotland. Apparatus for raising or lowering ships' boats	623,810	Apr. 25	2976	681	87	628
McRorie, William H., Burlington Flats, N. Y. Ironing-table	618,715	Jan. 31	3525	787	86	748
McSherry, Charles, Pittsburg, Pa. Metal window sash and frame	631,529	Aug. 22	3344	{760 761}	88	1433
McSpadden, John L., and J. Railton, Detour, Mich. Stovepipe-damper	624,073	May 2	230	48, 49	87	746
McTaggart, David, Worcester, Mass. Winding-machine	631,876	Aug. 29	3983	891	88	1568
McTague, Harry P., *et al.* (See Prevost, Dwight F., assignor.)						
McTighe, Thomas J. (See Barnhart and Middleton, assignors.)						
McTighe, Thomas J., New York, N. Y. Manufacture of electric-railway rail-bonds	633,886	Sept. 26	3148	731	88	2367

Alphabetical list of patentees—Continued.

Name, residence, and invention.	No.	Date.	Monthly volume.		Official Gazette.	
			Spec.	Dr'g.	Vol.	Page.
McTighe, Thomas J., New York, N. Y. Electric-railway rail-bond	633,887	Sept. 26	3149	731	88	2367
McVeigh, Thomas, Danielson, Conn., assignor of one-half to Draper Company, Portland, Me., and Hopedale, Mass. Knot-tying device for spooling-machines	623,925	Apr. 25	3194	735	87	669
McWane, H. E. (See Wiley, Edgar C., assignor.)						
McWhirter, William H., Algoma, Miss. Spring spear-gun	635,386	Oct. 24	2626	606	89	567
McWilliams, Corneal J. (See Malloy, John C., assignor.)						
McWilliams, Curtis Q., *et al.* (See Rigney, James J., assignor.)						
McWilliams, John P. (See Copeland, Lucius D., assignor.)						
McWilliams, Robert A. (See Cole, Wilson T., assignor.)						
McCartea, Francis M., San Juan, Cal. Nut-lock	636,349	Nov. 7	204	45	89	962
Meacock, Owen J., and H. Penn, Birmingham, England. Sheep-shearing machine	625,405	May 23	2642	600	87	1275
Mead, Charles H., *et al.* (See De Vore, George E., assignor.)						
Mead, Edwin D., Phelps, N. Y. Grain and seed distributer	637,518	Nov. 21	2482	538	89	1455
Mead, Edwin R., Fort Scott, Kans. Baling-press	627,621	June 27	2642	580	87	2185
Mead, Ernest J., Totness, England. Voting-machine	618,705	Jan. 31	3506	783 784	86	744
Mead, Frank W. (See Boulard, Joseph, assignor.)						
Mead, George A. (See King and Mead.)						
Mead, John S., Mount Vernon, N. Y. Electric lamp	618,706	Jan. 31	3512	784	86	745
Mead, Theodore H., *et al.* (See Crowell, Luther C., assignor.)						
Mead, Theodore H., *et al.* (See Crowell and North, assignors.)						
Mead, Theodore H., *et al.* (See Jackson, Benjamin F., assignor.)						
Mead, Theodore H., *et al.* (See Houghtlin, Alfred, assignor.)						
Mead, Theodore H., *et al.* (See North, Thomas M., assignor.)						
Mead, Theodore H., *et al.* (See Read, George F., assignor.)						
Mead, Theodore H., *et al.* (See Rice, John M., assignor.)						
Mead, Theodore H., *et al.* (See Roesen, Oscar, assignor.)						
Mead, Theodore H., *et al.* (See Sheldon, Edward P., assignor.)						
Mead, Theodore H., *et al.* (See Spalckhaver, William, assignor.)						
Meade, Warren T., Binghamton, N. Y. Furniture-polish	633,022	Sept. 12	1521	------	88	2022
Meader, James C., Colfax, Iowa. Adjustable cuspidor	637,882	Nov. 28	3539	742	89	1726
Meadowcroft, Thomas E., London, England. Magazine-camera	635,497	Oct. 24	2853	651	89	611
Meadows, Charles A., Yonkers, N. Y. Scoring-rule	637,808	Nov. 28	3378	708	89	1692
Meagher, Edward F., Glendale, Ohio. Window-shade-cord tightener	635,106	Oct. 17	2090	491	89	449
Meaker, John W., Waukegan, Ill. Insulator for trolley-wire supports	632,733	Sept. 12	1002	233	88	1919
Meaker, John W., Jr., Waukegan, Ill. Negative-rack	632,876	Sept. 12	1289	296	88	1975
Mealey, Johnston, Howard Lake, assignor of one-half to J. F. McDonald, Minneapolis, Minn. Trace-fastening	621,838	Mar. 28	2415	540	86	2010
Mealey, Johnston, Howard Lake, assignor of one-half to J. F. McDonald, Minueapolis, Minn. Thill-coupling	623.091	Apr. 11	1627	375	87	331
Mealey, Johnston, Howard Lake, assignor of one-half to J. F. McDonald, Minneapolis, Minn. Checkrein hook or fastener	627,005	June 13	1482	325	87	1920
Mealey, Johnston, Howard Lake, assignor of one-half to J. F. McDonald, Minneapolis, Minn. Singletree-hook	628,276	July 4	611	144	88	118
Mealey, Johnston, Howard Lake, assignor of one-half to J. F. McDonald, Minneapolis, Minn. Overdraw-checkrein fastener	628,277	July 4	612	144	88	118
Mealey, Johnston, Howard Lake, assignor of one-half to J. F. McDonald, Minneapolis, Minn. Stove	628,342	July 4	747	172	88	143
Mears, Camden and F. W., New York, N. Y. Soft-tread horseshoe	627,515	June 27	2425	533	87	2142
Mears, Frank W. (See Mears, Camden and F. W.)						
Mears, Robert S., Topeka, Kans. Guard for water-gages	635,565	Oct. 24	2977	683	89	635
Meats, John T., assignor to Mason Machine Works, Taunton, Mass. Loom	623,092	Apr. 11	1628	375	87	332
Meats, John T., assignor to Mason Machine Works, Taunton, Mass. Lap drawing and doubling machine	630,813	Aug. 8	2033	459	88	1134
Mechanical Accountant Company. (See Turck, Joseph A., assignor.)						
Mechanical Door Hinge Check Company. (See Hanington, Charles F., assignor.)						
Mechanical Fabric Company. (See Mallalieu, Frank, assignor.)						
Medary, Paul, Cynwyd, Pa. Electrical switch	626,919	June 13	1327	292	87	1889
Medary, Paul, Cynwyd, assignor of one-half to V. A. Clarke, Philadelphia, Pa. Electrical switch	626,918	June 13	1325	292	87	1889
Medearis, W. R. (See O'Sullivan, Michael J., assignor.)						
Medrick, Erastus G., Middletown, N. Y. Antirattler shaft-coupling	620,341	Feb. 28	2822	643	86	1413
Mee, Charles, Sr., Rochester, N. Y. Bicycle-holder	620,714	Mar. 7	326	67	86	1565
Mee, Charles, Sr., Cortland, N. Y. Lamp-shelf bracket	633,874	Sept. 26	3129	726	88	2363
Meehan Boiler and Construction Company. (See Meehan, Patrick, assignor.)						
Meehan Boiler and Construction Company. (See Meehan and Gray, assignors.)						
Meehan, David C., Columbus, Ohio, assignor to Columbus Face Brick Company, of Ohio. Advertising sample-exhibitor	633,963	Sept. 26	3282	765	88	2393
Meehan, Patrick, assignor to Meehan Boiler and Construction Company, Lowellville, Ohio. Boiler	625,406	May 23	2643	600 601	87	1275
Meehan, Patrick, and R. Gray, assignors to Meehan Boiler and Construction Company, Lowellville, Ohio. Valve	635,051	Oct. 17	1969	466	89	425
Meeker, Henry C., Deshler, Ohio. Washing-machine	637,007	Nov. 14	1506	324	89	1251
Meeker Manufacturing Company. (See Meeker, William, assignor.)						
Meeker, Stephen J., Newark, N. J. Locomotive-tender coupling	622,775	Apr. 11	1063	246 247	87	221
Meeker, Stephen J., Newark, N. J. Car-coupling	635,498	Oct. 24	2855	652	89	612
Meeker, William, assignor to Meeker Manufacturing Company, Dayton, Ohio. Skate-wheel	518,890	Feb. 7	127	28	86	829
Meekins, Jeremiah C., Jr. (See Moore, Otho C., assignor.)						
Meeks, Jacob A., Muncie, Ind. Wood-bending machine	617,756	Jan. 17	1698	382	86	370
Meem, James C., New York, N. Y. Game	631,374	Aug. 22	3057	692	88	1376
Mees, Gustav, Wetzikon, Switzerland. Driving mechanism for motor-vehicles	634,827	Oct. 10	1560	367	89	326
Megaard, Henning O., Chicago, Ill. Electrical burglar-alarm system	627,006	June 13	1483	325	87	1920
Megown, John, Youngstown, Ohio. Car-fender	631,993	Aug. 29	4188	942	88	1606
Megquier, George H., Chicago, Ill. Blank-cabinet	631,257	Aug. 15	2844	642	88	1317
Mehan, Joseph. (See Patterson, Robert, assignor.)						
Mehlig, Charles F. C., New York, N. Y. Dental matrix-retainer	638,973	Dec. 12	1448	331	89	2169
Mehling, John A., assignor to Mehling Manufacturing Company, Cleveland, Ohio. Seal-lock	633,875	Sept. 26	3130	726	88	2363
Mehling Manufacturing Company. (See Mehling, John A., assignor.)						
Mehring, Charles, Charlottesville, Va. Car-coupling. (Reissue)	11,754	July 4	911	213	88	175
Mehring, William M., York Road, Md. Cow-milker	638,640	Dec. 5	853	185	89	2030
Meier, Adolph, Vienna, Austria-Hungary. Binder for pamphlets or the like	623,487	Apr. 18	2374	546	87	495
Meier, Adolph C., Sedalia, Mo. Push-button	635,172	Oct. 17	2210	515	89	471

Alphabetical list of patentees—Continued.

Name, residence, and invention.	No.	Date.	Monthly volume. Spec.	Monthly volume. Dr'g.	Official Gazette. Vol.	Official Gazette. Page.
Meier, Edward C. (See Meier, Edward D. and E. C.)						
Meier, Edward D., St. Louis, Mo., and E. C. Meier, Bala, Pa. Hand-hole plate	621,689	Mar. 21	2130	474, 475	86	1940
Meierhofer, Albert. (See McIntosh, John C., assignor.)						
Meigs, George W., assignor to Spencer Optical Manufacturing Company, Newark, N. J. Spectacles or eyeglasses	618,545	Jan. 31	3220	714	86	689
Meigs, John F., and R. P. Stout, assignors to Bethlehem Iron Company, South Bethlehem, Pa. Recoil mechanism for gun-mounts	632,134	Aug. 29	4462	1004	88	1662
Meinecke, Christian W. (See Catlett, Charles, assignor.)						
Meinecke, Heinrich and P., Breslau, Germany. Disk meter	620,791	Mar. 7	471	98	86	1593
Meinecke, Paul. (See Meinecke, Heinrich and P.)						
Meischner, Friedrich A., Chemnitz, Germany. Feed device for small work-pieces	617,990	Jan. 17	2148	479	86	457
Meischner, Friedrich A., Chemnitz, Germany. Mounting device for screw-taps	621,930	Mar. 28	2594	584, 585	86	2043
Meisel, Francis, Boston, Mass. Machine for cutting paper from webs into sheets. (Reissue)	11,750	June 13	1614	353	87	1945
Meisel, Francis, Boston, Mass. Offset mechanism for perfecting printing-machines	640,163	Dec. 26	3631	835	89	2638
Meisselbach, August F. (See Meisselbach, William, Jr., and A. F.)						
Meisselbach, William, Jr., and A. F., Newark, N. J. Bicycle-saddle	620,946	Mar. 14	760	167	86	1662
Meisselbach, William, Jr., and A. F., Newark, N. J. Binding for bicycle-saddle coverings	638,519	Dec. 5	630	131	89	1987
Meissuer, Adolf E. W., Charlottenburg, Germany, assignor to Siemens & Halske Electric Company of America, Chicago, Ill. Reciprocating drill	637,809	Nov. 28	3379	708	89	1692
Meissner, Charles L., Bartlett, Tex. Belt-tightener	621,474	Mar. 21	1735	387	86	1862
Meissner, Edward C., St. Louis, Mo. Pneumatic hammer	626,497	June 6	519	120	87	1714
Meissner, Edward C., St. Louis, Mo. Direct-acting engine	637,810	Nov. 28	3381	709	89	1693
Meissner, William O., Chicago, Ill. Annunciator-drop device	617,702	Jan. 10	1597	361	86	330
Meissner, William O., assignor to P. C. Burns, Chicago, Ill. Combined listening and ringing key for telephone-switchboards	623,611	Apr. 25	2607	595, 596	87	557
Meissner, William O., assignor to P. C. Burns, Chicago, Ill. Annunciator for telephone-switchboards	624,838	May 9	1641	371	87	1042
Meister, Charles, Philadelphia, Pa. Portable music-stand	634,533	Oct. 10	1053	250	89	228
Meistrell, Henry F., New York, N. Y., assignor to Mergenthaler Linotype Company, of New York. Ejector for linotype-machines	639,077	Dec. 12	1621	372, 373	89	2201
Melcher, Dennis, assignor to Monmouth Pottery Company, Monmouth, Ill. Water cooler and filter	633,698	Sept. 26	2835	659	88	2303
Melchers, Edward, Toledo, Ohio. Portable shower-yoke	638,348	Dec. 5	304	63	89	1924
Melick, James T., Rahway, N. J. Garment-fitter	633,654	Sept. 26	2747	639	88	2285
Melick, John W. (See Plass, Reuben H., assignor.)						
Melius, Reuben J., Bath-on-the-Hudson, N. Y. Elevator	635,499	Oct. 24	2856	652	89	612
Mellin, Carl J., Richmond, Va. Slide-valve	621,931	Mar. 28	2595	585	86	2043
Mellin, Carl J., assignor to Richmond Locomotive and Machine Works, Richmond, Va. Compound engine	624,360	May 2	755	170	87	844
Mellin, Carl J., assignor to Richmond Locomotive and Machine Works, Richmond, Va. Overpass-valve for locomotive-engines	624,667	May 9	1311	293	87	977
Mellin, Carl J., assignor to Richmond Locomotive and Machine Works, Richmond, Va. Locomotive-engine	630,619	Aug. 8	1712	384	88	1069
Mellin, Carl J., Richmond, Va., assignor to Richmond Locomotive and Machine Works. Exhaust-relief for locomotive-engines	635,696	Oct. 24	3203	738	89	680
Mellinger, Frank E., assignor to Computing Scale Company, Dayton, Ohio. Weighing-scale. (Reissue)	11,738	May 2	900	203	87	874
Mellmann, Heinrich. (See Arnold, William S., assignor.)						
Mellon, Edward F., McDonald, Pa. Bicycle-sunshade	620,342	Feb. 28	2823	644	86	1414
Mellon, Edward F., McDonald, Pa. Syringe-nozzle	631,899	Aug. 29	4015	899	88	1574
Mellon, Peter H., St. Louis, Mo. Folding metallic bed	631,651	Aug. 22	3567	804	88	1478
Mellon, Peter H., St. Louis, Mo. Folding bed	632,191	Aug. 29	4580	1031	88	1684
Mellor, Arthur, Macclesfield, England. Machinery for dressing silk, flax, &c	618,991	Feb. 7	381	80	86	884
Mellor, John E., New York, N. Y. Spring-hinge	631,805	Aug. 29	3865	862	88	1544
Mellott, Benjamin F., Woodruff, Mo. Trunk-strap	622,776	Apr. 11	1064	247	87	222
Melson, John T., assignor of three-fourths to C. G. and G. H. Otwell and O. Cordry, Laurel, Del. Coin-controlled blow-tester	633,464	Sept. 19	2384	561	88	2202
Melvin, Major T., Fall River, Mass. Shuttle-guard for looms	617,590	Jan. 10	1388	315	86	289
Melvin, William. (See Talks, Henry, assignor.)						
Melzer, Joseph, assignor of two-thirds to F. Haffner and M. Koch, Cleveland, Ohio. Combined electric-arc lamp and fan	623,801	Apr. 25	2958	676	87	625
Mendenhall, Albert, Oskaloosa, Iowa. Holder for driving-reins	637,811	Nov. 28	3386	709	89	1694
Mendenhall, Daniel W., Kansas City, Mo. Combined vehicle-propeller and power-transmitting machine	631,806	Aug. 29	3867	862, 863	88	1544
Mendenhall, Martha J., West Newton, Ind. Dish-washer	628,409	July 4	854	200	88	164
Mendenhall, Walter S., Norwood, Ohio. Temporary binder	620,159	Feb. 28	2496	567	86	1352
Mendenhall, Walter S., Norwood, assignor to Samuel C. Tatum Company, Cincinnati, Ohio. Temporary binder	620,160	Feb. 28	2497	568	86	1352
Mendenhall, Walter S., Norwood, assignor to Samuel C. Tatum Company, Cincinnati, Ohio. Paper-perforator	634,304	Oct. 3	628	153	89	126
Mendess, John, London, England. Detergent	618,208	Jan. 24	2591	------	86	555
Mendham, Conrad F., London, England. Machine for hermetically closing circular seams of sheet-metal cans	623,802	Apr. 25	2961	676, 677	87	625
Menefee, L. B., *et al.* (See Hosmer, Arthur, assignor.)						
Mengel, Jacob D. (See Hoffman, Jeremiah M., assignor.)						
Menges, Minnie A., *et al.*, administratrixes. (See Menges, William.)						
Menges, Susan C., *et al.*, administratrixes. (See Menges, William.)						
Menges, William, deceased, Montgomery, Pa.; S. C. and M. A. Menges, administratrixes. Portable fire-escape	632,226	Aug. 29	4627	1043	88	1693
Mengis, Morris C., New York, N. Y. Construction of forts or fortifications	620,161	Feb. 28	2499	568	86	1353
Mengis, Morris C., New York, N. Y. Mechanical depository	631,024	Aug. 15	2428	550, 551	88	1234
Mengis, Morris C., Baltimore, Md. Telephone toll apparatus	631,023	Aug. 15	2426	550	88	1233
Menier, Henri E., Paris, France. Governor for motor-engines	627,700	June 27	2778	608, 609	87	2211
Menke, Alexander, *et al.* (See Wolff, Herrmann, assignor.)						
Menkens, John H., assignor of one-fourth to L. G. Laureau, New York, N. Y. Aerial advertising device	635,697	Oct. 24	3204	738	89	680
Mensch, Charles F., *et al.* (See Brintnall, George P., assignor.)						
Mensch, Franklin P., Fort Wayne, Ind. Label-holder	616,951	Jan. 3	166	38	86	33
Mensch, Jacob L., *et al.* (See Brintnall, George P., assignor.)						
Mensching, Carl. (See Levinstein and Mensching.)						
Mentel, George A., Allegheny, Pa. Non-explosive oil-can	630,723	Aug. 8	1878	424	88	1101

Alphabetical list of patentees—Continued.

Name, residence, and invention.	No.	Date.	Monthly volume. Spec.	Monthly volume. Dr'g.	Official Gazette. Vol.	Official Gazette. Page.
Mentel, George E. (See Mentel, Simon N., M. A., and G. E.)						
Mentel, Mary A. (See Mentel, Simon N., M. A., and G. E.)						
Mentel, Simon N., M. A., and G. E., Springfield, Ohio; said M. A. Mentel assignor to said G. E. Mentel. Gas stove or heater	629,454	July 25	2791	649	88	600
Mentzer, George W., Elgin, Ill. Combined cellar-cupboard and dumb-waiter	628,828	July 11	1656	384	88	344
Menzel, Werner, Dusseldorf, Germany. Fixing of insulators for carrying electric-line wires	628,343	July 4	748	172	88	144
Menzenhauer, Frederick, Jersey City, N. J. Stringed musical instrument	633,876	Sept. 26	3131	727	88	2363
Menzenhauer, Frederick, Jersey City, N. J. Pick or plectrum	633,877	Sept. 26	3134	727	88	2364
Menzer, Frederick, Flint, Mich. Vehicle-body	630,724	Aug. 8	1879	424	88	1101
Menzer, Frederick, Flint, Mich. Vehicle-body	635,173	Oct. 17	2211	516	89	471
Menzer, Frederick, Flint, Mich. Vehicle	640,007	Dec. 26	3356	768	89	2581
Menzer, Frederick, assignor of three-fourths to C. C. Hyatt, H. W. Watson, and W. Wildanger, Flint, Mich. Vehicle-body	622,962	Apr. 11	1405	322	87	287
Méray-Horváth, Charles, Buda-Pesth, Austria-Hungary. Type casting and composing machine	628,631	July 11	1302	303 304 305 306	88	271
Mercadier, Ernest J. P., and H. R. J. Pierquin, Paris, France. Multiple telegraph	622,629	Apr. 4	792	184 185	87	150
Mercein, Thomas R., and E. R. Porter, Milwaukee, Wis. Shoe-box	618,707	Jan. 31	3513	784	86	746
Mercer, Alfred C., Syracuse, N. Y. Photographic finder	624,517	May 9	1056	238	87	927
Mercer, Frederick J., Hyde Park, Mass. Wheel	637,470	Nov. 21	2396	519	89	1440
Mercer, John B., London, England. Signature-gatherer	628,829	July 11	1658	384 385	88	344
Mercer, Joseph R., assignor of one-half to J. W. Martin, Hartford, Mo. Automatic vehicle-brake	622,378	Apr. 4	307	71	87	59
Mercer, Joseph W., Alliance, Ohio. Fastening for railway fish-plates	632,734	Sept. 12	1003	233	88	1919
Mercer, Richard E., Detroit, Mich. Device for administering anesthetics	628,484	July 11	1000	233	88	213
Merchand, Leon J. (See Sargent and Martin, assignors.)						
Merchant & Company (See Middleton, Ethelbert H., assignor.)						
Merchant, Hanna V. P. (See Saunders, David H., assignor.)						
Merchant, J. H., *et al.* (See Pitt, William, assignor.)						
Merck, Firm of E. (See Ehrenberg, Alexander, assignor.)						
Merck, Firm of E. (See Willstätter, Richard, assignor.)						
Meredith, Madison W. (See Fox and Meredith.)						
Mergenthaler Linotype Company. (See Bates, George A., assignor.)						
Mergenthaler Linotype Company. (See Coe, Walter S., assignor.)						
Mergenthaler Linotype Company. (See Damm, Fredrich C., assignor.)						
Mergenthaler Linotype Company. (See Dodge, Philip T., assignor.)						
Mergenthaler Linotype Company. (See Dolby, Frank C., assignor.)						
Mergenthaler Linotype Company. (See Elliott, Richard C., assignor.)						
Mergenthaler Linotype Company. (See Girod, Ernest, assignor.)						
Mergenthaler Linotype Company. (See Holliwell and Lewis, assignors.)						
Mergenthaler Linotype Company. (See Ireland, Charles L., assignor.)						
Mergenthaler Linotype Company. (See Meistrell, Henry F., assignor.)						
Mergenthaler Linotype Company. (See Muehleisen, Carl, assignor.)						
Mergenthaler Linotype Company. (See Nadall and Barr, assignors.)						
Mergenthaler Linotype Company. (See Pendleton, Louis B., assignor.)						
Mergenthaler Linotype Company. (See Reid and Hess, assignors.)						
Mergenthaler Linotype Company. (See Rogers, John R., assignor.)						
Mergenthaler Linotype Company. (See Wich, Ferdinand J., assignor.)						
Mergenthaler, Ottmar, assignor to Ott. Mergenthaler Company, Baltimore, Md. Automatic milling-machine	636,911	Nov. 14	1309	281	89	1213
Mergenthaler, Ottmar, assignor to Ott. Mergenthaler Company, Baltimore, Md. Machine for straightening metal stock	636,912	Nov. 14	1312	281	89	1213
Mergenthaler, Ottmar, assignor to Ott. Mergenthaler Company, Baltimore, Md. Punching-press	636,913	Nov. 14	1314	282	89	1214
Mergenthaler, Ottmar, assignor to Ott. Mergenthaler Company, Baltimore, Md. Universal milling-machine	636,914	Nov. 14	1316	282 283	89	1214
Mergenthaler, Ottmar, assignor to Ott. Mergenthaler Company, Baltimore, Md. Automatic milling-machine	636,915	Nov. 14	1323	284	89	1215
Mergenthaler, Ottmar, assignor to Ott. Mergenthaler Company, Baltimore, Md. Stamping-press	636,916	Nov. 14	1327	284 285	89	1215
Mergenthaler, Ottmar, assignor to Ott. Mergenthaler Company, Baltimore, Md. Automatic milling-machine	636,917	Nov. 14	1330	285 286	89	1216
Mergenthaler, Ottmar, assignor to Ott. Mergenthaler Company, Baltimore, Md. Automatic milling-machine	636,918	Nov. 14	1333	286	89	1216
Merideth, Zachary, Emporia, Kans. Train-order-holding device	629,455	July 25	2794	649	88	600
Mering, Joseph von, Halle-on-the-Saale, Germany. Making ethyl morphin	629,264	July 18	2433	------	88	508
Merkel, Charles L., Milwaukee, Wis. Bicycle	622,817	Apr. 11	1137	263	87	235
Merkel, Hermann, St. Louis, Mo. Incandescent vapor-burner	629,300	July 18	2490	581	88	519
Merkoolyeff, Philipp I., New York, N. Y. Folding baby-carriage	632,018	Aug. 29	4231	952 953	88	1616
Mermod Frères. (See Vernaz, Alexis, assignor.)						
Merralls, William A., San Francisco, Cal. Mortar for stamp-batteries	637,471	Nov. 21	2398	520	89	1440
Merralls, William A., San Francisco, Cal. Mortar for stamp-batteries	637,472	Nov. 21	2399	520	89	1440
Merrell, Irving S. (See Gere and Merrell.)						
Merrell-Soule Company. (See Gere, William B., assignor.)						
Merrell-Soule Company. (See Gere and Merrell, assignors.)						
Merriam, Henry P., New York, N. Y. Fuse	630,620	Aug. 8	1713	385	88	1070
Merriam, Henry P., New York, N. Y. Fuse for projectiles	630,621	Aug. 8	1715	385	88	1070
Merriam, Henry P., New York, N. Y. Fuse for projectiles	630,622	Aug. 8	1720	385	88	1070
Merriam, Henry P., New York, N. Y., and E. J. Wessels, East Orange, N. J., assignors to Standard Air Brake Company, of New York. Pneumatic brake apparatus	618,576	Jan. 31	3276	727	86	699
Merrick, Asa L., *et al.* (See Lawson, Benjamin S., assignor.)						
Merrick, Eugene M., *et al.* (See Lawson, Benjamin S., assignor.)						
Merrick, Frank A. (See Blood and Merrick.)						
Merrick, Frank A., Johnstown, Pa. Controlling system for electric motors	632,019	Aug. 29	4234	953	88	1617
Merrick, Frank A., Johnstown, Pa., assignor to Steel Motor Company, of Ohio. Electric switch	638,199	Nov. 28	4148	876	89	1845
Merrick, Frank W., Boston, Mass. Presser-foot-lifting mechanism for sewing-machines	629,108	July 18	2171	504	88	461
Merrill, Bela G., Oak Park, Ill. Ink-well cover	628,107	July 4	290	68	88	57
Merrill, Charles W., Alameda, Cal. Discharge-gate for tanks	635,442	Oct. 24	2765	632	89	594
Merrill, Frank H., and F. P. Woodsome, Portland, Me. Trolley	637,812	Nov. 28	3387	709	89	1694

Alphabetical list of patentees—Continued.

Name, residence, and invention.	No.	Date.	Monthly volume.		Official Gazette.	
			Spec.	Dr'g.	Vol.	Page.
Merrill, Frank W., Scarborough, Me., assignor to J. A. Rafter, Montreal, Canada, and N. S. V. Hamel, Portland, Me. Dry-air freezer	618,115	Jan. 24	2402	536	86	520
Merrill, George S., Beloit, Wis. Restoring worn rolled or drawn metallic articles	617,422	Jan. 10	1091	249	86	232
Merrill, Grant U., Paterson, N. J. Weighing apparatus	619,898	Feb. 21	2040	463	86	1250
Merrill, Grant U., Paterson, N. J. Lubricator	629,583	July 25	3043	710	88	648
Merrill, Jeremiah H., Exeter, N. H. Knockdown decoy	639,261	Dec. 19	1966	453	89	2284
Merrill, Joseph F., Boston, Mass. Apparatus for forming wax-ends	627,826	June 27	2999	655	87	2255
Merrill, Lemuel, Melrose, Mass. Shears for ripping seams	619,326	Feb. 14	996	225	86	1025
Merrill, Nathaniel C., New York, N. Y., assignor to Uncle Sam Novelty Company, Providence, R. I. Level	621,358	Mar. 21	1528	340	86	1823
Merrill, Robert A., Cincinnati, Ohio. Flushing apparatus	631,025	Aug. 15	2430	551	88	1234
Merrill, Ulysses G. (See Lapish, Joseph S., assignor.)						
Merrill, Will O. (See Tallmadge, James W., assignor.)						
Merrill, William E. T., and A. Lepper, assignors to said Lepper and F. W. Starke, Philadelphia, Pa. Wrapper for hams	624,839	May 9	1643	371	87	1042
Merrillees, Elizabeth, Melbourne, Victoria. Combined corset and abdominal belt	639,078	Dec. 12	1623	373	89	2202
Merriman, Edward B., Boston, Mass. Megaphone	622,379	Apr. 4	309	71	87	59
Merriman, Leonard J., Ivanhoe, N. C. Plant-protector	617,034	Jan. 3	331	78	86	65
Merriman, Lorenzo L., *et al.* (See Davis, John H., assignor.)						
Merritt, Arthur A., Cohoes, assignor, by mesne assignments, to W. P. and H. White and C. B. Crouse, Utica, N. Y. Start or stop motion mechanism	630,298	Aug. 1	1055	229 230	88	930
Merritt, Edward H., assignor of three-fourths to D. H. Payne, W. A. and E. M. Wasson, Columbus, Ohio. Type-writing machine	629,800	Aug. 1	68	17,18	88	734
Merritt, George H., Sag Harbor, N. Y. Device for oiling piston-rods	635,334	Oct. 24	2498	580	89	542
Merritt, George M., assignor of one-half to W. A. Clark, Newark, N. J. Inhaler	622,701	Apr. 11	944	218	87	199
Merritt, Henry S., *et al.* (See Ellis, Charles S., assignor.)						
Merritt, William H., Strathroy, Canada. Table-leg fastening	634,989	Oct. 17	1858	441	89	402
Merrow Machine Company. (See Stedman, William H., assignor.)						
Merry, George G. S., Boston, Mass., assignor to Automatic Weighing, Lifting, and Grip Machine Company, Portland, Me. Combined coin-controlled weighing-scale, grip, and lifting machine	624,518	May 9	1058	238 239	87	927
Merry, Horace R., *et al.* (See Malven, James H., assignor.)						
Mersch, Paul, Paris, France. Electric-arc lamp	625,183	May 16	2240	509 510	87	1173
Mersch, Paul, Paris, France. Mantle for electric-arc lamps	637,635	Nov. 21	3070	635	89	1611
Mersereau, Edward. (See Norton, William A., assignor.)						
Mershon, Claude. (See Histed and Mershon.)						
Mershon, Edward C., Saginaw, Mich. Attachment for edging or ripping saws	635,107	Oct. 17	2091	491	89	449
Mershon, Ralph D., New York, N. Y., assignor to Westinghouse Electric and Manufacturing Company, of Pennsylvania. Rotary-transformer regulation	620,343	Feb. 28	2825	644	86	1414
Mershon, Ralph D., New York, N. Y., assignor to Westinghouse Electric and Manufacturing Company, of Pennsylvania. Station potential-indicator	629,584	July 25	3044	710	88	648
Mershon, William B., and J. M. Morley, Saginaw, Mich. Portable house	630,908	Aug. 15	2207	503	88	1191
Mertens, Henry. (See Brockmann, Henry, Jr., assignor.)						
Mertes, Joseph P., Janesville, Wis. Garden-tool	633,465	Sept. 19	2386	561	88	2202
Mertins, Ida A., Chicago, Ill. Dust-arrester for hot-air registers	637,519	Nov. 21	2484	539	89	1456
Merwin, Burton P., Aspetuck, Conn. Latch	618,708	Jan. 31	3514	784	86	746
Merz, Daniel, *et al.* (See Deutsch, Sigmund, assignor.)						
Merz, Henry, Jr. (See Fisher, Daniel, assignor.)						
Meservey, George O., Marden, Ill. Wire-fence machine	639,749	Dec. 26	2891	666	89	2488
Meshamer, George, New Castle, Pa. Car-coupling	639,750	Dec. 26	2893	667	89	2489
Meskill, Thomas B., Fulton, Ky. Siding-gage	631,315	Aug. 22	2958	669	88	1356
Mesmer, Peter W., Vermilion, Kans. Cultivator	621,580	Mar. 21	1923	429 430	86	1898
Messer, Burton B., Washington, Pa. Glass-press	626,072	May 30	3911	888	87	1536
Messer, Richard B. (See Tyden, Emil, assignor.)						
Messick, Charles, Jr., Hackensack, N. J. Waist-belt	627,864	June 27	3068	671	87	2269
Messick, David, Timberville, Va. Lightning-arrester	636,441	Nov. 7	356	80	89	993
Messinger-Hall Manufacturing Company. (See Messinger, William T., assignor.)						
Messinger, William T., assignor to Messinger-Hall Manufacturing Company, Boston, Mass. Fluid-discharging apparatus	638,974	Dec. 12	1450	331	89	2170
Messler, Eugene L., Pittsburg, Pa. Chute	630,623	Aug. 8	1725	386	88	1071
Mesta, George. (See Kepp and Mesta.)						
Meston, Charles R. (See Parker and Meston.)						
Meston, Charles R., St. Louis, Mo. Lubricated bearing	622,247	Apr. 4	80	19	87	19
Meston, Charles R., assignor to Emerson Electric Manufacturing Company, St. Louis, Mo. Electric motor	617,114	Jan. 3	488	117	86	96
Meston, Charles R., assignor of one-half to Emerson Electric Manufacturing Company, St. Louis, Mo. Attachment for electric motors	628,014	July 4	103	21	88	22
Meston, Charles R., assignor to Emerson Electric Manufacturing Company, St. Louis, Mo. Electric motor. (Reissue)	11,787	Nov. 14	1928	413	89	1330
Mészáros, Kanut C., Mária-Radna, Austria-Hungary. Coupling for railway-wagons, &c.	626,007	May 30	3793	863	87	1516
Metallic Heel and Counter Company. (See Packard, Davis H., assignor.)						
Metalloid Sidewalk Company. (See Johnson, Albert L., assignor.)						
Metcalf, Arthur S. E., Amberg, Wis. Combined shears and knife	631,403	Aug. 22	3111	705	88	1386
Metcalf, Bryce, assignor to Weir Filter Company, New York, N. Y. Water reservoir and cooler	617,035	Jan. 3	332	79	86	65
Metcalf, David, *et al.* (See Hoxie, George L., assignor.)						
Metcalf, George C., Cleveland, Ohio. Wire fence	618,891	Feb. 7	128	28	86	829
Metcalf, George C., Cleveland, Ohio. Wire fence	632,787	Sept. 12	1106	255	88	1942
Metcalf, Herbert E., Boone, Ind. Bridle-bit	636,159	Oct. 31	4133	946	89	875
Metcalf, William G., Dayton, Ohio. Pin-ticket machine	619,773	Feb. 21	1796	411 412	86	1203
Metcalfe, William S., Hartford, Conn. Envelop-machine	627,586	June 27	2561	564 565	87	2168
Metropolitan Life Insurance Company. (See Sturm, Lydia K., assignor.)						
Metropolitan Register Company. (See Hess, Edward B., assignor.)						
Metting, Wilhelm H., Trenton, N. J. School furniture	630,253	Aug. 1	964	212	88	913
Metz, Charles H., Waltham, Mass. Differential gear	624,519	May 9	1061	239	87	928
Metz, John H., Denver, Colo. Sash-lock	637,755	Nov. 21	3294	688	89	1656
Metzenaur, Emil, St. Louis, Mo. Can-filling machine	628,951	July 18	1882	437	88	403
Metzger, Alfred, Philadelphia, Pa. Wrench attachment for combination-tools	626,285	June 6	122	31	87	1637
Metzger, William W., assignor of one-half to L. J. Long, Kansas City, Mo. Revolving sign	631,470	Aug. 22	3237	734	88	1412
Metzig, Herman G., Berlin, Wis. Animal catching and holding tool	623,612	Apr. 25	2609	596	87	557

Alphabetical list of patentees—Continued.

Name, residence, and invention.	No.	Date.	Monthly volume. Spec.	Monthly volume. Dr'g.	Official Gazette. Vol.	Official Gazette. Page.
Meuli-Hilty, John, Maerstetten, Switzerland. Bicycle-trainer	637,398	Nov. 21	2273	489	89	1415
Meurer, Otto. (See Body, Michel, assignor.)						
Mewes, Rudolf, assignor to Wachtel & Stoltz, Berlin, Germany. Combustion-motor	633,878	Sept. 26	3136	727, 728	88	2365
Meyberg, Max, Los Angeles, Cal. Keyless switch-socket for incandescent lamps	622,188	Mar. 28	3068	695	86	2138
Meyer, Arnt, assignor to J. O. Olson, Milwaukee, Wis. Sad-iron	629,801	Aug. 1	73	18	88	735
Meyer, Aubrey E., Whitehall, N. Y. Surface decoration and ornamentation	637,636	Nov. 21	3071	635	89	1611
Meyer, August and W. C., Addieville, Ill. Foot-warmer	628,182	July 4	422	99, 100	88	85
Meyer, Benjamin F. (See Sinnickson and Meyer.)						
Meyer, Ernst A., Memphis, Tenn. Acetylene-gas-generating apparatus	624,361	May 2	756	170	87	845
Meyer, Ernst R., Detroit, Mich. Device for preventing fraudulent refilling of bottles	635,335	Oct. 24	2498	580	89	542
Meyer, Frederick L., New York, N. Y. Curtain-fixture	622,508	Apr. 4	571	134	87	108
Meyer, George, Breckenridge, Mich. Ice-velocipede	618,251	Jan. 24	2665	590	86	569
Meyer, Henry, Atlanta, Ga. Shutter-fastener	630,548	Aug. 8	1583	353	88	1045
Meyer, Henry, Exira, Iowa. Tire-tightener	633,602	Sept. 26	2662	621	88	2268
Meyer, Hugo H. (See Kruming, Christoph, assignor.)						
Meyer, Johannes, assignor of three-eighths to G. Piel, New York, N. Y. Sensitizing paper	637,637	Nov. 21	3072	------	89	1612
Meyer, Johannes, assignor of three-eighths to G. Piel, New York, N. Y. Composition for sensitizing paper or other surfaces	637,638	Nov. 21	3074	------	89	1612
Meyer, John W. (See Pries and Meyer.)						
Meyer, Julius, New York, N. Y. Safety device for elevators	617,537	Jan. 10	1289	292	86	271
Meyer, Julius, New York, N. Y. Car-coupling	638,024	Nov. 28	3807	800, 801	89	1777
Meyer, Matthias D., San Francisco, Cal. Track-crossing protector	638,876	Dec. 12	1282	291	89	2135
Meyer, Peter, Cologne-Nippes, Germany. Table-fork cleaner	627,622	June 27	2644	581	87	2186
Meyer, Philipp, Magdeburg, Germany. Folding umbrella-stick	627,780	June 27	2916	638	87	2240
Meyer, Svend M. (See Brigham and Meyer.)						
Meyer, Svend M., New York, N. Y. Device for lighting lamps by electricity	631,316	Aug. 22	2959	669	88	1357
Meyer, Svend M., New York, N. Y. Device for lighting lamps by electricity	633,246	Sept. 19	1980	464	88	2124
Meyer, Svend M., assignor of one-half to W. H. Seidel, New York, N. Y. Automatic electrical gas-lighting device	630,814	Aug. 8	2036	459	88	1134
Meyer, Svend M., assignor to W. H. Seidel and W. C. Tegethoff, New York, N. Y. Electric lighting device for incandescent gas-burners	631,748	Aug. 22	3750	841, 842	88	1511
Meyer, William C. (See French and Meyer.)						
Meyer, William C. (See Meyer, August and W. C.)						
Meyerpeter, Stephen J., Janesville, Wis. Fountain-pen	629,519	July 25	2937	683	88	627
Meyers, Andrew, assignor to W. L. Bean, Spokane, Wash. Gear-changing mechanism	630,512	Aug. 8	1512	338	88	1030
Meyrowitz, Emil B., Ridgefield, N. J. Oculist's testing-frame	635,443	Oct. 24	2766	632, 633	89	595
Meyrowitz, Emil B., and F. Buchhop, New York, N. Y. Optician's testing-frame	635,444	Oct. 24	2768	633	89	595
Meyrueis, Jules, Paris, France. Machine for printing in colors	618,252	Jan. 24	2666	590, 591, 592	86	569
Meyrueis, Jules, Paris, France. Printing-machine	618,253	Jan. 24	2671	592	86	569
Meytrott, Henry. (See Waibel and Meytrott.)						
Michaels, John. (See Morris, Albert E., assignor.)						
Michaels, John, *et al.* (See Snowdon, Archibald G., assignor.)						
Michel, A., *et al.* (See Nicolas, Alexander C., assignor.)						
Michel, John S. (See Weyble, Arthur R., assignor.)						
Michel, Joseph, Denver, Colo. Automatic disinfecting device	626,242	June 6	46	11	87	1623
Michell, Henry C., Toronto, Canada. Pipe or boiler covering	620,476	Feb. 28	3036	695	86	1454
Michelsen, John H., Butte, Mont. Ore-concentrating machine	636,679	Nov. 7	812	180	89	1087
Michie, John C., Durham, N. C. Entrenching-tool	634,696	Oct. 10	1330	316	89	283
Michigan Optical Company. (See Moews, Paul, assignor.)						
Michigan Vapor Stove Company. (See Denton, Lemi B., assignor.)						
Michigan Vapor Stove Company. (See Kenyon, Bertrand P., assignor.)						
Mickelson, Albert C., *et al.* (See Shedd, Hugh E., assignor.)						
Mickey, William H. (See Campbell and Mickey.)						
Middlebrook, William D., Waterbury, Conn., assignor to Cushman & Denison, New York, N. Y. Machine for making wire paper-clips	636,272	Nov. 7	83	20	89	939
Middlebrook, William S., Middlesex, N. Y. Berry grader and cleaner	633,527	Sept. 19	2484	584	88	2221
Middlekauff, Ellsworth D., San Francisco, assignor to W. D. Bowen, Fresno, Cal. Can-opener	618,426	Jan. 31	3012	667	86	650
Middlekauff, Ellsworth D., San Francisco, assignor to W. D. Bowen, Fresno, Cal. Ice-cream freezer	622,248	Apr. 4	82	19	87	19
Middlekauff, Ellsworth D., San Francisco, assignor to W. D. Bowen, Fresno, Cal. Cake-turner	625,934	May 30	3610	821	87	1481
Middlekauff, Ellsworth D., San Francisco, Cal., assignor of one-half to W. E. Hall, Chicago, Ill. Bicycle-lamp	626,627	June 6	721	167	87	1755
Middlekauff, Ellsworth D., Oakland, Cal., assignor of one-half to W. E. Hall, Chicago, Ill. Lemon-squeezer	626,626	June 6	719	166	87	1754
Middlekauff, Ellsworth D., San Francisco, assignor to W. D. Bowen, Fresno, Cal. Lemon-squeezer	633,247	Sept. 19	1981	464, 465	88	2124
Middleton, Arthur T. (See Middleton, Charles E., F. P., and A. T.)						
Middleton, Charles E., F. P., and A. T., Adlington, England. Dyeing apparatus	632,317	Sept. 5	200	46	88	1746
Middleton, Edward D. (See Barnhart and Middleton.)						
Middleton, Ethelbert H., assignor to Merchant & Company, Incorporated, Philadelphia, Pa. Ventilator-cap	637,520	Nov. 21	2485	539	89	1456
Middleton, Francis P. (See Middleton, Charles E., F. P., and A. T.)						
Middleton, Frank L., administrator. (See Romaine, Robert.)						
Middleton, Hugh C., Augusta, Ga. Medicine-spoon	620,792	Mar. 7	474	98	86	1594
Midgley, Thomas, assignor of two-thirds to G. C. Urlin and L. Fink, Columbus, Ohio. Metallic tubing	624,956	May 16	1854	416	87	1100
Miehle, Charles E., assignor of one-third to J. S. Baker, Riverside, Cal. Spectacles	633,023	Sept. 12	1522	354	88	2022
Miehle Printing Press and Manufacturing Company. (See Miehle, Robert, assignor.)						
Miehle Printing Press and Manufacturing Company. (See Yates, William B., assignor.)						
Miehle, Robert, Chicago, Ill. Paper-jogger	618,892	Feb. 7	129	28	86	829
Miehle, Robert, Chicago, Ill. Sheet receiving and drying machine	636,826	Nov. 14	1132	243, 244	89	1178
Miehle, Robert, assignor to Miehle Printing Press and Manufacturing Company, Chicago, Ill. Machine for cutting paper	621,839	Mar. 28	2416	540	86	2010
Miehle, Robert, assignor to Miehle Printing Press and Manufacturing Company, Chicago, Ill. Mechanism for controlling ink-transfer rolls	636,344	Nov. 7	191	42	89	959

Alphabetical list of patentees—Continued.

Name, residence, and invention.	No.	Date.	Monthly volume. Spec.	Monthly volume. Dr'g.	Official Gazette. Vol.	Official Gazette. Page.
Miehle, Robert, assignor to Miehle Printing Press and Manufacturing Company, Chicago, Ill. Offset mechanism for printing-presses	636,442	Nov. 7	357	81	89	993
Miehle, Robert, assignor to Miehle Printing Press and Manufacturing Company, Chicago, Ill. Printing-press	637,813	Nov. 28	3388	710	89	1694
Miekley, Albert. (See Böekelmann, Ludwig F. G., assignor.)						
Miesse, Jacob B., Noblesville, Ind. Gate	621,969	Mar. 28	2678	603	86	2059
Miesse, Jacob B., Noblesville, Ind. Gate-latch	627,587	June 27	2566	566	87	2169
Mifflin, George W. (See Crossley, William H., assignor.)						
Migge, Henry, St. Louis, Mo. Rotary engine	638,520	Dec. 5	631	131	89	1987
Mignot, Joseph, assignor of one-half to G. F. Wise, Tyrone, Pa. Fire-escape	639,751	Dec. 26	2894	667	89	2489
Mihatsch, Alois, *et al.* (See Rakus, Leo, assignor.)						
Mijamlin, Sergiej A., Kiew, Russia. Apparatus for melting snow and ice	627,128	June 20	1695	371	87	1981
Mikkelsen, Nis, New York, N. Y. Cobbling apparatus	626,920	June 13	1329	292	87	1889
Mikkola, Henry, Erie, Pa. Shovel	629,456	July 25	2794	650	88	601
Milbert, Jacob. (See Kintz, Herbert, assignor.)						
Milbrath, William, Lakefield, Minn. Wire-reel	636,004	Oct. 31	3823	879	89	813
Milburn, William M., Harrison, Ark. Air-tight heating-stove	635,566	Oct. 24	2979	683	89	635
Milch, Bruno, Berlin, Germany. Car-coupling	636,827	Nov. 14	1138	244	89	1179
Mileham, Charles M., Chicago, Ill. Railway-car	633,205	Sept. 19	1888	445	88	2105
Miles, Annie S., Oromocto, Canada. Fly-screen	627,588	June 27	2567	566	87	2169
Miles, Bradford S., Gray's Summit, Mo. Apparatus for cleaning ships' bottoms	639,079	Dec. 12	1624	373, 374	89	2202
Miles, Casper W., Cincinnati, Ohio. Process of and apparatus for refining or crystallizing soluble crystalline substances	633,206	Sept. 19	1890	445, 446	88	2106
Miles, Casper W., Cincinnati, Ohio. Refining or crystallizing apparatus	633,207	Sept. 19	1895	446, 447	88	2107
Miles, Don D., Aurora, Ill. Magazine bolt-gun	618,116	Jan. 24	2403	536, 537	86	521
Miles, John E. (See Stanley, George E., assignor.)						
Miles, Oscar L., Van Buren, Ark. Art of and means for checking and auditing earnings of passenger-trains	633,603	Sept. 26	2663	621, 622	88	2269
Miles, Oscar L., Van Buren, Ark. Strip holding and exhibiting box	633,604	Sept. 26	2666	622	88	2265
Miles, Samuel R., Yonkers, N. Y. Pump water-closet for ships	637,399	Nov. 21	2273	490	89	1115
Miles, Stephen S., Cincinnati, Ohio. Washboiler	624,840	May 9	1644	372	87	1042
Miley, Sarah J., Manchester, N. H. Clothes-pin	622,380	Apr. 4	310	72	87	59
Milhime, John G., Chicago, Ill. Step-ladder	625,184	May 16	2242	510	87	1173
Milks, Elbert D., Machias, N. Y. Spoon-holder	637,008	Nov. 14	1507	324	89	1251
Mill, George A. (See Richardson, Robert, assignor.)						
Milla, Karl, Vienna, Austria-Hungary. School-bench	636,543	Nov. 7	550	121	89	1032
Millane, Annie E. (See Millane, Michael, assignor.)						
Millane, Michael, Richmond, assignor of one-half to A. E. Millane, Elsternwick, Victoria. Binder-harvester	617,759	Jan. 17	1708	383	86	371
Millar, Adam, Glasgow, Scotland. Insoluble thread or filament	625,345	May 23	2546	------	87	1256
Millar, George W., *et al.* (See Mather, Henry W., assignor.)						
Millar, Henry A., Buenos Ayres, Argentina. Feed-water heater	628,344	July 4	749	173	88	144
Millard, Augustus C., deceased; C. L. Millard, administratrix, assignor to Millard Bros., Coudersport, Pa. Ironing-table	630,815	Aug. 8	2087	460	88	1134
Millard Bros. (See Millard, Augustus C., assignor.)						
Millard, Celestia L., administratrix. (See Millard, Augustus C.)						
Millen, George, San Antonio, Tex. Ball-bearing	634,898	Oct. 17	1694	400	89	369
Millen, Pheath L. (See St. Jean, Joseph A., assignor.)						
Millen, Thomas, New York, N. Y. Car-step lifter	625,935	May 30	3611	821	87	1481
Millen, Thomas, New York, N. Y. Sign	626,791	June 13	1054	237	87	1838
Miller, Aaron D., assignor of one-half to S. J. and A. J. Adler, Evansville, Ind. Blind-slat tenon	617,468	Jan. 10	1162	265	86	245
Miller, Abram R., Harvey, N. D. Device for injecting fumes	621,613	Mar. 21	1978	441	86	1909
Miller, Alfred P., assignor to Miller Car Lock and Seal Company, Chicago, Ill. Car-seal	626,628	June 6	723	167	87	1755
Miller, Andreas M., *et al.* (See Stephens, Dabney B., assignor.)						
Miller, Andrew C., Corona, Cal. Perforator for printing-presses	639,206	Dec. 12	1867	430	89	2249
Miller, Andrew E., Baltimore, Md., assignor to H. Cassard, Chicago, Ill. Broom-sewing machine	618,798	Jan. 31	3663	820, 821, 822	86	776
Miller, Andrew H., assignor of one-half to E. H. Fontaine, Central City, Colo. Electric switch	619,900	Feb. 21	2045	464	86	1252
Miller, Andrew H., Central City, assignor to Miller Improved Incandescent Lamp Company, Denver, Colo. Incandescent lamp	629,198	July 18	2324	539	88	488
Miller, Andrew J. J. (See Crowe, Frederick C., assignor.)						
Miller, Anthony. (See Wardell, John G., assignor.)						
Miller, August, Burlington, Iowa. Ventilating system	632,582	Sept. 5	680	158	88	1841
Miller, August, West Burlington, assignor of one-half to E. H. Hoelzen, Burlington, Iowa. Oil-can	628,435	July 4	903	211	88	174
Miller, Augustus, St. Paul, Minn. Mop-head	636,544	Nov. 7	552	121	89	1032
Miller Car Lock and Seal Company. (See Miller, Alfred P., assignor.)						
Miller, Charles. (See Lombard and Miller.)						
Miller, Charles A., Marshalltown, Iowa. Elliptic spring	636,828	Nov. 14	1140	245	89	1179
Miller, Charles E., Scranton, Pa. Rotary engine	636,829	Nov. 14	1141	245	89	1179
Miller, Charles H., assignor to Feed Water Purifier Company, Kalamazoo, Mich. Feed-water heater and purifier	627,198	June 20	1806	396	87	2003
Miller, Charles J., Meridian, Miss. Lubricator	625,847	May 30	3448	782	87	1450
Miller, Charles L. (See George, Jerome R., assignor.)						
Miller, Charles S., Pittsburg, Pa. Safety-brake mechanism	634,305	Oct. 3	629	153	89	126
Miller, Charles W., assignor to J. A. Jeffrey, Columbus, Ohio. Mining-machine	630,388	Aug. 8	1267	276, 277	88	986
Miller, Daniel J. (See Rockenbaugh and Miller.)						
Miller, David H., assignor to American Chainless Wheel Company, Chicago, Ill. Velocipede-gear	623,680	Apr. 25	2722	624	87	579
Miller, David H., assignor to American Chainless Wheel Company, Chicago, Ill. Velocipede-frame	635,896	Oct. 31	3620	834	89	774
Miller, Della M., Toledo, Ohio. Adjustable window-shade bracket	634,179	Oct. 3	361	92	89	74
Miller, Du Brul & Peters Manufacturing Company. (See Du Brul, Albert, assignor.)						
Miller, Edward E., Elma, Iowa. Water-tank heater and feed-cooker	621,359	Mar. 21	1529	340	86	1824
Miller, Emma E., Sacramento, Cal. Mop-wringer	618,515	Jan. 31	3173	700	86	679
Miller, Ernest A., assignor of one-half to T. E. Christman, Jackson, Mich. Lawn-mower	625,584	May 23	2951	671	87	1336
Miller, Ernest A., and T. E. Christman, Jackson, Mich. Hose-coupling	617,591	Jan. 10	1389	315	86	289

Alphabetical list of patentees—Continued.

Name, residence, and invention.	No.	Date.	Monthly volume.		Official Gazette.	
			Spec.	Dr'g.	Vol.	Page.
Miller, Francis L. (See Fox, Ernest L., assignor.)						
Miller, Frank A., Dallas, Tex. Acetylene-gas generator	633,098	Sept. 12	1680	395 396	88	2053
Miller, Frank E., and G. L. Wheelock, New York, N. Y. Sanitary protector for water-closet seats	634,580	Oct. 10	1140	270 271	89	244
Miller, Frederic S., New York, N. Y. Asphalt-melter	623,613	Apr. 25	2610	596	87	558
Miller, Frederic S., New York, N. Y. Applying coatings to metallic surfaces	636,388	Nov. 7	275	61	89	976
Miller, George, *et al.* (See Moore, William H., assignor.)						
Miller, George, Baltimore, Md. Calcium-carbid holder	635,865	Oct. 31	3549	817	89	759
Miller, George J., Baltimore, Md. Lubricator	626,498	June 6	524	121	87	1715
Miller, George O., North Tonawanda, N. Y. Cellar-drain	628,207	July 4	466	111	88	93
Miller, George R., Easton, Pa. Flash-light lamp	635,567	Oct. 24	2980	683	89	635
Miller, George W., Woonsocket, R. I. Mercerizing apparatus	628,669	July 11	1378	322	88	286
Miller, George W., Meriden, Conn. Pocket-knife	631,546	Aug. 22	3386	767	88	1442
Miller, George W., Meriden, Conn. Knife	631,547	Aug. 22	3388	767	88	1442
Miller, George W., Indian Orchard, Mass. Combined road scraper and roller	635,336	Oct. 24	2500	581	89	542
Miller, Gusty L., Uniopolis, Ohio. Wire-fence machine	624,520	May 9	1062	240	87	928
Miller, H. Cortez, *et al.* (See Mallory and Stoner, assignors.)						
Miller, Harmon H. (See Pritchard and Miller.)						
Miller, Henry, Mexico, Pa. Bench-plane	636,830	Nov. 14	1143	246	89	1180
Miller, Henry C., Milwaukee, Wis. Temporary binder	617,757	Jan. 17	1704	383	86	371
Miller, Henry C., Milwaukee, Wis. Back for temporary binders	617,758	Jan. 17	1706	383	86	371
Miller, Henry F., *et al.* (See Moore, William H., assignor.)						
Miller, Henry J., Paris, France. Artificial tooth	628,345	July 4	750	173	88	144
Miller, Henry T., New York, N. Y. Seat-post for bicycles	629,697	July 25	3239	754	88	685
Miller, Henry T., New York, N. Y. Handle-bar attachment for bicycles	637,400	Nov. 21	2275	490	89	1415
Miller, Horace E., Newark, N. J., assignor to Celluloid Company, New York, N. Y. Means for protecting surfaces of glass during manufacture into mirrors	621,360	Mar. 21	1530	340	86	1824
Miller Improved Incandescent Lamp Company. (See Miller, Andrew H., assignor.)						
Miller, Irving M. (See Elliott and Miller.)						
Miller, J. C. (See Hill, Wilford A., assignor.) (Reissue.)						
Miller, Jacob A. (See Miller, John C., assignor.)						
Miller, Jacob W. (See Huber and Miller.)						
Miller, James, Surber, assignor to S. S. Gardner and T. McClelland, Falcon, Colo. Windmill	633,879	Sept. 26	3138	728	88	2365
Miller, James O., Coolgardie, Western Australia. Fire-escape	622,059	Mar. 28	2826	637	86	2089
Miller, James W. (See Uehling and Miller.)						
Miller, Jefferson N., *et al.* (See Wrede and Saunders, assignors.)						
Miller, Jeremiah J., Indianapolis, Ind. Portable journal-smoothing tool	625,585	May 23	2953	671	87	1336
Miller, John. (See Erts and Miller.)						
Miller, John, *et al.* (See Mallory and Stoner, assignors.)						
Miller, John, Cambridge, assignor of one-third to J. A. Miller, Lowell, Mass. Ratchet-drill and screw-threading device	633,880	Sept. 26	3141	728	88	2365
Miller, John A. (See Miller, John, assignor.)						
Miller, John A., Davenport, Iowa. Corn-planter	623,093	Apr. 11	1630	375	87	332
Miller, John B., New York, N. Y., assignor to W. C. Cushman, Summit, N. J. Protecting-shield for flat-irons	626,286	June 6	123	31	87	1637
Miller, John C., assignor to Miller Manufacturing Company, Torrington, Conn. Drip-trough for central-draft lamps	625,782	May 30	3318	753	87	1425
Miller, John C., assignor to Miller Manufacturing Company, Torrington, Conn. Central-draft lamp	639,594	Dec. 19	2589	594	89	2411
Miller, John C., assignor to J. A. Miller, Canton, Ohio. Machine for sterilizing, cooling, or heating liquids	634,950	Oct. 17	1777	422	89	386
Miller, John D., Washington, D. C. Milk-jar and top	637,740	Nov. 21	3260	680	89	1649
Miller, John D., Washington, D. C., assignor of three-eighths to W. C. Haskell, Cleveland, Ohio. Mail-collector's recorder	633,024	Sept. 12	1523	354	88	2022
Miller, John F., assignor of one-third to M. Scott, Allegheny, Pa. Float-valve or ball-cock	619,427	Feb. 14	1177	266	86	1058
Miller, John F., Saundersville, Mass., assignor to Woonsocket Machine and Press Company, Woonsocket, R. I. Wrench	634,853	Oct. 10	1620	379	89	338
Miller, John H. (See Earl and Miller.)						
Miller, John H., New Castle, Pa. Chill-mold for casting gear-wheels	619,084	Feb. 7	541	114	86	916
Miller, John H., assignor of one-half to I. L. Solomon, Bridgeport, Conn. Match-safe	636,413	Nov. 7	308	70	89	983
Miller, John J. A., Denver, Colo. Automatically-adjustable-roller car-wheel	629,011	July 18	1988	463	88	424
Miller, John K., and O. Nilander, Minneapolis, Minn.; said Nilander assignor to said Miller. Pneumatic conveyer attachment for blast or suction pipes	627,080	June 13	1600	350	87	1942
Miller, John M., Bellevue, Pa. Pit-heating furnace	626,073	May 30	3913	889	87	1537
Miller, John M., Bellevue, Pa. Glass-furnace	630,464	Aug. 8	1430	320	88	1015
Miller, John W., Bismarck, Ill. Draft-equalizer	637,883	Nov. 28	3540	742	89	1726
Miller, John Z., Indianapolis, Ind. Buggy-top rest	635,568	Oct. 24	2982	684	89	635
Miller, Joseph A., Jr., Providence, R. I. Spindle-support	619,899	Feb. 21	2044	463	86	1252
Miller, Joseph C., *et al.* (See Sendlein, Andreas, assignor.)						
Miller, Joseph H., assignor of two-fifths to F. Springer, Oklahoma, Okla. Ter. Garden-hose support	631,317	Aug. 22	2961	669	88	1357
Miller, Josiah, Mansfield, Ohio. Cue-support	635,569	Oct. 24	2983	684	89	636
Miller-Knoblock Company. (See Miller, William H., assignor.)						
Miller, Leah J., and W. McDonough, Ferndale, Cal. Vehicle-brake	624,064	May 2	206	45	87	742
Miller, Lewis E., Ottumwa, Iowa. Combined portable water-cart and watering-trough	634,828	Oct. 10	1564	368	89	328
Miller, Louis L., Newport, Ky. Stapling-machine	638,256	Dec. 5	102	23, 24	89	1886
Miller, Louis L., assignor to Ross-Moyer Manufacturing Company, Cincinnati, Ohio. Horse-collar	626,549	June 6	601	138	87	1731
Miller, Ludvic M., Winneconne, Wis. Drawer-equalizer	629,698	July 25	3240	754	88	686
Miller Manufacturing Company. (See Miller, John C., assignor.)						
Miller, Marcus A., assignor to Nineteen Hundred Washer Company, Binghamton, N. Y. Bench	631,404	Aug. 22	3112	705	88	1386
Miller, Morton G., Summit Grove, Ind. Guitar support and player	637,273	Nov. 21	2022	433 434	89	1364
Miller, Nathan. (See Miller, Philip R. and N.)						
Miller, Norman B., Philadelphia, Pa., assignor to James Smith & Company, Incorporated, Philadelphia, Pa., and Charleston, W. Va. Rod-packing	632,583	Sept. 5	681	158	88	1841
Miller, O. A. (See Luce, Don C., assignor.)						
Miller, Oliver A. (See McLaughlin, John F., assignor.)						
Miller, Oscar, Mountain Grove, Pa. Joint for railways	625,455	May 23	2734	622	87	1292
Miller, Oscar M., Benedict, Nebr. Wrench	620,477	Feb. 28	3038	695	86	1454
Miller, Philip R., Beemer, and N. Miller, Stanton, Nebr. Interchangeable horse and hand hay-rake and sweep	618,117	Jan. 24	2408	537	86	521

Alphabetical list of patentees—Continued.

Name, residence, and invention.	No.	Date.	Monthly volume.		Official Gazette.	
			Spec.	Dr'g.	Vol.	Page.
Miller, Philip S., Seattle, Wash. Plastering-trowel	636,345	Nov. 7	192	42	89	959
Miller, Reinhold A., Jr., Indianapolis, Ind. Folding show-rack	638,417	Dec. 5	444	92	89	1950
Miller, Reuben B., Denglers, assignor of one-half to C. G. Burkhart, Shillington, Pa. Mail-bag	627,434	June 20	2280	503	87	2098
Miller, Robert H., Morristown, N. J. Carpenter's square	634,581	Oct. 10	1142	271	89	244
Miller, Rufus H. M., Rector, Ark. Broom-head clamp	625,583	May 23	2950	671	87	1335
Miller, Samuel M., Mason City, Ill. Bicycle-support	636,680	Nov. 7	814	180	89	1087
Miller, Sidney W. (See Mackintosh, William, assignor.)						
Miller, Stephen J., assignor of one-half to J. L. White, Danbury, Conn. Machine for pouncing brims and crowns of hats	624,842	May 9	1646	372, 373	87	1043
Miller, Theodore H., New York, N. Y. Nurling-tool	632,358	Sept. 5	267	63	88	1760
Miller, Thomas, Jr., and W. O. Joslin, Springborough, Ohio. Packing-case	632,135	Aug. 29	4464	1005	88	1663
Miller, Thomas O., Houston, Tex. Car-brake	618,230	Jan. 24	2632	581	86	562
Miller, Thomas S., South Orange, N. J. Conveying apparatus	623,328	Apr. 18	2097	481	87	439
Miller, Thomas S., South Orange, N. J. Conveying apparatus	637,142	Nov. 14	1772	380	89	1301
Miller, Thomas S., South Orange, N. J. Conveying apparatus	637,143	Nov. 14	1773	380, 381	89	1301
Miller, Tobias, assignor of one-half to L. P. Whiteman, New York, N. Y. Bicycle-bell	632,819	Sept. 12	1170	268	88	1955
Miller, Upsure D., New Philadelphia, Ohio, assignor to J. H. Brown, Rural Retreat, Va. Harrow	623,488	Apr. 18	2375	546	87	495
Miller, Upsure D., New Philadelphia, Ohio, assignor to J. H. Brown, Rural Retreat, Va. Harrow	640,008	Dec. 26	3358	769	89	2581
Miller, Wallace J., Los Angeles, Cal. Combination scoop and scale	618,893	Feb. 7	131	29	86	830
Miller, Walter G., and W. L. Harris, Lodi, N. Y. Hose-coupling	625,783	May 30	3319	754	87	1425
Miller, William, Chloride, Ariz. Ter. Safety-hook	633,099	Sept. 12	1684	396	88	2055
Miller, William C., Lincoln, Nebr. Automatic throttle-valve	625,118	May 16	2137	485	87	1153
Miller, William E., Victor, Colo. Switch-stand	619,428	Feb. 14	1179	266	86	1058
Miller, William E., Denver, Colo. Tie-plate	635,500	Oct. 24	2857	652	89	612
Miller, William E., Denver, Colo. Device for applying protectors to fulminating-caps for explosive charges	636,919	Nov. 14	1336	286	89	1217
Miller, William H. (See Pawley and Miller.)						
Miller, William H., *et al.* (See Beighey, William J., assignor.)						
Miller, William H., assignor to Miller-Knoblock Company, South Bend, Ind. Sprinkler	634,899	Oct. 17	1695	400, 401	89	370
Miller, William H., assignor to Miller-Knoblock Company, South Bend, Ind. Sprinkler-head	634,900	Oct. 17	1697	401	89	370
Miller, William H., assignor to Miller-Knoblock Company, South Bend, Ind. Sprinkler-head	636,273	Nov. 7	87	20	89	989
Miller, William L., Newark, N. J., assignor to H. Torchiani, New York, N. Y. Barrel-pitching machine	627,781	June 27	2917	638	87	2240
Miller, William L., and W. E. Nichols, Crockett, Cal.; said Miller assignor to said Nichols. Valise	619,495	Feb. 14	1286	295	86	1081
Miller, William M., Tyler, Tex. Car-door cleat	626,074	May 30	3915	889	87	1537
Miller, William M. S., Sewickley, Pa. Necktie-fastener	622,963	Apr. 11	1406	323	87	287
Miller, William T., McKeesport, Pa. Overshoe	638,735	Dec. 12	1046	235	89	2090
Miller, William V., Bayonne, and G. P. Rice, Rutherford, N. J., assignors, by mesne assignments, to Excellograph Co. Photographic projecting-machine	623,410	Apr. 18	2239	513	87	467
Miller, William W., Jr., Altamont, Ill. Buggy-top support	624,841	May 9	1645	372	87	1043
Miller, Wilson B., McKenzie, Tenn. Farm-gate	635,570	Oct. 24	2983	684	89	636
Miller's Falls Company. (See Davis, Leonard M., assignor.)						
Millett, Elie. (See Marsh and Millett.)						
Millhiser, Clarence, and C. L. A. Doeppe, Richmond, Va. Bag-making machine	623,411	Apr. 18	2243	513, 514, 515	87	469
Milliken, Frederick L., trustee. (See Gilman, Willard H., assignor.)						
Milliken, Harry M. (See Sheldon and Milliken.)						
Millikin, John S., and W. E. Bowen, Ontario, Oreg. Leveling-rod	624,362	May 2	757	170	87	845
Millington, Harry M. (See Young, John S., assignor.)						
Milliron, Jacob, Nashville, Tenn. Hand-car	617,344	Jan. 10	932	215	86	201
Milloy, Peter D., Buffalo, N. Y. Trolley-catcher	632,272	Sept. 5	129	28	88	1733
Mills, Americus C., Jr., Rochester, N. Y. Displaying device	623,027	Apr. 11	1519	352	87	310
Mills, Aubrey, Clark's Fork, Mo. Feed-cutter	632,192	Aug. 29	4580	1031	88	1684
Mills, Charles, assignor to Pettee Machine Works, Newton, Mass. Apparatus for grinding flats for rotary carding-engines	623,095	Apr. 11	1643	380	87	335
Mills, Charles, and L. W. Penney, assignors to Pettee Machine Works, Newton, Mass. Carding-engine	623,094	Apr. 11	1632	376, 377, 378, 379, 380	87	332
Mills, Charles, and R. W. Hunton, assignors to Saco & Pettee Machine Shops, Newton, Mass. End clip for card-flats	628,830	July 11	1661	385	88	345
Mills, Charles, and L. W. Penney, assignors to Saco & Pettee Machine Shops, Newton, Mass. Drawing-frame	638,975	Dec. 12	1453	331, 332	89	2170
Mills, Charles, and L. W. Penney, assignors to Saco & Pettee Machine Shops, Newton, Mass. Railway-head	638,976	Dec. 12	1456	332, 333	89	2171
Mills, Charles, and L. W. Penney, assignors to Saco & Pettee Machine Shops, Newton, Mass. Railway-head	638,977	Dec. 12	1459	333, 334	89	2171
Mills, Daniel, Philadelphia, Pa., assignor to Standard Sewing Machine Company, Cleveland, Ohio. Stop mechanism	635,267	Oct. 17	2368	553, 554	89	500
Mills, Edward, assignor of one-half to J. A. Hosp, Jacksonville, Ill. Grinding-machine	626,436	June 6	408	96, 97	87	1692
Mills, Edwin H., assignor to J. A. Jeffrey, Columbus, Ohio. Mining-machine	635,174	Oct. 17	2212	516	89	471
Mills, Francis A., Methuen, Mass. Shoe-sewing machine	623,098	Apr. 11	1652	382, 383	87	336
Mills, Francis A., Philadelphia, Pa., assignor, by mesne assignments, to Mills Sewing Machine Company, Boston, Mass. Sewing-machine	623,096	Apr. 11	1644	381	87	335
Mills, Francis A., Philadelphia, Pa., assignor, by mesne assignments, to Mills Sewing Machine Company, of Maine. Sewing-machine	623,097	Apr. 11	1648	381, 382	87	335
Mills, Francis A., Methuen, Mass., assignor, by mesne assignments, to Mills Sewing Machine Company, of Maine. Shoe-sewing machine	623,099	Apr. 11	1657	383, 384, 385	87	337
Mills, Francis A., Methuen, Mass., assignor, by mesne assignments, to Mills Sewing Machine Company, of Maine. Shoe-sewing machine	623,100	Apr. 11	1667	385, 386	87	338
Mills, Francis A., Methuen, Mass., assignor, by mesne assignments, to Mills Sewing Machine Company, of Maine. Heating device for sewing-machines	623,101	Apr. 11	1670	386	87	339
Mills, Francis A., Methuen, Mass., assignor, by mesne assignments, to Mills Sewing Machine Company, of Maine. Sewing-machine	632,056	Aug. 29	4305	968, 969, 970	88	1630

Alphabetical list of patentees—Continued.

Name, residence, and invention.	No.	Date.	Monthly volume. Spec.	Monthly volume. Dr'g.	Official Gazette. Vol.	Official Gazette. Page.
Mills, James, and A. S. Smith, Cincinnati, Ohio. Metal drill	639,262	Dec. 19	1968	453, 454	89	2284
Mills, John H. T. (See Mills, Virgel H. and J. H. T.)						
Mills, Lyman A., executor. (See Durrenberger, George, assignor.)						
Mills, Mortimer B., Chicago, Ill. Coin-operated vending apparatus	631,119	Aug. 15	2602	587, 588	88	1267
Mills, Myron, *et al.* (See Kerry, Aaron, assignor.)						
Mills, Sarah R., San Francisco, Cal. Corset-fastener	630,389	Aug. 8	1269	277	88	986
Mills Sewing Machine Company. (See Mills, Francis A., assignor.)						
Mills, Thomas. (See Dun Lany and Mills.)						
Mills, Thomas. (See Stahle and Mills.)						
Mills, Virgel H. and J. H. T., Hubbard, Tex. Bicycle-frame	625,456	May 23	2735	622	87	1292
Mills, William H., assignor of one-half to J. L. Apple, A. E. Peirce, and E. Rood, Westfield, N. Y. Rail-joint	633,288	Sept. 19	2054	482	88	2138
Mills, William M., Dayton, Ohio. Turbine water-wheel	629,457	July 25	2795	650	88	601
Mills, William S., Bridgeport, Conn. Knitting-machine	624,065	May 2	208	45, 46	87	742
Millward, Harry, Birmingham, England. Acetylene-gas lamp	623,412	Apr. 18	2249	515	87	469
Milner, Thomas W., *et al.* (See Durnell, Cecil M., assignor.)						
Milnes, Benjamin, *et al.* (See Pannill, Henry, assignor.)						
Milot, Adolphe. (See Goudreau, Marcel, assignor.)						
Milton, John, Washington, D. C., assignor to American Locomotive Appliance Company, of Virginia. Steam-boiler furnace	631,528	Aug. 22	3341	759, 760	88	1433
Miltsch, Ernst, *et al.* (See Koch, Max, assignor.)						
Milwaukee Brass Manufacturing Company. (See Engel, August, assignor.)						
Milwaukee Harvester Company. (See Birkett, Edward J., assignor.)						
Milwaukee Manufacturing Company. (See Gillet, Joseph, assignor.)						
Mindheim, Max. (See Jasper, Wilhelm, assignor.)						
Miner, George S., *et al.* (See Sui, Ding Cie, assignor.)						
Miner, John, Detroit, Mich. Skate-runner	619,327	Feb. 14	997	225	86	1025
Miner, Robert J., Greenwich, Conn. Spacing attachment for type-writers	630,725	Aug. 8	1880	425	88	1102
Miner, William R., Columbus, Ohio. Automatic machine for tapping nuts	620,475	Feb. 28	3032	694	86	1453
Mingay, Frank H., Bridge of Weir, Scotland. Pneumatic tire	627,865	June 27	3070	671	87	2269
Minich, Peter, Independence, Mo. Connector for electrical conductors	620,715	Mar. 7	327	67	86	1565
Minier, Peter G., Huntington, W. Va. Freight-car door	635,074	Oct. 17	2023	478	89	437
Minneapolis Iron Store Company. (See Dittbenner, Hermann G., assignor.)						
Minnick, Silas H. (See Burns and Minnick.)						
Minnis, Henry M., Wylie, Tex. Medical shelf and indicator	617,689	Jan. 10	1570	355	86	324
Minnix, William H., Washington, D. C. Adjustable and portable flower-stand	635,940	Oct. 31	3689	852	89	786
Minor, Donald E., *et al.* (See O'Dell, Stephen E., assignor.)						
Minsker, Harry L. (See Deem and Minsker.)						
Minster, Frederick, Marshville, N. Y. Fire-escape	632,820	Sept. 12	1172	268	88	1955
Minthorn, Daniel, Watertown, N. Y. Railway-rail	627,435	June 20	2281	503	87	2098
Minturn, Joseph A., Indianapolis, Ind., assignor to W. E. Hoyt, New York, N. Y. Sad-iron	636,346	Nov. 7	193	43	89	960
Miranda, Abraham R., Boston, Mass. Combined check-receptacle and cash-drawer	617,760	Jan. 17	1709	384	86	371
Miranda, Abraham R., Boston, Mass. Antiseptic razor-cabinet	631,087	Aug. 15	2549	577	88	1257
Mirot, Adolphe, New York, N. Y. Lock	619,202	Feb. 7	770	167	86	962
Mischke, Karl. (See Guttmann, Faller, and Mischke.)						
Mischler, Gottlieb, Des Moines, Iowa. Harvester cutting apparatus	637,639	Nov. 21	3076	636	89	1612
Misell, David, assignor to American Electrical Novelty and Manufacturing Company, New York, N. Y. Electric device	617,592	Jan. 10	1390	315, 316	86	289
Miskimen, George W., Jr., Newcomerstown, Ohio. Hot-air furnace	633,466	Sept. 19	2387	561	88	2202
Miskin, Arthur R., Idaho Falls, Idaho. Spading-machine	639,752	Dec. 26	2895	667, 668	89	2489
Misner & Co., H. C., *et al.* (See Brown, Thomas T., assignor.)						
Mississippi Valley Electrical and Manufacturing Company. (See Farmer, John R., assignor.)						
Missong, Jacob, Höchst-on-the-Main, Germany. Coupling	619,203	Feb. 7	772	167	86	963
Missouri Railway Equipment Company. (See Pilcher, John A., assignor.)						
Mitcham, William, Oakville, Oreg. Fruit-drier	620,793	Mar. 7	474	99	86	1594
Mitchel, William Kneeland, assignor of one-half to A. Petrie, Milwaukee, Wis. Kitchen utensil	637,521	Nov. 21	2489	539, 540	89	1457
Mitchell, Albion L. F., Lynn, Mass., assignor, by mesne assignments, of one-half to New England Automatic Weighing Machine Company, Portland, Me. Weighing-machine	635,698	Oct. 24	3205	739	89	680
Mitchell, Albion L. F., Boston, and W. A. Rhodes, Medford, Mass.; said Rhodes assignor to New England Automatic Weighing Machine Company, Portland, Me. Feeding device for automatic weighing-machines	633,555	Sept. 19	2537	595	88	2230
Mitchell-Bissell Company. (See Morgan, William J., assignor.)						
Mitchell, Charles G., Pittsburg, Pa. Window-cleaner	624,843	May 9	1652	373	87	1044
Mitchell, Frank H. (See Dietrich, C. Joseph, assignor.)						
Mitchell, Frank H., assignor to W. H. Judson, New York, and S. V. Albro, White Plains, N. Y Belt-buckle	627,701	June 27	2780	609	87	2211
Mitchell, Frank P. (See Morawetz, John, assignor.)						
Mitchell, Frank W. (See Allison, Charles L., assignor.)						
Mitchell, Frederick E. (See Wilton, William, assignor.)						
Mitchell, Frederick J., New York, N. Y. Apparatus for delivering liquids	622,249	Apr. 4	84	19	87	20
Mitchell, George P., Ovid, Mich. Buggy-top	624,066	May 2	221	46	87	744
Mitchell, George W., Pennington, Tex. Frame for slates	632,821	Sept. 12	1173	268	88	1956
Mitchell, Harry, Neepawa, Canada. Sawbuck	628,015	July 4	106	22	88	22
Mitchell, James H., Petersham, H. G. Downton, and W. H. Nicholls, Corydon, New South Wales, assignors to said Downton and Nicholls. Apparatus for destruction of night-soil, &c	617,254	Jan. 3	745	173, 174	86	147
Mitchell, John, Aston, England. Tobacco-pipe	617,036	Jan. 3	336	79	86	66
Mitchell, John E. (See Parks, Dennis, assignor.)						
Mitchell, John E., Jackson, Mich. Grinding-mill	617,345	Jan. 10	934	215, 216	86	201
Mitchell, John W. (See Wright and Mitchell.)						
Mitchell, Josephine A., Lewiston, Me. Cleaning-pad for dentists' tools	639,595	Dec. 19	2590	595	89	2411
Mitchell, Josephine A., and F. A. Reynolds, Lewiston, Me. Tellurian	620,603	Mar. 7	95	18, 19	86	1521
Mitchell, Lebbeus H., Salt Lake City, Utah. Tank-bottom discharge-door	624,957	May 16	1855	416, 417	87	1101
Mitchell, Lebbeus H., Salt Lake City, Utah. Tank-bottom discharge-door	624,958	May 16	1857	417	87	1101
Mitchell, Lee E., Boston, Mass. Hydraulic air-compressor	637,144	Nov. 14	1777	381	89	1302
Mitchell, Loron, Augusta, Ga. Boring-tool	637,640	Nov. 21	3079	636	89	1613
Mitchell, Marcus L., St. Louis, Mo. Compressed-air water-elevator	629,866	Aug. 1	203	46, 47	88	760
Mitchell, Marcus L., St. Louis, Mo. Compressed-air pump	629,867	Aug. 1	208	47, 48	88	761

Alphabetical list of patentees—Continued.

Name, residence, and invention.	No.	Date.	Monthly volume.		Official Gazette.	
			Spec.	Drg.	Vol.	Page.
Mitchell, Martin A., *et al.* (See O'Brien, Arthur, assignor.)						
Mitchell, Michael, assignor of one-half to F. D. Marshall and J. Wells, Portland, Me. Last	638,736	Dec. 12	1047	235	89	2090
Mitchell, Morris R., Jonestown, Miss. Baling-press	636,160	Oct. 31	4134	946 947	89	876
Mitchell, Oliver R., assignor to R. Lockwood, Boston, Mass. Fountain-pen	634,013	Oct. 3	59	16	89	16
Mitchell, Robert J. C., Waterfoot, England. Roller	627,958	June 27	3236	710	87	2306
Mitchell, Thomas W., Omaha, Nebr. Metallic packing	631,088	Aug. 15	2550	577	88	1257
Mitchell, Timothy B. L., assignor to J. V. Campbell, Baltimore, Md. Sewer-trap	625,185	May 16	2244	510	87	1173
Mitchell, Walter C., Montezuma, Ind., assignor to W. P. Grath, St. Louis, Mo. Furnace for kilns or boilers	640,144	Dec. 26	3602	828	89	2632
Mitchell, Willis. (See Hedges, Edward, assignor.)						
Mithoff, Millard F., New Orleans, La. Form for hulls of vessels	630,254	Aug. 1	965	212	88	913
Mitiska, Louis, Evansville, Ind. Magazine heating-stove	625,186	May 16	2244	510 511	87	1173
Mitsch, Charles, Riverside, N. J. Storm-strip for doors	628,278	July 4	613	144	88	118
Mitschow, Charles. (See Ramey and Mitschow.)						
Mittinger, George E., Jr., assignor of three-fourths to F. J. Schweitzer, Cleveland, Ohio. Sheet-metal wheel	620,478	Feb. 28	3039	695	86	1455
Mittinger, George E., Jr., assignor of three-fourths to F. J. Schweitzer, Cleveland, Ohio. Sheet-metal trolley-wheel	620,479	Feb. 28	3040	695	86	1455
Mittinger, George E., Jr., assignor of three-fourths to F. J. Schweitzer, Cleveland, Ohio. Trolley-wheel	640,009	Dec. 26	3359	769	89	2581
Miyabara, Jiro, Tokio, Japan. Feed-water heater for water-tube boilers	633,699	Sept. 26	2836	659 660	88	2304
Mize, John J., Pelham, Ga. Stalk-cutter	621,534	Mar. 21	1848	410	86	1883
Mizner, Walter I., Detroit, Mich. Button	625,187	May 16	2247	511	87	1174
Mobley, John W., *et al.* (See Turner, Joseph P., assignor.)						
Moch, Eugene W., New York, N. Y. Artificial plume	630,909	Aug. 15	2209	503	88	1191
Mock, Charles H. (See Smead and Mock.)						
Mock, Charles H., and G. W. Smead, Pittsburg, Pa. Combination slip-joint	626,075	May 30	3917	890	87	1538
Mock, Charles H., and J. C. Mahaney, Pittsburg, Pa. Mat	632,533	Sept. 5	598	137	88	1826
Mock, Henry, New York, N. Y., assignor of one-half to L. W. Greiner, Baltimore, Md. Tap for beer or other kegs	619,978	Feb. 21	2171	493	86	1275
Mock, James B., Fort Wayne, Ind. Trolley-sleeter	618,577	Jan. 31	3281	728	86	701
Mocker, Edwin A., San Francisco, Cal. Spoon and leader box	625,893	May 30	3539	804	87	1467
Mocomble, Charles C. de, Paris, France. Friction driving mechanism	633,881	Sept. 26	3142	729	88	2366
Model, Carl W., Stuttgart, Germany. Machine for polishing knives	628,016	July 4	108	22	88	22
Modemann, George H., New York, N. Y. Artificial tooth and plate	626,287	June 6	123	32	87	1637
Modern Medicine Publishing Company. (See Kellogg, John H., assignor.)						
Moe, John J., *et al.* (See Elgen, Magnus P., assignor.)						
Moenke, Ernest F., Lesueur Centre, Minn. Combined churn and butter-worker	634,534	Oct. 10	1054	250 251	89	238
Moews, Paul, assignor to Michigan Optical Company, Detroit, Mich. Spectacles	618,118	Jan. 24	2412	538	86	522
Moffat, George, and E. J. Dobbins, Philadelphia, Pa. Light-projecting glass	637,145	Nov. 14	1779	381	89	1302
Moffatt, Ansil, assignor to Azote Powder Company, Indianapolis, Ind. Making nitro-explosives	627,436	June 20	2282	------	87	2098
Moffet, Oliver R., Joplin, Mo. Manufacture of soot-killers	639,859	Dec. 26	3092	------	89	2528
Moffett, Robert W. (See Kern, Gottlieb, assignor.)						
Moffitt, Charles F., Indianapolis, Ind. Wrapper for glass chimneys, bottles, &c	635,143	Oct. 17	2170	506	89	463
Mohlendor, Henry. (See Moreland, Charles E., assignor.)						
Mohn, Finn. (See Anderson and Mohn.)						
Mohun, Rowland, Leeds, England. Apparatus for drying leather	625,784	May 30	3320	754	87	1426
Moïse, Harmon D., assignor of one-half to A. China, Sumter, S. C. Axle-lubricator	635,571	Oct. 24	2985	684	89	636
Moise, Lionel H. (See Tietjen, George H., assignor.)						
Moissenet, Louis J., Cherbourg, France. Pneumatical apparatus for applying tools to surfaces of any solid bodies	633,882	Sept. 26	3143	729 730	88	2366
Mölbach, Oluf, Christiania, Norway. Apparatus for clearing channels of broken ice	620,344	Feb. 28	2827	644	86	1414
Moldenhauer, Frederich W., Oconomowoc, Wis. Creamery or cheese-factory appliance	624,234	May 2	540	115	87	802
Molet, Alfred, Buenos Ayres, Argentina, assignor, by mesne assignments, to J. C. Curtin, New York, N. Y. Acetylene-gas generator	632,193	Aug. 29	4582	1032	88	1684
Moline Plow Company. (See Lindgren, August, assignor.)						
Moline Pump Company. (See Westaway, Walter C., assignor.)						
Molitor, Aaron F., Lansing, Mich. Harrow	621,309	Mar. 14	1439	318	86	1793
Moll, John, Paterson, N. J. Cap-string fastener	622,250	Apr. 4	86	20	87	20
Molle, Louis, assignor of one-half to W. J. Flattery, Paris, France. Wood carpet or floor-covering	623,923	Apr. 25	3190	734	87	669
Möller, Jörgen J., Kiel, Germany. Telephone-circuit	637,884	Nov. 28	3541	742	89	1726
Möller, Jürgen F. (See Mackeprang, Petersen, and Möller.)						
Mollet-Fontaine, Charles J. F., and L. A. C. Letombe, Lille, France. Gas-motor	634,063	Oct. 3	134	34.35	89	31
Möllinger, Julius A., Nuremberg, Germany. Motor-wattmeter for three-phase alternating currents	637,473	Nov. 21	2400	520 521	89	1440
Molloy, James F., West Haven, Conn. Suspender-buckle	623,489	Apr. 18	2376	547	87	495
Molloy, James F., West Haven, Conn. Sheet-metal slide	634,014	Oct. 3	60	17	89	16
Molloy, John C., assignor of one-fourth to C. J. McWilliams, Cincinnati, Ohio. Printing-press	626,076	May 30	3918	890 891	87	1538
Moloney, Maurice T. (See Feeny, Edmund J., assignor.)						
Monaghan, John F. (See Mason, Frank J., assignor.)						
Monahan, Emma, administratrix. (See Monahan, Joseph J.)						
Monahan, Joseph J., deceased; E. Monahan, administratrix, Chicago, Ill. Pneumatic bicycle-saddle	633,142	Sept. 19	1779	419	88	2083
Monarch Manufacturing Company. (See Brady, James, assignor.)						
Monarch Manufacturing Company. (See Lindemeyr, Philip, assignor.)						
Monarch Manufacturing Company. (See Purinton and Reynolds, assignors.)						
Monarch Seeder Company. (See Fenn, William B., assignor.)						
Mond, Robert L., London, England. Heating liquids	629,520	July 25	2938	684	88	628
Monden, Eli, Rawlins, Wyo. Sack-holder	634,760	Oct. 10	1454	342	89	305
Mondeng, Charles, Minneapolis, Minn. Honey-box machine	629,167	July 18	2273	527 528	88	479
Monell, Ambrose, Homestead, Pa. Magnetic lifting device	621,267	Mar. 14	1357	301	86	1777
Monfort, Abram C., East Providence, R. I. Apparatus for automatically feeding disinfectants into water-closet cisterns, &c	634,649	Oct. 10	1247	296	89	265
Monier, Leon P., and G. Gloeckler, assignors to La Société Anonyme Francaise de L'Appareil Contrôleur, Paris, France. Apparatus for printing, counting, and issuing tickets	634,535	Oct. 10	1056	251 252 253	89	229

Alphabetical list of patentees—Continued.

Name, residence, and invention.	No.	Date.	Monthly volume.		Official Gazette.	
			Spec.	Dr'g.	Vol.	Page.
Monighan, John, and H. Brainard, Chicago, Ill.; said Brainard assignor to said Monighan. Piano-string loop-machine	630,910	Aug. 15	2210	503	88	1191
Monighan, John, and H. Brainard, Chicago, Ill.; said Brainard assignor to said Monighan. Piano-string-winding machine	634,266	Oct. 3	558	139	89	112
Monitor Button Company. (See Nageborn, Wilhelm E., assignor.)						
Monitor Manufacturing Company. (See Lundy, John C., assignor.)						
Monk, Henry, Cambridge, Mass. Shirt-bosom-ironing board	623,102	Apr. 11	1672	387	87	339
Monk, William H., Chester, England. Wheel-gearing	620,480	Feb. 28	3041	696	86	1455
Monks, John I. (See Heaphy, Leonard, assignor.)						
Monmouth Pottery Company. (See Melcher, Dennis, assignor.)						
Monnier, Edward, Detroit, Mich. Valve	632,502	Sept. 5	529	122	88	1812
Mönnig, Gustav, Berlin, Germany. Device for wringing or pressing out liquids	634,901	Oct. 17	1699	402	89	370
Monoline Composing Company. (See Bertram, William E., assignor.)						
Monroe, Chalmers L., Geneva, W. Va. Post-hole digger	634,902	Oct. 17	1700	402	89	371
Monroe, Frank W., La Grange, Ill. Lawn-sprinkler	635,337	Oct. 24	2500	581	89	542
Monroe, Henry, Abingdon, Ill. End-gate for wagons	634,951	Oct. 17	1779	422	89	386
Montague, Frank, *et al.* (See Clark, Frank R., assignor.)						
Montague Indicator and Letter Box Company. (See Hoagland and Richardson, assignors.)						
Montague, John L. C., assignor of one-half to K. Montague, Christiansburg, Va. Index-book	626,712	June 13	907	206	87	1808
Montague, Kyle. (See Montague, John L. C., assignor.)						
Montague, Patrick H., assignor of one-half to L. Bell, St. Louis, Mo. Air-compressor	631,994	Aug. 29	4189	942	88	1607
Monté, Louis. (See Thompson and Monté.)						
Monteer, Alexander N., Springfield, Mo. Car-roof	620,162	Feb. 28	2500	568	86	1353
Montfort, Frederick F., Yutan, Nebr. Rein-guard	630,390	Aug. 8	1270	277	88	986
Montgomerie, John C., Dalmore Stair, Scotland. Filter-press and cloth therefor	620,716	Mar. 7	329	67, 68	86	1565
Montgomery, Edwin H., assignor of one-half to E. B. Smith, St. Paul, Minn., and G. Smith, Waukegan, Ill. Rotary engine	638,349	Dec. 5	306	63, 64	89	1925
Montgomery, George R., Indianapolis, Ind. Harness attachment	631,858	Aug. 29	3954	884	88	1563
Montgomery, George W., Bellaire, Ohio, assignor of one-half to F. E. McCoy, Wheeling, W. Va. Cylinder-boring machine	619,830	Feb. 21	1906	435	86	1225
Montgomery, Henry S. and M., Philadelphia, Pa. Packing	636,052	Oct. 31	3908	897	89	831
Montgomery, James, Chicago, Ill. Iron folding bedstead	637,146	Nov. 14	1780	381, 382	89	1302
Montgomery, Marshall. (See Montgomery, Henry S. and M.)						
Montgomery-Moore, Alexander W., London, England. Apparatus for closing or opening bulkhead-doors	617,593	Jan. 10	1391	316	86	290
Monticolo, Attilio, Carrara, Italy. Rock-penetrating pulley for cable saws	621,268	Mar. 14	1359	302	86	1778
Montigny, E. J., *et al.* (See Klein, Alexander, assignor.)						
Montin, Henry de, assignor of one-half to Simultaneous Color Printing Syndicate, Limited, London, England. Polychrome-printing machine	628,719	July 11	1457	338, 339	88	303
Montluzin, Roch E. E. de, New Orleans, La. Paper-controlling attachment for type-writing machines	635,795	Oct. 31	3410	786	89	734
Monz, Frank J., New Haven, Conn., assignor to Sargent & Company, of Connecticut. Making wrought-metal hooks	624,067	May 2	223	47	87	744
Mood, Asbury F. (See Oliphant and Mood.)						
Mood, Asbury F., *et al.* (See Oliphant, Homer L., assignor.)						
Mood, John W., *et al.* (See Oliphant, Homer L., assignor.)						
Moody, Edward, assignor of one-half to D. M. Webb, Langston, Ala. Mail-pouch fastener	632,273	Sept. 5	133	28	88	1734
Moody, Henry T., assignor to Victor Manufacturing Company, Newburyport, Mass. Anchoring device for brick walls	620,481	Feb. 28	3042	696	86	1455
Moody, Henry T., assignor to Victor Manufacturing Company, Newburyport, Mass. Fastener for shutters or doors	623,286	Apr. 18	2023	465	87	424
Mooers, Charles F., *et al.* (See Simmons, Daniel, assignor.)						
Moon, J. W., *et al.* (See Babb, Christopher C., assignor.)						
Moon, Le Roy, Kansas City, Mo. Mop-wringer	621,269	Mar. 14	1359	302	86	1778
Moon, Orville P. (See Marbach, Herman L., assignor.)						
Moon, Orville P., Lorain, Ohio. Lighting device for hydrocarbon-burners	621,933	Mar. 28	2598	586	86	2044
Moon, Orville P., and H. L. Marbach, Lorain, Ohio. Hydrocarbon-burner	621,932	Mar. 28	2596	585, 586	86	2044
Moon, Orville P., Lorain, Ohio, and G. W. Graves, Rochester, N. Y. Gas-range	639,263	Dec. 19	1969	454	89	2285
Moon, Warren, assignor to Construction and Maintenance Company, Chicago, Ill. Speed-indicator	627,589	June 27	2567	566	87	2169
Moon, Warren, assignor to Construction and Maintenance Company, Chicago, Ill. Speed-indicator	630,299	Aug. 1	1058	230	88	930
Mooney, Herman O., Farmington, N. H. Metal binding-strip	623,681	Apr. 25	2723	624	87	580
Mooney, Squire V. (See Simmons, John P., assignor.)						
Mooney, Thomas J., assignor of one-half to E. T. Cody, New York, N. Y. Water-heater	621,690	Mar. 21	2132	475	86	1941
Mooney, Timothy, and C. Renaud, Fall River, Mass. Loom	621,691	Mar. 21	2134	475	86	1941
Mooney, William F., Bradford, Pa. Singletree attachment	634,952	Oct. 17	1780	422	89	386
Moore, Aaron T., Cadiz, Ohio. Checkrein-hook	626,288	June 6	125	32	87	1637
Moore, Addie B., *et al.*, executors. (See Cram, Elijah W.)						
Moore, Alfred F. (See Gottschalk, John W., assignor.)						
Moore, Bertrand C. (See Brown and Moore.)						
Moore, Charles D., administrator. (See Moore, Charles E.)						
Moore, Charles E., deceased, Newton, Mass.; C. D. Moore, administrator. Elevator	619,429	Feb. 14	1180	267	86	1058
Moore, Charles H., Yonkers, N. Y. Water closet	624,959	May 16	1858	417	87	1101
Moore, Charles J., Deer Creek, Minn. Cheese-curd aerator	634,761	Oct. 10	1455	342	89	306
Moore, Charles R., assignor of one-half to W. B. Heyer, Newport, Vt. Screen or storm door	620,604	Mar. 7	97	19	86	1521
Moore, Charles R., assignor to La France Fire Engine Company, Elmira, N. Y. Steam-boiler	620,947	Mar. 14	765	167	86	1663
Moore, Charles R., assignor to La France Fire Engine Company, Elmira, N. Y. Steam-boiler	620,948	Mar. 14	767	168	86	1663
Moore, Daniel H., assignor of one-half to J. H. Moore, St. Louis, Mo. Telephone writing-desk	627,866	June 27	3071	672	87	2270
Moore, Daniel M., Newark, N. J., assignor to Moore Electrical Company, New York, N. Y. Generating electric waves or vibrations	627,345	June 20	2090	461	87	2060
Moore, Daniel M., Newark, N. J., assignor to Moore Electrical Company, New York, N. Y. Cooling-jacket for vacuum circuit-interrupters	627,346	June 20	2091	462	87	2060
Moore, Davis L., Jr., assignor of two-fifths to J. E. Gensemer, Philadelphia, Pa. Circuit-breaker	637,474	Nov. 21	2403	521	89	1441
Moore, Delmer H., Greenville, Mich. Plow-point	632,274	Sept. 5	134	29	88	1734
Moore, Edwin F., Hyde Park, Mass. Collar-edge-ironing machine	627,129	June 20	1696	371, 372	87	1981

Alphabetical list of patentees—Continued.

Name, residence, and invention.	No.	Date.	Monthly volume. Spec.	Monthly volume. Dr'g.	Official Gazette. Vol.	Official Gazette. Page.
Moore, Elbert K., assignor to Crown Cork Company, Limited, London, England. Apparatus for filling bottles with liquids	638,467	Dec. 5	544	112	89	1971
Moore Electrical Company. (See Moore, Daniel M., assignor.)						
Moore, Elric L., *et al.*, executors. (See Moore, Thomas W.)						
Moore, Francis M. (See Libby, Rose A., assignor.)						
Moore, Frank. (See Dunn, William J., assignor.)						
Moore, Frank B., Portsmouth, Ohio. Window-shade fixture	639,423	Dec. 19	2290	529	89	2349
Moore, Frank L., assignor to E. E. Smith, Chicago Heights, Ill. Machine for forming wheel-hubs from tubular blanks	638,183	Nov. 28	4117	869, 870	89	1839
Moore, George N., *et al.*, executors. (See Moore, Thomas W.)						
Moore, George R., Jr., Kenton, Ohio. Bottle-stopper	624,363	May 2	758	170	87	845
Moore, Harry V., assignor tc F. & L. Kahn & Bros., Hamilton, Ohio. Mold for stove fire-pots	639,753	Dec. 26	2898	668	89	2490
Moore, Herman, Moundsville, W. Va. Corn-planter	634,736	Oct. 10	1416	334	89	299
Moore, Ila N., assignor to Union Steam Pump Company, Battle Creek, Mich. Steam-engine	624,233	May 2	537	115	87	801
Moore, Isaac, Toronto, Canada. Manifolding check-book	617,469	Jan. 10	1163	265	86	245
Moore, Isaac, Toronto, Canada. Manifolding sales-book	635,796	Oct. 31	3411	786	89	734
Moore, Isaac H., Hays, Ky. Box-fastener	633,269	Sept. 19	2022	475	88	2132
Moore, Jacob B., New York, N. Y. Calculating-machine	618,427	Jan. 31	3013	667, 668	86	650
Moore, James A., Central Falls, R. I. Adjustable foot-rest	634,582	Oct. 10	1143	271	89	245
Moore, James A., assignor of two-thirds to C. B. Downs and M. Burns, Grass Creek, Ind. Bag-fastener	622,651	Apr. 4	853	196	87	162
Moore, James A., G. Cotner, and T. J. Obenchain, Logansport, Ind.; said Moore and Obenchain assignors to said Cotner. Corn-harvester	624,668	May 9	1312	293, 294	87	977
Moore, James D., Atlantic, Iowa. Clasp for burial apparatus	633,208	Sept. 19	1898	447	88	2108
Moore, James F., Fairland, Ind. Ter. Riding-harrow	630,300	Aug. 1	1060	230, 231	88	931
Moore, James H. (See Moore, Daniel H., assignor.)						
Moore, James L., *et al.* (See Taylor, Robert W., Sr., assignor.)						
Moore, James T. (See Dorman, Jacob A., assignor.)						
Moore, Jehu C., New York, N. Y. Bicycle-brake	621,120	Mar. 14	1101	240	86	1726
Moore, Jesse D., Chicago, Ill. Bicycle-saddle	630,911	Aug. 15	2211	504	88	1192
Moore, John, Vancouver, Canada. Music-holder	637,641	Nov. 21	3080	636	89	1613
Moore, John A. (See Snyder, Cheesman, and Moore.)						
Moore, John N., *et al.*, executors. (See Moore, Thomas W.)						
Moore, John T., Yantis, assignor of two-thirds to K. T. Denton and R. S. Blythe, Sulphur Springs, Tex. Cotton-seed conveyer	636,414	Nov. 7	310	70	89	983
Moore, John W., and J. A. White, Philadelphia, Pa. Paper-making machine	620,548	Feb. 28	3181	728, 729	86	1482
Moore, Joseph P., assignor to Pattee Plow Company, Monmouth, Ill. Spring-trip for cultivators	620,717	Mar. 7	331	68	86	1566
Moore, La Fayette, Sherman, Tex. Pop-valve for kilns	635,572	Oct. 24	2986	685	89	636
Moore, Lydia E. (See Wilkins and Moore.)						
Moore, Mike. (See Dickerman and Moore.)						
Moore, Moses M., Chicago Heights, assignor to Q & C Company, Chicago, Ill. Drill	634,502	Oct. 10	995	238	89	217
Moore, Orlando W. (See Taylor and Moore.)						
Moore, Otho C., assignor of one-half to J. C. Meekins, Jr., Norfolk, Va. Double-acting spring-hinge	619,689	Feb. 14	1625	371	86	1145
Moore, Otho C., assignor of one-half to J. C. Meekins, Jr., Norfolk, Va. Double-acting spring-hinge	619,690	Feb. 14	1628	372	86	1145
Moore, Patrick, *et al.* (See Barr, Addison, assignor.)						
Moore, Pressley A. C., Woburn, Ill. Chimney-cowl	631,652	Aug. 22	3568	804	88	1478
Moore, Robert S., Oakland, Cal. Riveting-machine attachment	617,834	Jan. 17	1867	418	86	403
Moore, Robert S., Oakland, Cal. Holding device for riveters	622,251	Apr. 4	87	20	87	20
Moore, Robert S., Oakland, assignor to Risdon Iron and Locomotive Works, San Francisco, Cal. Base chamber or seat for hydraulic elevators	634,119	Oct. 3	253	63, 64	89	53
Moore, Stephen I., *et al.* (See Kinney, John L., assignor.)						
Moore, Stuart B., New York, N. Y. Stenciling-machine	632,136	Aug. 29	4465	1005	88	1662
Moore, Thomas W. (See Grout, Martin B., assignor.)						
Moore, Thomas W., deceased; E. L., G. N., and J. N. Moore, executors, assignors of three-fifths to J. G. Foster and M. Bruce, New York, N. Y. Steering apparatus for vessels	619,329	Feb. 14	999	226	86	1025
Moore, Virgil L., San Rafael, Cal. Bicycle luggage-carrier	624,669	May 9	1319	294	87	978
Moore, Walter E. (See King, Charles, assignor.)						
Moore, William C., and W. C. Elder, assignors of one-third to J. A. Van Houtin, Lexington, Ky. Pumping apparatus for deep wells	624,364	May 2	759	171	87	845
Moore, William F., Everett, and E. A. Fargo, Attleborough, Mass. Card-holder	638,257	Dec. 5	104	24	89	1886
Moore, William H., assignor of one-third to K. Z. Kidd, Deadwood, S. D. Prospector's pan	634,120	Oct. 3	255	64	89	54
Moore, William H., assignor to H. F. and G. Miller, Baltimore, Md. Sifter	629,802	Aug. 1	74	18	88	735
Moore, William N., Washington, D. C. Bicycle-saddle	619,204	Feb. 7	773	167, 168	86	963
Moore, William N., assignor of one-half to A. M. Lothrop, Washington, D. C. Suit-hanger	627,867	June 27	3072	672	87	2270
Moores, George W., New Orleans, La. Hame-tug buckle	622,509	Apr. 4	572	134	87	108
Moorhouse, William H. S., and D. L. Turner, Wellington, New Zealand. Bicycle-brake	617,037	Jan. 3	337	79, 80	86	66
Moran, Augusta. (See Moran, Catherine and A.)						
Moran, Catherine and A., Pittsburg, Pa. Street-railway switch	629,265	July 18	2434	563	88	508
Moran, Frank, and J. Reardon, Holyoke, Mass. Internal dandy-roll wiping device	627,305	June 20	2006	441	87	2044
Moran, James, New York, N. Y. Convertible couch	638,978	Dec. 12	1463	335, 336	89	2172
Moran, John T., assignor of one-half to W. Lawton, Thorndyke, Mass. Plumber's holder	638,737	Dec. 12	1049	235	89	2090
Moran, Patrick J., Memphis, Tenn. Waterworks system	634,015	Oct. 3	62	17	89	16
Moran, Patrick W. (See Schroeder, Frederick W., assignor.)						
Morang, Hanibal C., Lynn, Mass. Case for bicycle-frames	636,053	Oct. 31	3909	897	89	831
Morath, Jocob J. A., Clayton, Mo. Agricultural machine	635,501	Oct. 24	2858	652, 653	89	612
Morawetz, John, Castella, assignor of one-half to F. P. Mitchell, Redding, Cal. Folding stove	620,345	Feb. 28	2828	644, 645	86	1415
Morch, John H. (See Weeks, John, assignor.)						
Morck, William, Oakland, Cal. Car-fender	635,445	Oct. 24	2769	633	89	595
Morden, George. (See Young and Morden.)						
Morden, Lucena M., Portland, Oreg. Separate-leaf book	625,050	May 16	2011	453	87	1131
Mordey, William M., Loughborough, England, assignor of one-half to J. M. Orford, Boston, Mass. Electric safety fuse or cut-out	622,511	Apr. 4	574	134	87	108

Alphabetical list of patentees—Continued.

Name, residence, and invention.	No.	Date.	Monthly volume.		Official Gazette.	
			Spec.	Dr'g.	Vol.	Page.
Moreau, Eugène. (See Allen and Moreau.)						
Moreau, Eugène, New York, N. Y., assignor to Electro Lamp Company, of West Virginia. Acetylene-gas-generating lamp	624,068	May 2	224	47	87	744
Moreau, Eugène, assignor to Electro Lamp Company, New York, N. Y. Acetylene-gas-generating lamp	625,346	May 23	2547	579	87	1256
Moreau, Marie J. (See Devilliers, Villiers C., assignor.)						
Moreau, Samuel, Ironwood, Mich. Amalgamating-machine	628,108	July 4	291	68	88	57
Morehead, Presley W., New Market, Va. Thill-coupling	628,952	July 18	1885	437	88	404
Morel, Jules D., Roubaix, France. Machine for cleaning and carding wool, cotton, &c.	619,979	Feb. 21	2172	493 494 495	86	1276
Morel, Jules D., Roubaix, France. Machine for cleaning raw filamentous substances	638,849	Dec. 12	1230	277	89	2125
Moreland, Charles E., assignor of one-half to H. Mohlendor, Ceredo, W. Va. Valve	618,709	Jan. 31	3516	785	86	746
Morell, Alfred, Millbury, assignor to Crompton & Knowles Loom Works, Worcester, Mass. Loom	626,499	June 6	525	121	87	1715
Moreno, Mason S. (See Branch, Hayden W., assignor.)						
Morenus, William H., Lake View, Iowa, assignor to F. C. Austin, Chicago, Ill. Grading and ditching machine	631,578	Aug. 22	3451	780	88	1455
Morenus, William H., Lake View, Ind., assignor to F. C. Austin, Chicago, Ill. Excavating and wagon-loading machine	636,347	Nov. 7	195	43,44	89	960
Moreton, George W., assignor to Betts Machine Company, Wilmington, Del. Boring and turning mill	629,042	July 18	2040	475	88	435
Morey, Arthur D., Owyhee, Oreg. Elevator	632,194	Aug. 29	4583	1032	88	1685
Morfoot, Benjamin W., Chicago, Ill., assignor of one-half to H. Ziegfeld, Mount Vernon, N. Y. Die for cutting and shaping can-heads	619,259	Feb. 7	868	190 191	86	982
Morfoot, Benjamin W., Chicago, Ill., assignor of one-half to H. Ziegfeld, Mount Vernon, N. Y. Key-opening can	621,758	Mar. 21	2266	511	86	1966
Morford, Edwin A. (See Lancaster, Charles F., assignor.)						
Morgan, Alfred W. and T. E., Burlington, Iowa. Wire-fence stay	631,936	Aug. 29	4084	916	88	1587
Morgan, Charles, Freeport, Ill. Lemon-squeezer	630,391	Aug. 8	1270	277 278	88	987
Morgan, Charles, assignor to Arcade Manufacturing Company, Freeport, Ill. Cork-puller	620,949	Mar. 14	768	168	86	1663
Morgan, Charles H. (See Murphy and Rowe, assignors.)						
Morgan, Charles H., assignor to Morgan Construction Company, Worcester, Mass. Furnace for heating ingots	632,020	Aug. 29	4239	954	88	1618
Morgan, Charles W. (See Tousley, Edgar M., assignor.)						
Morgan Construction Company. (See Edwards, Victor E., assignor.)						
Morgan Construction Company. (See Edwards and Morgan, assignors.)						
Morgan Construction Company. (See Morgan, Charles H., assignor.)						
Morgan, David, Bristol, England. Washing-machine	620,794	Mar. 7	476	99	86	1595
Morgan, Edmund C., Chicago, Ill., assignor, by mesne assignments, to Westinghouse Electric and Manufacturing Company, Pittsburg, Pa. Electric-motor frame	634,903	Oct. 17	1701	402	89	371
Morgan, Edward, Columbus, Ohio. Sled	634,267	Oct. 3	561	139	89	113
Morgan, Edwin H. (See Tilden, Frank W., assignor.)						
Morgan Engineering Company. (See Taylor, Clarence L., assignor.)						
Morgan Envelope Company. (See Hicks, Oliver H., assignor.)						
Morgan Envelope Company. (See Kidder, Wellington P., assignor.)						
Morgan, Ernest L., Davis' Mills, Va. Planting attachment for plows	619,597	Feb. 14	1442	332 333	86	1109
Morgan, Frank E., New York, and F. A. Lane, Poughkeepsie, assignors to D. H. Burrell & Co., Little Falls, N. Y. Prepayment vending apparatus	637,401	Nov. 21	2277	490 491	89	1416
Morgan, Frederick L., Port Washington, Wis. Chair or stool iron	627,516	June 27	2427	534	87	2142
Morgan, Frederick L., Port Washington, Wis. Adjustable support	627,517	June 27	2430	534	87	2143
Morgan, George W., Dawson, Canada. Windlass	631,653	Aug. 22	3569	804 805	88	1478
Morgan & Hamilton Company. (See Ormsby, William P., assignor.)						
Morgan, Henry W., Rochester, N. Y. Nailing-machine	619,901	Feb. 21	2046	464	86	1252
Morgan, Henry W., Rochester, N. Y. Chuck for nailing-machines	621,692	Mar. 21	2135	475	86	1942
Morgan, Jacque L., Kansas City, Mo., assignor to General Electric Company, of New York. Outlet-bushing	638,350	Dec. 5	308	64	89	1925
Morgan, James B., Davenport, Iowa. Animal-trap	628,831	July 11	1662	386	88	345
Morgan, Jennie R., Placerville, Cal. Cooking utensil	625,586	May 23	2956	672	87	1336
Morgan, John B., Quincy, assignor to J. C. Kimball, Suffolk county, Mass. Steam-trap	617,493	Jan. 10	1200	273	86	253
Morgan, John F., Poughkeepsie, N. Y. Gearing	619,774	Feb. 21	1800	412	86	1204
Morgan, John T. (See Mabry and Morgan.)						
Morgan, John W. (See Morgan, William G. and J. W.)						
Morgan, Joseph N., Crawfordsville, Ind. Machine for gathering and destroying bugs	619,330	Feb. 14	1000	226	86	1025
Morgan, Lingue S., Kendall, Kans. Wire fence	620,950	Mar. 14	771	169	86	1664
Morgan, Loton O., Williamsport, Ohio. Steam-boiler	623,170	Apr. 18	1813	415	87	381
Morgan, Paul B. (See Edwards and Morgan.)						
Morgan, Reuben D., Cleveland, Ohio. Wire fence	625,936	May 30	3612	821	87	1481
Morgan, Russell T., Maysville, assignor of one-half to W. F. Head, Dry Pond, Ga. Cultivator-plow	633,025	Sept. 12	1525	355	88	2022
Morgan, Thomas, assignor to C. M. Boscowitz, New York, N. Y. Paper box	627,868	June 27	3073	672	87	2270
Morgan, Thomas, assignor to C. M. Boscowitz, New York, N. Y. Folding paper box	637,642	Nov. 21	3082	637	89	1613
Morgan, Thomas E. (See Morgan, Alfred W. and T. E.)						
Morgan, Thomas R., Sr., and W. H., Alliance, Ohio. Overhead traveling crane	628,832	July 11	1663	386 387 388	88	345
Morgan, Waitman M., Kansas City, Mo. Suction and force apparatus for fluids	625,785	May 30	3321	754 755	87	1426
Morgan, William A., Chucky City, Tenn. Grain-drill	639,754	Dec. 26	2901	668 669	89	2490
Morgan, William E., Metropolis, Ill. Whiffletree-hook	618,960	Feb. 7	298	64	86	869
Morgan, William G. and J. W., Hope Church, Pa. Bill-file	625,692	May 23	3130	711	87	1370
Morgan, William H. (See Morgan, Thomas R., Sr., and W. H.)						
Morgan, William H. (See Taylor, Clarence L., assignor.)						
Morgan, William J., Paterson, N. J., assignor to Mitchell-Bissell Company, New York, N. Y. Hook for drop-wires of spinning or other textile machines	639,264	Dec. 19	1971	455	89	2285
Morgan, William T., Somerville, assignor of one-half to W. H. Feeney, Boston, Mass. Device for engaging ends of running-planks	631,900	Aug. 29	4015	899	88	1574
Morgan & Wright. (See Herrick, William, assignor.)						
Morgan & Wright. (See Holmes, William, assignor.)						
Morgan & Wright. (See McCaslin, Elton W., assignor.)						
Morgan & Wright. (See Shaw, Al B., assignor.)						
Morgan & Wright. (See Smith, George A., assignor.)						
Morganstern, Fredrick, Allegheny, Pa. Overshoe-holder	636,545	Nov. 7	552	122	89	1032

Alphabetical list of patentees—Continued.

Name, residence, and invention.	No.	Date.	Monthly volume.		Official Gazette.	
			Spec.	Dr'g.	Vol.	Page.
Moriarty, Thomas J., assignor of one-half to J. T. Reagan, Newport, R. I. Device for locating sunken articles	637,147	Nov. 14	1781	382	89	1303
Morison, Alexander J., London, England. Cycle-saddle and support	630,912	Aug. 15	2212	504	88	1192
Morison, Donald B. (See Weigbton and Morison.)						
Morison, Robert R. (See Waterman and Morison.)						
Moritz, Adolpb W. (See Moritz, Henry O. and A. W.)						
Moritz, Henry O. and A. W., New York, N. Y. Gravity-coaster	634,669	Oct. 10	1287	303, 304	89	274
Morlan, William W. (See Knight, Curtis F., assignor.)						
Morlet, Charles, Locle, Switzerland. Watch-barrel	617,115	Jan. 3	491	117	86	97
Morlet, Charles, Locle, Switzerland. Watcb-barrel	629,907	Aug. 1	298	67	88	778
Morley, Fernando. (See Morrill, Roland, assignor.)						
Morley Finisbing Machine Company. (See Howe, Oliver I., assignor.)						
Morley, John M. (See Mershon and Morley.)						
Morley, Walter, and A. M. Patrick, Salem, Oreg.; said Patrick assignor to said Morley. Fruit-grader	620,045	Feb. 21	2298	521, 522	86	1299
Morlock, Jobn, Guelpb, Canada. Wire cable	631,859	Aug. 29	3954	884	88	1563
Morlok, William. (See Lippincott and Morlok.)						
Morneau, Frank P., Princeton, Minn. Circular-lamp-wick trimmer	622,510	Apr. 4	573	134	87	108
Mornenent & Wright. (See Brown, John E., assignor.)						
Moro, William L., Love's Lake, La. Vebicle-wheel	620,482	Feb. 28	3043	696	86	1456
Morpetb, John W., Muskegon, Mich. Curtain-roller	636,443	Nov. 7	358	81	89	993
Morrill, Frank T. (See Graves, John, assignor.)						
Morrill, Osgood. (See Wells and Morrill.)						
Morrill, Osgood, and H. P. Wells, Amesbury, Mass. Elliptic spring	627,869	June 27	3074	673	87	2270
Morrill, Osgood, and H. P. Wells, Amesbury, Mass. Means for uniting parts of vehicles	628,891	July 11	1762	412	88	363
Morrill, Roland, assignor of one-half to F. Morley, Benton Harbor, Mich. Atomizer	628,251	July 4	553	133	88	109
Morris, A. Fred, *et al.* (See Burns, Clem G., assignor.)						
Morris, Abraham R., Philadelphia, Pa. Tablet-forming machine	625,347	May 23	2548	579	87	1256
Morris, Abrabam R., Philadelphia, Pa. Tablet-forming machine	625,348	May 23	2550	580	87	1257
Morris, Abrabam R., assignor to H. K. Mulford, Pbiladelphia, Pa. Tablet-macbine	617,255	Jan. 3	748	174, 175	86	147
Morris, Albert E., *et al.* (See Snowdon, Archibald G., assignor.)						
Morris, Albert E., assignor to J. Michaels, Montreal, Canada. Cigar-band	617,295	Jan. 3	826	192	86	163
Morris, Cbarles E., administrator. (See Morris, James E.)						
Morris, Cornelius S., Moline, Ill. Computing-scale	617,903	Jan. 17	2008	447, 448	86	430
Morris, D. E., *et al.* (See Mason, William R., assignor.)						
Morris, Daniel E., Willette, Tenn. Cradle	634,147	Oct. 3	307	78	89	65
Morris, Edwin A., Hayes, Ill. Stalk and hay rake	620,483	Feb. 28	3045	697	86	1456
Morris, Francis S., London, England. Spike or nail	629,266	July 18	2435	564	88	508
Morris, Fulton R., Milwaukee, Wis., assignor of one-half to Armour & Co., Chicago, Ill. Drying-kiln	630,392	Aug. 8	1272	278	88	987
Morris, George W., Aroma, Ind. Rein-guide	619,205	Feb. 7	774	168	86	963
Morris, George W., assignor to J. I. Case Threshing Macbine Company, Racine, Wis. Water-heater	621,693	Mar. 21	2136	476	86	1942
Morris, George W., assignor to J. I. Case Tbresbing Machine Company, Racine, Wis. Traction-engine	626,077	May 30	3928	891, 892	87	1539
Morris, Henry B., Micbigan City, Ind. Machine for making cbains	627,870	June 27	3076	673, 674	87	2271
Morris, James A., Ayrshire, Iowa. Power-hammer	638,058	Nov. 28	3859	811	89	1788
Morris, James E., deceased; C. E. Morris, administrator, assignor to T. Wilby, Chester, Pa. Electric-arc lamp	630,513	Aug. 8	1514	338, 339	88	1031
Morris, John H., Maquoketa, Iowa. Cream-separator	631,875	Aug. 29	3982	890	88	1568
Morris, John H., Fremont, Nebr. Permutation-lock	632,735	Sept. 12	1005	234	88	1920
Morris, John O., Richmond, Va. Generator for steam-boiler furnaces	631,120	Aug. 15	2604	588	88	1267
Morris, John O., Richmond, Va. Steam-boiler furnace	634,829	Oct. 10	1565	368	89	328
Morris, John O., assignor of two-fifths to J. C. Deaton, Jr., Richmond, Va. Generator	617,594	Jan. 10	1394	316	86	290
Morris, John P., Cheyenne, Wyo. Pillow-holder	629,199	July 18	2325	539	88	489
Morris, John R., Jewell City, Kans. Pliers	620,662	Mar. 7	227	47	86	1546
Morris, John T. (See Jones, Samuel L., assignor.)						
Morris, Josepb L., Lawrence, Kans. Refrigerator-car	634,583	Oct. 10	1144	271, 272	89	245
Morris, Thomas. (See Owen, Smith, assignor.)						
Morris, Thomas W., Chicago, Ill. Vehicle-wheel tire	633,026	Sept. 12	1526	355	88	2023
Morris, Thomas W., assignor to B. D. Knickerbocker, Chicago, Ill. Method of and machine for producing hollow rubber articles	638,738	Dec. 12	1050	235	89	2090
Morris, W. M., *et al.* (See Rost, Clarence, assignor.)						
Morris, William, Cleveland, Obio. Bicycle brake and coaster	639,265	Dec. 19	1972	455	89	2285
Morris, William B., deceased, (J. Banks, administrator,) and G. L. Norrman, Atlanta, Ga. Smoke-consumer	637,885	Nov. 28	3542	743	89	1727
Morris, William L., Bartow, Fla. Tree or plant protector	633,528	Sept. 19	2486	585	88	2221
Morris, William L., assignor of one-half to N. Bellers, Bernie, Mo. Churn-motor	622,652	Apr. 4	854	196	87	162
Morris, William L., Cleveland, Obio, assignor to Austin Cartridge Company, of Ohio. Cartridge-loading machine	639,080	Dec. 12	1627	374, 375, 376, 377, 378	89	2203
Morris, William L., assignor to Austin Cartridge Company, Cleveland, Ohio. Tripping mechanism	639,081	Dec. 12	1635	378	89	2204
Morris, William R., Pine Bluff, Ark. Saw-sharpening machine	622,964	Apr. 11	1407	323, 324	87	287
Morrisey, William, Topeka, Kans. Guard-rail	635,144	Oct. 17	2171	506	89	463
Morrison, Alexander, *et al.* (See Houston, John B., assignor.)						
Morrison, Andrew, Pittsburg, Pa. Tie-plate	622,965	Apr. 11	1408	324	87	287
Morrison, Andrew, Pittsburg, Pa. Rolling flanged plates	622,966	Apr. 11	1409	324	87	287
Morrison, Andrew, Pittsburg, Pa. Rolling flanged bars	622,967	Apr. 11	1410	325	87	288
Morrison, Archey, *et al.* (See McQuiston, David P., assignor.)						
Morrison, Chester A., Manitou, Colo. Windlass	639,596	Dec. 19	2591	595	89	2411
Morrison, Cornelius. (See Studle, Charley A., assignor.)						
Morrison, Edgar H., assignor of one-half to J. A. Henderson, Danville, Va. Coffee-pot	623,490	Apr. 18	2377	547	87	496
Morrison, Edwin, assignor to Franklin Sugar Refining Company, Philadelpbia, Pa. Hoisting apparatus for piers	636,161	Oct. 31	4136	947	89	876
Morrison, Floyd E., Elk Lick, Pa. Cover for cooking vessels	637,643	Nov. 21	3083	637	89	1614
Morrison, Francis, Philadelphia, Pa. Bottle-stopper attachment	634,697	Oct. 10	1337	316	89	284
Morrison, Francis, assignor of five-eighths to D. Hastings and E. Dillon, Philadelphia, Pa. Corset-stiffener	619,331	Feb. 14	1001	226	86	1026

Alphabetical list of patentees—Continued.

Name, residence, and invention.	No.	Date.	Monthly volume. Spec.	Monthly volume. Dr'g.	Official Gazette. Vol.	Official Gazette. Page.
Morrison, Harry, London, England. Road-breaking machine	638,739	Dec. 12	1052	236	89	2091
Morrison, Horace T., Atlanta, Ga. Acetylene-gas generator	630,066	Aug. 1	651	141	88	852
Morrison, James, Philadelphia, Pa. Spray apparatus	619,903	Feb. 21	2049	465	86	1253
Morrison, James H., Dayton, Ohio. Detachable hinge	616,952	Jan. 3	166	38	86	33
Morrison, John, Pittsburg, Pa. Plumb rule and level	618,254	Jan. 24	2672	592	86	570
Morrison, John, Dubuque, Iowa. Water-feed apparatus	636,681	Nov. 7	816	180	89	1088
Morrison, John T., Minneapolis, Minn. Automatic tank-valve	638,740	Dec. 12	1053	236	89	2091
Morrison, John U. G., and A. A. Kregnes, Hooker, S. D. Cultivator	620,046	Feb. 21	2300	522	86	1299
Morrison, John W. (See Fellows, John H., assignor.)						
Morrison, Seymour, and T. L. Springer, McCordsville, Ind. Telephone-switchboard	638,521	Dec. 5	634	131, 132	89	1987
Morrison, William, Philadelphia, Pa., assignor to Keystone Umbrella Rod Company, of Pennsylvania. Umbrella-stick	619,831	Feb. 21	1908	435	86	1226
Morrison, William A., Boston, Mass. Applicator	634,363	Oct. 3	749	179	89	150
Morrison, William J., and J. C. Wharton, Nashville, Tenn. Candy-machine	618,428	Jan. 31	3018	668	86	651
Morriss, Johnson, Marshall, Tex. Device for teaching music	632,137	Aug. 29	4468	1005, 1006	88	1663
Morrissey, John D., Worcester, Mass. Clothes-drier	619,902	Feb. 21	2048	464	86	1253
Morrissey, Thomas F., Newark, N. J. Button-finishing machine	634,306	Oct. 3	630	154, 155, 156	89	126
Morrow, Charles B., assignor to S. Heineman & Co., Chicago, Ill. Jointed figure	634,503	Oct. 10	997	238	89	217
Morrow, J. T. (See Foreaker, John C., assignor.)						
Morrow, John H., Chicago, Ill. Heel-rubber	623,803	Apr. 25	2963	677	87	626
Morrow, John H., Chicago, Ill. Heel-rubber	630,726	Aug. 8	1882	425	88	1102
Morrow, John T., Great Falls, Mont. Cleaner for commutators	618,992	Feb. 7	385	80, 81	86	885
Morrow, John T., Great Falls, Mont. Anode	621,121	Mar. 14	1102	240	86	1726
Morrow, John T., Great Falls, Mont. Apparatus for electrolysis	629,043	July 18	2042	475, 476	88	435
Morrow, John T., Great Falls, Mont. Mold for casting anodes	631,471	Aug. 22	3239	734	88	1412
Morrow, Mark, Barnard, Mo. Railway-indicator	626,467	June 6	460	108	87	1703
Morrow, Scott A., and J. C. Halcom, Commerce, Tex. Sash-holder	633,467	Sept. 19	2388	562	88	2203
Morrow, Stanley J., Chicago, Ill. Rendering writing ineradicable	630,255	Aug. 1	966	------	88	913
Morrow, William C. (See Hervey, Walter D., assignor.)						
Morse, Arthur J., assignor to Morse-Keefer Cycle Supply Company, Salisbury, Conn. Slotting and slabbing machine	628,410	July 4	855	201, 202	88	164
Morse, Charles H., Jr., Chicago, Ill., and F. G. Hobart, Beloit, Wis., assignors to Fairbanks, Morse & Company, Chicago, Ill. Gas-engine igniter	630,624	Aug. 8	1725	386	88	1071
Morse, Charles M. (See Clark, Robert W., assignor.)						
Morse, Everett F., Trumansburg, N. Y. Bicycle	638,979	Dec. 12	1466	336	89	2173
Morse, George W., assignor of one-half to J. H. Croskey, Pittsburg, Pa. Wheel	636,274	Nov. 7	88	21	89	940
Morse, Horace T., Cleveland, Ohio, assignor of one-half to W. Yale, Minneapolis, Minn. Ball-grinding machine	620,851	Mar. 7	585	127	86	1617
Morse, James E. (See Crocker and Morse.)						
Morse, James T., Rippey, Iowa. Churn	625,119	May 16	2139	485, 486	87	1153
Morse-Keefer Cycle Supply Company. (See Morse, Arthur J., assignor.)						
Morse, Leonidas W. (See Lane and Doney, assignors.)						
Morse, Myron E., Everett, assignor of three-fifths to F. W. Lowe and C. C. Blaney, Boston, Mass. Automatic street-railway switch	619,980	Feb. 21	2174	495	86	1276
Morse, Robert B., assignor of one-half to T. M. Morse, Southport, N. C. Tobacco-pipe	631,318	Aug. 22	2962	669	88	1357
Morse & Son, A. J. (See Crawford, William K., assignor.)						
Morse, T. M. (See Morse, Robert B., assignor.)						
Morse Twist Drill and Machine Company. (See McGregor, John A., assignor.)						
Morse, Williams & Company. (See Bates, Francis A., assignor.)						
Morser, Clark H., *et al.* (See Walter, John, assignor.)						
Morss, Leonidas W. (See Lane and Doney, assignors.)						
Morstein, Oscar von, Schoenberg, Germany. Device for electrically lighting or extinguishing gas-jets	629,803	Aug. 1	74	19	88	735
Morten, Edward W., Farmersville, Tex. Grain-door for freight-cars	639,597	Dec. 19	2593	595	89	2411
Morton, Ephraim S., assignor of one-half to W. H. Cary, Brockton, Mass. Hinged last	636,348	Nov. 7	203	44	89	962
Morton, Frederic C., Chelsea, Mass. Advertising apparatus	639,598	Dec. 19	2594	595, 596, 597	89	2412
Morton, George B., Memphis, Tenn. Device for opening or closing swinging gates	629,200	July 18	2328	540	88	489
Morton, Henry E. (See Morton, Matthew and H. E.)						
Morton, James E., assignor to L. M. Wright, South Norwalk, Conn. Device for cleansing hatters' kettles	617,296	Jan. 3	827	192	86	163
Morton, John and W. U., Glasgow, Scotland. Sewing-machine for making eyelets	626,815	June 13	1096	246	87	1844
Morton, Matthew and H. E., Muskegon, Mich. Key-seat-cutting machine	618,894	Feb. 7	132	29	86	830
Morton, William U. (See Morton, John and W. U.)						
Mortson, George. (See Claussen and Mortson.)						
Moseley, George W., Philmont, N. Y. Machine for dyeing, &c	639,266	Dec. 19	1975	456	89	2286
Moser, Edward R., Naperville, Ill. Carpet-stretcher	634,471	Oct. 10	945	225	89	206
Moser, Johannes. (See Schmidtlein, Constantin, assignor.)						
Moser, Obadiah Y., and J. W. Dornseif, Worden, Ill. Hat-fastener	625,587	May 23	2957	672	87	1337
Moser, Robert J., and H. W. Phipps, assignors to General Automatic Delivery Company, Limited, London, England. Coin-freed delivery mechanism	624,844	May 9	1654	373, 374	87	1044
Moses, D. K., *et al.* (See Deadman, John F., assignor.)						
Mosher, Eliza M., Ann Arbor, Mich. Desk	628,346	July 4	751	173	88	144
Mosher, John A., Chicago, Ill. Bicycle-lamp bracket	624,845	May 9	1655	374	87	1044
Mosher, John A., Chicago, Ill., assignor to Adams & Westlake Company, of Illinois. Photographic shutter	618,799	Jan. 31	3672	823	86	778
Mosher, John A., Chicago, Ill., assignor to Adams & Westlake Company, of Illinois. Magazine-camera	631,963	Aug. 29	4128	929, 930	88	1595
Mosher, John A., assignor to Adams & Westlake Company, Chicago, Ill. Acetylene-gas lamp	633,655	Sept. 26	2750	640	88	2286
Mosher, John A., assignor to Adams & Westlake Company, Chicago, Ill. Acetylene-gas-generating lamp	633,656	Sept. 26	2753	640	88	2286
Mosher, Samuel E., Chillicothe, Ohio. Electric lighting device	625,786	May 30	3325	755	87	1426
Mosher, Samuel E., Chillicothe, Ohio. Electric lighting device	625,787	May 30	3327	755, 756	87	1427
Mosher, Samuel E., Chillicothe, Ohio. Electric lighting device	625,788	May 30	3329	756	87	1427
Mosier, Elias W., Lima, Ohio. Ironing-machine for turning and ironing lay-down collars and cuffs	621,694	Mar. 21	2137	476	86	1942
Moskowitz, Jacob, Chicago, Ill. Vaporizer for hydrocarbon-lamps	630,549	Aug. 8	1584	353	88	1045

Alphabetical list of patentees—Continued.

Name, residence, and invention.	No.	Date.	Monthly volume.		Official Gazette.	
			Spec.	Dr'g.	Vol.	Page.
Moskowitz, Morris, Newark, N. J., assignor to National Electric Car Lighting Company, of West Virginia. Self-regulating dynamo	626,713	June 13	908	206	87	1808
Moskowitz, Morris, Newark, N. J., assignor to National Electric Car Lighting Company, of West Virginia. Means for generating electricity from car-wheel axles	632,421	Sept. 5	377	86	88	1781
Moskowitz, Morris, Newark, N. J., assignor to National Electric Car Lighting Company, of West Virginia. Means for generating electricity from car-wheel axles	635,446	Oct. 24	2770	633 634	89	595
Mosler, Moses, Cincinnati, Ohio. Safe-boltwork	621,122	Mar. 14	1103	240	86	1727
Mosler, Moses, New York, N. Y. Manipulating attachment for combination-locks	639,599	Dec. 19	2597	597	89	2412
Moss, John H., Commerce, Tex. Stalk-cutter	621,695	Mar. 21	2139	476	86	1942
Moss, Lincoln, assignor of one-half to W. S. Block, New York, N. Y. Lamp-fixture	619,598	Feb. 14	1445	333	86	1110
Moss, Lincoln, assignor of one-half to W. S. Block, New York, N. Y. Welsbach or similar incandescent light	619,599	Feb. 14	1447	333	86	1110
Moss, Nathaniel P. (See Van der Cruyssen, Henri A., assignor.)						
Moss, Ransom E. (See Akers, Earl C., assignor.)						
Moss, Thomas F., La Crosse, Wis. Syringe	619,981	Feb. 21	2176	495	86	1276
Moss, Thomas F., assignor to W. B. Tscharner, La Crosse, Wis. Music-leaf holder and turner	628,411	July 4	858	202	88	165
Moss, William T., Walsall, Pa. Mining-machine	639,267	Dec. 19	1977	456	89	2287
Mossberg, Frank, Attleborough, Mass., and C. A. Brink, Providence, R. I. Bicycle alarm-bell	637,274	Nov. 21	2025	434	89	1364
Mossberg, Frank, and C. A. Brink, Providence, R. I.; said Brink assignor to said Mossberg. Bicycle alarm-bell	622,159	Mar. 28	3019	683	86	2129
Mossgrove, Ross, Jr., assignor of one-half to E. M. McKee, Steubenville, Ohio. Mold for manufacturing hollow glassware	632,057	Aug. 29	4310	970	88	1631
Mossgrove, Ross, Jr., assignor of one-half to E. M. McKee, Steubenville, Ohio. Incandescent-electric-light bulb	632,058	Aug. 29	4314	970	88	1632
Mote, Omar C., West Milton, Ohio. Device for hanging tobacco	629,267	July 18	2437	564	88	509
Motheral, William B., North McGregor, Iowa. Vessel	620,163	Feb. 28	2501	568 569	86	1353
Motheral, William B., North McGregor, Iowa. Paddle-wheel	633,529	Sept. 19	2487	585	88	2221
Motley, B. S. (See Dickerson, James H., assignor.)						
Mott, Frederick G., Utica, N. Y. Cone-adjuster and nut-lock	634,090	Oct. 3	186	46, 47	89	41
Mott, John M., Chicago, Ill. Non-refillable bottle	624,235	May 2	542	116	87	802
Motte, Georges, assignor to Société Motte-Bossut Fils et Mengers, Roubaix, France. Apparatus for cutting pile of pile fabrics	620,951	Mar. 14	772	169	86	1664
Moughler, William F. (See Koons and Moughler.)						
Mougin, Adolphe, Paris, France. Electric-arc lamp	623,329	Apr. 18	2098	481 482	87	439
Moule, Philip I., Bercail, Mont. Sheep-hook	634,364	Oct. 3	750	179	89	150
Moule, Philip I., Bercail, Mont. Hydrothermostat	636,682	Nov. 7	817	181	89	1088
Moulton, Luther V., and P. A. Jones, Grand Rapids, Mich. Dipping-tank	621,934	Mar. 28	2600	586	86	2044
Mound City Paint and Color Company. (See Brown, Charles A., assignor.)						
Mount, Harry H., Whittier, Iowa. Baby-walker	635,797	Oct. 31	3412	787	89	734
Mountford, Clarence E., Ottawa, Canada, assignor to W. A. Cook, Jr., New York, N. Y. Paper-file	635,502	Oct. 24	2862	653 654	89	613
Mourning, Hezekiah K. (See Hamilton and Mourning.)						
Mouser, L. D., Imperial, Nebr. Pipe lifting or lowering machine	627,007	June 13	1486	325 326	87	1921
Moussette, Oliver J., New York, N. Y. Acetylene-gas generator	624,846	May 9	1656	374	87	1045
Moussette, Oliver J., New York, N. Y. Acetylene-gas generator	636,683	Nov. 7	818	181	89	1088
Mowatt, John F., assignor of one-half to D. P. McNeil, Denver, Colo. Valve mechanism for engines	631,265	Aug. 15	2862	646	88	1320
Mower, Herbert W., Newark, N. J. Shade-roller attachment	622,968	Apr. 11	1411	325	87	288
Mowery, Robert, assignor of one-half to J. R. and J. H. Kilgore, Hot Springs, Ark. Telurian	635,175	Oct. 17	2214	516 517	89	472
Mowry, George W., Rochester, N. Y. Valve	626,550	June 6	602	138	87	1731
Mowry, Joseph B., Mansfield, Ohio. Refuse-wagon	622,702	Apr. 11	945	218 219	87	199
Mowry, Joseph B., Mansfield, Ohio. Medicine dose-indicator	623,171	Apr. 18	1814	415	87	382
Mowry, Joseph B., Mansfield, Ohio. Bail	630,393	Aug. 8	1274	279	88	987
Moyer, Abraham, Kosoma, Ind. Ter. Bridge	625,051	May 16	2013	453	87	1131
Moyer, Charles. (See Rhinelander and Moyer.)						
Moyer, Daniel, Allentown, assignor of one-half to F. Conlin, Bethlehem, Pa. Trolley-stand	618,231	Jan. 24	2634	581	86	562
Moyer, Gilbert L., assignor to Perkins Electric Switch Manufacturing Company, Hartford, Conn. Alternating-current arc-lamp	628,109	July 4	292	69	88	58
Moyer, Gilbert L., assignor to Perkins Electric Switch Manufacturing Company, Hartford, Conn. Electric-arc lamp	637,886	Nov. 28	3544	743	89	1727
Moyer, Harvey A., Syracuse, N. Y. Vehicle-axle	625,693	May 23	3131	712	87	1370
Moyer, Harvey A., Syracuse, N. Y. Spring-vehicle	628,720	July 11	1459	339	88	304
Moyer, Harvey A., Syracuse, N. Y. Thill-coupling	636,831	Nov. 14	1145	246	89	1180
Moyer, Harvey A., Syracuse, N. Y. Spring-cushion	637,814	Nov. 28	3392	710	89	1696
Moyer, John B., Orestes, Ind. Cornstalk-rake	624,960	May 16	1859	417 418	87	1102
Moyer, Jonas S., Hatfield, Pa. Metallic roofing	618,516	Jan. 31	3174	701	86	680
Moyers, George F., Oakville, Iowa. Tire-heating device	618,710	Jan. 31	3517	785	86	746
Moyes, Laurie M., Philadelphia, Pa. Furnace construction for steam-boilers	621,459	Mar. 21	1708	379	86	1858
Moyler, John, *et al.* (See Pannill, Henry, assignor.)						
Moynihan, James F., Stoneham, Mass. Apparatus for manufacturing oil or water gas	625,588	May 23	2958	672	87	1337
Muckle, John S., assignor to himself, M. R. Muckle, Jr., and T. C. Smith, Philadelphia, Pa. Bulkhead-door	626,551	June 6	603	139	87	1731
Muckle, M. Richards, Jr., *et al.* (See Muckle, John S., assignor.)						
Mudd, Francis X., and E. Hedrick, assignors to Live Poultry Transportation Company, Chicago, Ill. Poultry-car	636,546	Nov. 7	553	122 123	89	1033
Mudd, George W., Springfield, Ill. Track-sanding device	630,550	Aug. 8	1585	354	88	1045
Mudd, John A., U. S. Navy. Pneumatic carrier	640,145	Dec. 26	3603	828	89	2632
Mudge, Charles A. (See Cooper, Warren, and Mudge.)						
Mudge, Henry U. (See Parker, Banker, and Mudge.)						
Mudge, William F., Welland, Canada. Acetylene-gas generator	633,027	Sept. 12	1528	355 356	88	2023
Mudgett, Alfred B. (See Crist, Schenck, and Mudgett.)						
Mudgett, T. J. (See Watts and Hitch, assignors.)						
Mudros Syndicate. (See Shedlock, James J., assignor.)						
Muehlberg, Carl O., East Pittsburg, Pa. Drill-chuck for V-shank drills	626,841	June 13	1161	258	87	1856
Muehle, Bernard H., Detroit, Mich. Hydraulic dredge	623,804	Apr. 25	2964	678	87	626
Muehle, Bernard H., Detroit, Mich. Hydraulic dredge	635,798	Oct. 31	3414	787	89	734

Alphabetical list of patentees—Continued.

Name, residence, and invention.	No.	Date.	Monthly volume. Spec.	Monthly volume. Dr'g.	Official Gazette. Vol.	Official Gazette. Page.
Muehleisen, Carl, Baltimore, Md., assignor to Mergenthaler Linotype Company, of New York. Linotype-machine	634,536	Oct. 10	1059	253, 254	89	229
Muehleisen, Carl, assignor, by mesne assignments, to Ott. Mergenthaler Company, Baltimore, Md. Apparatus for locally hardening pieces of metal	637,009	Nov. 14	1508	325	89	1252
Muehler, Carl H., Peoria, Ill. Waistband-fastener	626,333	June 6	214	52	87	1653
Muehr, Frank, and J. B. Frerich, Rosanky, Tex. Plow	630,816	Aug. 8	2038	460	88	1135
Mueller, Alfred C., Oakland, Cal. Exercising device	620,346	Feb. 28	2831	645	86	1415
Mueller, Charles, Newark, N. J. Phonographic-record cabinet	638,586	Dec. 5	749	161	89	2009
Mueller, Charles F., Elizabeth, N. J. Tuning-hammer	634,016	Oct. 3	63	17	89	16
Mueller, Henry F., New Orleans, La. Cistern-cleaner	632,468	Sept. 5	469	106	88	1800
Mueller, Hieronymus, Decatur, Ill. Drill for tapping pipes	623,614	Apr. 25	2612	596	87	558
Mueller, Hieronymus, Decatur, Ill. Eel-guard for cocks	639,903	Dec. 26	3165	729	89	2541
Mueller, John. (See Brodt and Mueller.)						
Mueller, Oscar, Decatur, Ill. Tapping-machine	628,110	July 4	295	70	88	58
Mueller, Phillip, Decatur, Ill. Closet-repairer	620,484	Feb. 28	3047	697	86	1456
Mueller, Phillip, Decatur, Ill. Sand-screen or strainer for fluids	634,953	Oct. 17	1781	423	89	386
Mueller, Robert G., assignor of one-half to H. Hessenbruch, Philadelphia, Pa. Slicing-machine and feed mechanism	626,764	June 13	999	225	87	1826
Muir, John, Beith, Scotland. Leather tire for wheels	625,407	May 23	2645	601	87	1276
Muir, John, Brantford, Canada, assignor to Stover Manufacturing Company, Freeport, Ill. Windmill	628,412	July 4	861	202	88	165
Muir, Thomas K., Portland, Oreg. Elastic filling for wood pavements	635,176	Oct. 17	2218	517	89	473
Muir, William, Michigan Bluff, Cal., assignor to Hydraulic Ejector Dredging Company, of California. Ejector for mining and dredging. (Reissue)	11,755	July 4	912	213	88	176
Mulcahy, James H. (See Rudy and Mulcahy.)						
Mulcahy, Joseph C., Matteawan, N. Y. Hat blocking and pressing machine	623,028	Apr. 11	1520	352	87	310
Mulch, Theodore H., New York, N. Y., and O. Wiederhold, Summit, N. J. Gas-burner	621,840	Mar. 28	2418	540	86	2010
Mulch, Theodore H., New York, N. Y., and O. Wiederhold, Summit, N. J. Incandescent gas-burner	638,741	Dec. 12	1054	236	89	2091
Mulconroy, James J. (See Armstrong and Mulconroy.)						
Mulconroy, James J., Philadelphia, Pa. Telephone-receiver	616,953	Jan. 3	168	38	86	34
Mulder, Martienus, New Baltimore, assignor to J. N. Briggs, Coeymans, N. Y. Snow-scraper	625,589	May 23	2960	672, 673	87	1337
Mulder, Martienus, assignor of one-half to R. H. Goldsmith, New Baltimore, N. Y. Spring sash-balance	637,402	Nov. 21	2286	491	89	1418
Muldoon, Charles J., assignor of one-half to J. A. Stapleton, Rochester, N. Y. Nut-lock	623,553	Apr. 25	2501	574	87	537
Mulford, Henry K. (See Morris, Abraham R., assignor.)						
Mulholland, Richard, Dunkirk, N. Y. Vehicle-spring	620,718	Mar. 7	332	68	86	1566
Mulholland, Richard, Dunkirk, N. Y. Vehicle-shaft coupling	621,123	Mar. 14	1104	240, 241	86	1727
Mulholland, Richard, Dunkirk, N. Y. Rubber-tired wheel	635,385	Oct. 24	2621	605	89	566
Mullan, Arthur, assignor to Black Diamond Coal Mining Company, San Francisco, Cal. Runway for loading vessels	623,615	Apr. 25	2612	597	87	558
Mullen, Charles H., San Francisco, Cal. Bed-lounge	627,757	June 27	2879	629	87	2233
Mullen, Eugene H. (See Cunningham and Mullen.)						
Mullen, Gregory M., Baltimore, Md. Piston-packing	624,365	May 2	761	171	87	846
Mullen, William, New York, N. Y. Support for clothes-lines	629,804	Aug. 1	76	19	88	735
Mullenix, John S., assignor of one-half to W. H. Driver, Bradford, Ohio. Fence-post	632,966	Sept. 12	1431	330	88	2003
Müller, Adolph, Hagen, Germany. Means for preventing sparking when making and breaking electric circuits	629,201	July 18	2329	540	88	489
Müller, Albert, Schweidnitz, Germany. Water-pail	639,822	Dec. 26	3028	697	89	2515
Müller, Barthel, Coblenz, Germany. Clamping appliance for frames with glued mitered joints	633,657	Sept. 26	2754	640	88	2287
Müller, Carl O., Basle, Switzerland, assignor to L. Durand, Huguenin & Cie., Basle, Switzerland, St. Fons, France, and Hüningen, Germany. Blue-black dye and making same.	628,721	July 11	1462	------	88	305
Müller, Carl O., Basle, Switzerland, assignor to L. Durand, Huguenin & Cie., Basle, Switzerland, St. Fons, France, and Hüningen, Germany. Red dye and making same.	631,089	Aug. 15	2552	------	88	1258
Müller, Carl O., Basle, Switzerland, assignor to L. Durand, Huguenin & Cie., Basle, Switzerland; St. Fons, France, and Hüningen, Germany. Blue-black dye	640,010	Dec. 26	3360	------	89	2582
Müller, Carl O., Basle, Switzerland, assignor to Badische Anilin and Soda Fabrik, Ludwigshafen, Germany. Yellow basic dye	633,883	Sept. 26	3145	------	88	2366
Muller, Conrad, *et al.* (See Sheeley, William H., assignor.)						
Müller, Eduard, Thun, Switzerland. Brake device for guns	635,573	Oct. 24	2988	685, 686	89	637
Müller, Edward. (See Penzel and Müller.)						
Muller, Edward C., Vailsburg, N. J. Tool for lightening and softening surfaces of printing-plates	624,961	May 16	1861	418	87	1102
Müller, Emanuel, assignor to H. Hirzel, Leipsic, Germany. Shaft-coupling	630,514	Aug. 8	1516	339, 340	88	1031
Müller, Franz J., Bubna, Austria-Hungary. Apparatus for making briquets	627,130	June 20	1697	372	87	1981
Müller, Friederich. (See Diehl and Müller.)						
Müller, Harry O., assignor to J. E. Reyburn, Philadelphia, Pa. Fluid-pressure brake	638,025	Nov. 28	3813	802	89	1779
Müller-Jacobs, Armand, assignor to W. W. Avery and C. Müller-Jacobs, New York, N. Y. Manufacture of substances from rosin-oils	631,749	Aug. 22	3752	------	88	1512
Müller-Jacobs, Catharina, *et al.* (See Müller-Jacobs, Armand, assignor.)						
Müller, John P., assignor of two-thirds to L. Goldsmith, Jr., and N. Gold, New York, N. Y. Safety attachment for propelled vehicles	635,941	Oct. 31	3690	852, 853	89	787
Müller, John P., assignor of two-thirds to L. Goldsmith, Jr., and N. Gold, New York, N. Y. Fender for vehicles	636,832	Nov. 14	1146	246, 247	89	1180
Müller, Theodore J. F., Portland, Oreg. Hopple	627,131	June 20	1699	373	87	1981
Müller, Walter, Rixdorf, Germany. Centrifugal cooler	630,727	Aug. 8	1883	425	88	1102
Mullin, Timothy F. (See Henry and Mullin.)						
Mullins, John E, assignor of one-fourth to D. J. Buckman, East St. Louis, Ill. Scrub-bing-brush holder	623,616	Apr. 25	2614	597	87	558
Mullins, John W, London, Ky. Thill-coupling	619,332	Feb. 14	1002	226	86	1026
Multiple Power Company. (See Fefel, Henry H., assignor.)						
Mulvey, James, Harvey, assignor of one-half to J. A. Lahey, Chicago, Ill. Railway-tie	627,827	June 27	3000	656	87	2256
Mumford, Arthur G., and A. Anthony, Colchester, England. Variable-throw crank for velocipedes	620,164	Feb. 28	2502	569	86	1353
Mumford, George A., Rochester, N. Y. Piston-valve	637,010	Nov. 14	1510	325	89	1252
Mumford, James T., and J. M. Pinkerton, Cromwell, Iowa. Apparatus for receiving and delivering mail-bags	638,351	Dec. 5	308	64, 65	89	1925
Mumford, James T., and J. M. Pinkerton, Cromwell, Iowa. Apparatus for receiving and delivering mail-bags	638,352	Dec. 5	312	65, 66	89	1926
Mumford, Joseph A., Hantsport, Canada. Towing-machine	617,175	Jan. 3	602	141	86	118

Alphabetical list of patentees—Continued.

Name, residence, and invention.	No.	Date.	Monthly volume. Spec.	Monthly volume. Dr'g.	Official Gazette. Vol.	Official Gazette. Page.
Mumford, Thomas P., *et al.* (See Horn, Louis, assignor.)						
Mummery, Edwin G., assignor to Sun Vapor Stove Company, Detroit, Mich. Hydrocarbon-burner	621,696	Mar. 21	2140	476	86	1943
Mummery, Edwin G., assignor to Sun Vapor Stove Company, Detroit, Mich. Hydrocarbon-vapor stove	623,729	Apr. 25	2794	639	87	592
Mumper, David W., Atwood, Ill. Casket-support	638,587	Dec. 5	750	161	89	2010
Muncaster, Walter J., assignor of one-half to Cumberland Iron and Steel Shafting Company of Allegany County, Maryland, Cumberland, Md. Press for bending and straightening metal bars, &c	634,245	Oct. 3	512	130 131	89	104
Munday, James J., Philadelphia, Pa. Latch for sliding doors, &c	618,895	Feb. 7	134	30	86	831
Mündheim, Herman. (See Freese, Edward, assignor.)						
Mundhenk, Clement L. V., Gordon, and W. I. Christian, West Baltimore, Ohio. Mail pouch or bag	618,119	Jan. 24	2413	538	86	522
Mundorff, John J., New York, N. Y. Spectacle attachment for eyeglasses	617,595	Jan. 10	1396	317	86	291
Mundorff, Theodore. (See Purdy, William M., assignor.)						
Mundt, Ewald, assignor to W. Mundt, New York, N. Y. Spool-holder for braiding-machines	632,534	Sept. 5	599	137	88	1826
Mundt, Ewald, assignor to W. Mundt, New York, N. Y. Spool-holder for braiding-machines	638,059	Nov. 28	3860	811 812	89	1789
Mundt, William. (See Mundt, Ewald, assignor.)						
Mundy, Arthur J. (See Gray and Mundy.)						
Munger, Andrew J. (See Hughes and Munger.)						
Munger, Louis D., New York, N. Y., assignor to National Wheel and Traction Company, of New York. Combined elastic and pneumatic tire	638,588	Dec. 5	751	162	89	2010
Munger, Louis D., New York, N. Y., assignor to National Wheel and Traction Company, of New York. Combined pneumatic and cushion tire	638,589	Dec. 5	753	162	89	2010
Munger, Louis D., assignor to National Wheel and Traction Company, New York, N. Y. Combined pneumatic and cushion tire and rim	638,590	Dec. 5	754	162	89	2010
Munger, Preston C. (See Colclazer and Munger.)						
Munn, Daniel J. (See Kellington, John, assignor.)						
Munn, Daniel J., New York, N. Y. Book-cover-shaping machine	636,684	Nov. 7	819	182	89	1088
Munn, Frank E. (See Sheldon, Edward P., assignor.)						
Munn, Herbert F. (See Schlaf, Christian H., assignor.)						
Munoz, Signono C., *et al.* (See Kennedy, Dwight B., assignor.)						
Munroe, John, Jr. (See Doerr and Munroe.)						
Munsey, Horace W., assignor of one-half to W. H. Berry, Chester, Pa. Compound roll	619,496	Feb. 14	1288	295	86	1081
Munsey, Horace W., Chester, Pa., assignor to Eastman Kodak Company, of New York. Holding and spacing device for photographic films	632,736	Sept. 12	1006	234	88	1920
Munsie, James F., assignor of one-half to T. L. Coles, New York, N. Y. Electric railway	618,429	Jan. 31	3020	669	86	651
Munsie, James F., New York, N. Y., assignor of one-half to T. L. Coles. Electric railway	620,549	Feb. 28	3184	729	86	1483
Munsie, James F., New York, N. Y., assignor of one-half to T. L. Coles. Electric railway	620,852	Mar. 7	587	127	86	1618
Munson, Alonzo R., Napoleonville, La. Vine-pulling machine	633,209	Sept. 19	1899	447 448	88	2108
Munson, Mary F. (See Roberts, Frank E., assignor.)						
Munson, Robert H., *et al.* (See Leaver, James M., assignor.)						
Munton, James. (See Hermanson, Gustaf A., assignor.)						
Munz, Charles W., Detroit, Mich. Extension-table	623,682	Apr. 25	2724	625	87	580
Munzer, Eugene I. (See Kornick, Joe L., assignor.)						
Murat, Henri J., Paris, France. Skylight	635,052	Oct. 17	1971	467	89	426
Murbarger, William E., Indianapolis, Ind. Combined shaft-support and thill-coupling	627,939	June 27	3208	702	87	2300
Murchison, William, Toronto, Canada. Bottle-filling machine	635,338	Oct. 24	2502	581	89	542
Murden, Mahlon M., Logansport, Ind. Potato-bug gatherer	618,896	Feb. 7	135	30	86	831
Murdick, Israel H., Hartford, Mich. Lifting-jack	622,512	Apr. 4	576	135	87	109
Murdoch, Andrew, Hespelier, Canada. Stop-motion for fulling-mills	639,424	Dec. 19	2292	529	89	2349
Murdock, Edwin H., Cincinnati, Ohio. Canceling-punch	633,210	Sept. 19	1901	448	88	2109
Murdock, Frederick. (See Russell, Isaac O., assignor.)						
Murdock, Frederick, *et al.* (See Pagett, Charles H., assignor.)						
Murdock, George F., Wellsville, Ohio. Placket-fastener for skirts	622,381	Apr. 4	311	72	87	59
Murdock, James E. (See Sahlstrom and Murdock.)						
Murdock, Robert L. (See Forster and Murdock.)						
Murdock, Thomas J., assignor to himself and J. Roney, Woonsocket, R. I. Bobbin and thread holder	622,703	Apr. 11	949	219	87	200
Murdock, William F., *et al.* (See Paget, Charles H., assignor.)						
Murnane, Daniel J., Tuxedo Park, assignor to National Mercury Mirror Company, St. Louis, Mo. Apparatus for manufacturing mirrors	622,513	Apr. 4	578	135	87	109
Murnane, Daniel J., Tuxedo Park, assignor to National Mercury Mirror Company, St. Louis, Mo. Protector for mercury-back mirrors	631,121	Aug. 15	2606	589	88	1268
Murphy, Allen M., Fond du Lac, Wis. Refrigerator	627,651	June 27	2692	590 591	87	2195
Murphy, Andrew and D., Washington Lake, Minn. Steam-engine	621,460	Mar. 21	1711	380	86	1858
Murphy, Barney, assignor of one-half to Star Manufacturing Company, New Haven, Conn. Weather-strip	620,348	Feb. 28	2832	646	86	1415
Murphy, Daniel. (See Murphy, Andrew and D.)						
Murphy, Daniel H., Hartford, Conn. Glove	628,017	July 4	109	22	88	23
Murphy, Daniel H., Hartford, Conn. Suppository	638,258	Dec. 5	105	24	89	1886
Murphy, Daniel J. (See Sullivan, Daniel F., assignor.)						
Murphy, David, Otahuhu, New Zealand. Balance mechanism for wheeled vehicles	624,847	May 9	1657	375	87	1045
Murphy, David, Otahuhu, assignor of three-fourths to W. McManus and G. W. Basley, Auckland, and A. R. Harris, East Tamaki, New Zealand. Balance for undercarriages of vehicles or cars	620,952	Mar. 14	773	169	86	1664
Murphy, Edward E., Boston, assignor to J. Joyce, Andover, Mass. Gas-reducing regulator	619,206	Feb. 7	775	168	86	964
Murphy, Edward E., Boston, Mass., assignor, by mesne assignments, to New Era Carbonator Company, Charlestown, W. Va. Carbonating apparatus	636,162	Oct. 31	4137	948 949	89	877
Murphy, Edward E., Boston, Mass., assignor to New Era Carbonator Company, Charlestown, W. Va. Water-filter	638,742	Dec. 12	1055	236	89	2091
Murphy, James, and D. W. Bughman, Herington, Kans. Locomotive-cab signal-reminder	640,011	Dec. 26	3360	769	89	2582
Murphy, James A., and A. D. Rowe, assignors of one-third to C. H. Morgan, Holyoke, Mass. Pneumatic tire	622,060	Mar. 28	2828	637	86	2090
Murphy, John C., Evanston, Ill. Tilting box or receptacle	618,120	Jan. 24	2414	538 539	86	522
Murphy, John C., New York, N. Y., assignor to Boston Loan Company, Boston, Mass. Skeleton cloth-winding bolt-frame	625,937	May 30	3613	821	87	1481
Murphy, John F., Adrian, Mich. Fire-kindler	628,833	July 11	1666	388	88	346
Murphy, John J., Vincennes, Ind., assignor to T. S. Teuscher Commission Company, St. Louis, Mo. Strainer	636,054	Oct. 31	3910	898	89	831

Alphabetical list of patentees—Continued.

Name, residence, and invention.	No.	Date.	Monthly volume.		Official Gazette.	
			Spec.	Dr'g.	Vol.	Page.
Murphy, John M., Torrington, Conn. Electric railway	639,860	Dec. 26	3092	711	89	2528
Murphy, John N., Springfield, Ill. Valve	622,969	Apr. 11	1412	325	87	288
Murphy, John P. (See Strong, George S., assignor.)						
Murphy, John P., St. Paul, Minn. Mud-guard for vehicle-wheels	617,538	Jan. 10	1290	292	86	271
Murphy, Michael J., *et al.* (See Myers, Charles, assignor.)						
Murphy, Morrell. (See Woodworth, John B., assignor.)						
Murphy, Thaddeus, New York, N. Y. Propelling mechanism for vessels	624,366	May 2	761	171	87	846
Murphy, Thomas, Sewickley, Pa. Ball-hearing scissors	617,176	Jan. 3	603	141	86	118
Murphy, Thomas H., Boston, Mass. Tunnel-lining	626,078	May 30	3931	893	87	1540
Murphy, Thomas J., and B. F. Neilson, New York, N. Y.; said Neilson assignor to said Murphy. Junction-box	623,172	Apr. 18	1815	416	87	382
Murphy, Timothy C., Duhuque, Iowa. Washing-machine	620,605	Mar. 7	99	19	86	1522
Murphy, Wasey & Company. (See Evans, Alfred, assignor.)						
Murphy, William B., New York, assignor to L. N. Littauer, Gloversville, N. Y. Setting device for glove-fastenings	621,535	Mar. 21	1849	410	86	1885
Murphy, William H., Fox Lake, Wis. Vending-machine	621,614	Mar. 21	1980	442	86	1909
Murphy, William L., Boston, Mass. Adjustable blackboard-liner	623,805	Apr. 25	2967	678	87	626
Murphy, William P., San José, Cal. Singletree	619,904	Feb. 21	2051	465	86	1253
Murphy, William P., Willowglen, Cal. Burglar-alarm	625,980	May 30	3701	840	87	1498
Murphy, William P., San José, assignor of one-half to A. E. Winlow, Willowglen, Cal. Pie-plate lifter	626,289	June 6	126	32	87	1637
Murray, Alonzo D., Boston, Mass. Shirt-bosom adjuster	634,017	Oct. 3	65	17	89	17
Murray, Anna C., *et al.*, administrators. (See Murray, George T.)						
Murray, Charles R., San Francisco, Cal. Equalizer	630,306	Aug. 1	1070	234	88	933
Murray, Charles R., assignor to Barnhart Brothers & Spindler, Chicago, Ill. Serpentine or crimped type-space	618,800	Jan. 31	3673	823	86	778
Murray, Charles R., assignor to Barnhart Brothers & Spindler, Chicago, Ill. Machine for casting type	629,751	July 25	3340	779, 780	88	705
Murray, David. (See Garlick, Murray, and Howse.)						
Murray, Donald, Sydney, New South Wales. Actuating mechanism for key-operated machines	638,591	Dec. 5	756	162, 163, 164, 165, 166	89	2011
Murray, Ebenezer, Deadwood, S. D. Breast-shield	623,413	Apr. 18	2251	516	87	470
Murray, Eli F., Laurel Hill, N. C. Plow	637,939	Nov. 28	3639	763	89	1745
Murray, Eliza C., Philadelphia, Pa. Holder or supporter for cut flowers	620,347	Feb. 28	2831	645	86	1415
Murray, George C., St. Louis, Mo. Car-truck	626,552	June 6	604	139	87	1731
Murray, George T., Harrishurg, Pa. Folding rack for bicycles	619,775	Feb. 21	1801	413	86	1204
Murray, George T., deceased; A. C. Murray and C. Nauss, Harrishurg, Pa., administrators. Step-ladder	636,444	Nov. 7	359	81	89	994
Murray, Henry, Philadelphia, Pa. Adjustable car-strap	633,363	Sept. 19	2211	519	88	2168
Murray, James H., Philadelphia, Pa. Hydrant and hopper rod and handle	625,590	May 23	2962	673	87	1337
Murray, Kenneth S., assignor to Aerators, Limited, London, England. Means for effecting aeration of liquids in bottles	629,752	July 25	3343	780, 781	88	705
Murray, Maurice M., Baxter, Cal. Safety-pocket	624,069	May 2	225	47	87	745
Murray, Peter, Newark, N. J., assignor, hy mesne assignments, to Standard Gas Engine Company, of New Jersey. Gas-engine	619,776	Feb. 21	1802	413, 414, 415	86	1204
Murray, Roderick D. (See Williams and Murray.)						
Murray, Stephen M. (See Hadcock and Murray.)						
Murray, William F., San Francisco, Cal. Adjustahle fair-leader	618,607	Jan. 31	3329	740	86	710
Murray, William L., Eutaw, Ala. Spoke-socket	619,600	Feb. 14	1449	333	86	1110
Muschik, Emil, Hamhurg, Germany. Massage device	636,163	Oct. 31	4142	949	89	877
Muse, Charles H. A., *et al.* (See Lehrman, James E., assignor.)						
Muse, Daniel A., *et al.* (See Lehrman, James E., assignor.)						
Muse, Edwin H., *et al.* (See Lehrman, James E., assignor.)						
Musgrave, Walter M., Bolton, England. Device for lubricating engines	628,279	July 4	614	145, 146	88	119
Musgreave, Mark, Philadelphia, Pa. Pipe-coupling	617,761	Jan. 17	1712	384	86	372
Muskett, Jahez, assignor to F. Reddaway & Company, Limited, Manchester, England. Safety device for hydraulic hose	628,018	July 4	110	22	88	23
Muslar, Nelson, assignor to H. H. Fairbanks, Worcester, Mass. Milk-urn	637,815	Nov. 28	3393	711	89	1696
Musnicki, Antoine, Liege, Belgium. Steam-trap	619,207	Feb. 7	777	168, 169	86	964
Mussell, Jacoh, Sucker, Oreg. Mowing-machine attachment	625,981	May 30	3702	841	87	1499
Musselman, Ephraim, Celina, Ohio. Face-protector	631,375	Aug. 22	3059	692	88	1376
Mussey, William P., Chicago, Ill., assignor to Brunswick-Balke-Collender Company, of Ohio. Bowling-alley	631,090	Aug. 15	2553	577	88	1258
Mussinan, Oscar, New York, N. Y. Pin ticket or tag	639,082	Dec. 12	1636	379	89	2204
Mussinan, Oscar, New York, N. Y. Pin ticket or tag	639,083	Dec. 12	1637	379	89	2204
Mussinan, Oscar, New York, N. Y. Pin ticket or tag	639,084	Dec. 12	1638	379	89	2204
Mussman, William, Spragueville, Iowa. Fruit-picker	617,346	Jan. 10	937	216	86	202
Mustard, James E., Glen Hall, Ind. Butter for grain-binders	635,967	Oct. 31	3737	864	89	795
Mustard, James E., Glen Hall, assignor to C. Bradford, Indianapolis, Ind. Windrowing attachment for mowers	622,061	Mar. 28	2829	637	86	2090
Muth, William H., Rochester, N. Y. Apparatus for manufacturing hassocks	639,928	Dec. 26	3211	736	89	2552
Mutton, Thomas. (See Ridge, Mutton, and Hupton.)						
Mutual Electric Trust. (See Lewis, Frank M., assignor.)						
Myer, Milton M. (See Leeking, Harry D., assignor.)						
Myers, Angelo, Philadelphia, Pa. Yeasting process	638,259	Dec. 5	106	25	89	1886
Myers, Charles, assignor to M. J. Murphy, Akron, and H. Rosenbaum, Cincinnati, Ohio. Cement	624,521	May 9	1063	------	87	928
Myers, Charles, assignor to M. J. Murphy, Akron, and H. Rosenhaum, Cincinnati, Ohio. Cement	624,522	May 9	1064	------	87	928
Myers, Charles, assignor to M. J. Murphy, Akron, and H. Rosenhaum, Cincinnati, Ohio. Brick, block, or slab for buildings, mantels, vaults, &c	624,523	May 9	1064	240	87	928
Myers, Charles E., Detroit, Mich. Burial-casket	623,806	Apr. 25	2968	678, 679	87	627
Myers, Charles S., Columbus, Ohio. Adjustahle shade and curtain support	618,012	Jan. 17	2185	488	86	464
Myers, Clarence A., Atlantic City, N. J. Bicycle-support	623,807	Apr. 25	2970	679	87	627
Myers, David, Columhia City, Ind. Vehicle-axle oiler	639,085	Dec. 12	1640	379	89	2205
Myers, Elgie, *et al.* (See Westwood, John T., assignor.)						
Myers, Frederick, New York, N. Y. Cone-lock for hall-hearings	630,913	Aug. 15	2214	504	88	1192
Myers, Frederick, New York, N. Y. Ball-bearing for car-wheels	630,914	Aug. 15	2215	505	88	1192

Alphabetical list of patentees—Continued.

Name, residence, and invention.	No.	Date.	Monthly volume.		Official Gazette.	
			Spec.	Dr'g.	Vol.	Page.
Myers, Frederick, New York, N. Y. Cone-lock for ball-bearings	630,915	Aug. 15	2216	505	88	1193
Myers, Frederick, assignor to H. Smythe, New York, N. Y. Revolving chain-cover and gear-casing	618,945	Feb. 7	272	58	86	863
Myers, George A., assignor of one-half to S. R. Bourman, South Haven, Mich. Refrigerator	627,518	June 27	2431	535	87	2143
Myers, Henry R., Fort Thomas, Ky. Display attachment for doors	629,805	Aug. 1	77	20	88	736
Myers, Howard F., and B. H. Rinehart, Alliance, Ohio; said Rinehart assignor to said Myers. Partition for mail-distributing boxes	628,892	July 11	1763	412	88	364
Myers, James H., Sedgwick, Ark. Book type-writer	637,816	Nov. 28	3396	711, 712	89	1696
Myers, John L. (See Cope and Myers.)						
Myers, John W. (See Ries, Louis, assignor.)						
Myers, Levi M., Newberg, Oreg. Hop-bin	633,530	Sept. 19	2489	585	88	2221
Myers, Lewis C. (See Jones and Myers.)						
Myers, Lewis C., assignor to Century Machine Company, New York, N. Y. Ribbon-feed mechanism	637,347	Nov. 21	2180	470	89	1396
Myers, Loring W., Lubec, Me. Life-boat	637,940	Nov. 28	3640	763	89	1745
Myers, Oscar M., assignor, by mesne assignments, to J. E. Durand and C. R. Barber, Rochester, N. Y. Voting-machine	622,514	Apr. 4	579	135	87	109
Myers, Thomas J., Indianapolis, Ind. Metallic tagging-machine	630,625	Aug. 8	1728	386, 387	88	1072
Myers, Thomas L., Pleasant Hope, Mo. End-gate fastening for wagons	634,121	Oct. 3	256	64	89	54
Myers, William D. (See McCormick, William H., assignor.)						
Myrick, Owen H., Winnfield, La. Sash-holder	635,339	Oct. 24	2503	581	89	543
Myser, James F., Denver, Colo. Rail-tie	620,953	Mar. 14	775	170	86	1665
"N. L." Syndicate. (See Gatzsche, Franz, assignor.)						
Nace, Thomas, Toledo, Ohio. Rotary steam-engine	633,387	Sept. 19	2258	532	88	2177
Nachman, George W., *et al.* (See Greenhow, Thomas P., assignor.)						
Nacke, Arnold, Philadelphia, Pa. Plumb-bob	630,262	Aug. 1	974	214	88	915
Nadall, Berne, Chicago, Ill. Linotype-machine	630,396	Aug. 8	1278	280	88	988
Nadall, Berne, and M. Barr, Broadheath, England, assignors to Mergenthaler Linotype Company, New York, N. Y. Metal-pot mechanism of casting-machines	629,459	July 25	2800	651	88	602
Naery, John S. (See Coller and Naery.)						
Nafew, Samuel, New York, N. Y. Call-bell	626,793	June 13	1056	237	87	1838
Nageborn, Wilhelm E., assignor to Monitor Button Company, Detroit, Mich. Button-drilling machine	620,956	Mar. 14	780	171, 172	86	1666
Nagel, Oskar. (See Klimont and Nagel.)						
Nagell, John R., Everett, Wash. Combined cane and umbrella	629,460	July 25	2802	651	88	602
Nagle, James H., Minneapolis, Minn. Dust or water proof casing for fields of electric motors	626,922	June 13	1331	293	87	1890
Naistrom, John O., Minneapolis, Minn. Propeller disk harrow	638,981	Dec. 12	1468	336, 337	89	2173
Nalder, George. (See Weise, Gustav, assignor.)						
Nall, Jabez. (See Nall, John, assignor.)						
Nall, John, Homestead, Pa., assignor of one-half to J. Nall, Cleveland, Ohio. Metal-bending machine	622,189	Mar. 28	3071	695	86	2139
Nance, Albert W. and W. A., Davis Mills, Va. Apparatus for curing tobacco	637,348	Nov. 21	2182	470	89	1396
Nance, Wilbur A. (See Nance, Albert W. and W. A.)						
Napier, James M., Trinidad, Colo. Threshold	636,165	Oct. 31	4146	950	89	878
Naquin, Olinda G., Rockport, Tex. Rotary oven-plate	633,029	Sept. 12	1538	358	88	2024
Nasberg, Mikael, Florence, Wis. Window-cleaner	628,022	July 4	113	23	88	24
Nasberg, Mikael, Florence, Wis. Cleaning device	639,759	Dec. 26	2912	671	89	2492
Nasch, Isidor, London, England, assignor to Smyth Manufacturiug Company, Hartford, Conn. Thread stitching and tying machine	634,698	Oct. 10	1338	316, 317	89	284
Nash, Charles A., Creston, Nebr. Permutation-lock	619,779	Feb. 21	1819	416	86	1209
Nash, Daniel W., Eastlake, assignor of one-third to J. B. Gibson, Woodlawn, Ala. Foundry-ladle	619,431	Feb. 14	1183	267	86	1059
Nash, Francis M. and W. R., Motley, Minn. Pneumatic straw-stacker	618,898	Feb. 7	138	30, 31	86	832
Nash, Ira A., Kansas City, Mo., assignor to Flagg Brothers Company, New York, N. Y. Button-setting machine	620,550	Feb. 28	3186	729	86	1483
Nash, John, Mattapan, Mass. Railway-car	630,552	Aug. 8	1590	355	88	1046
Nash, John, Dayton, Wash. Door	635,341	Oct. 24	2508	583	89	544
Nash, Lewis H., South Norwalk, Conn., assignor to National Meter Company, New York, N. Y. Speed-transmitting device	638,668	Dec. 5	894	197	89	2039
Nash, William A., Taylor, Tex. Milk-cooler	625,982	May 30	3704	841	87	1499
Nash, William R. (See Nash, Francis M. and W. R.)						
Nashoba Company. (See Baker, Elbridge, assignor.)						
Nasmith, John W., Manchester, England. Evening mechanism for cotton-opening machines	630,087	Aug. 1	685	147	88	858
Nasmith, John W., Manchester, England. Steam-trap	630,088	Aug. 1	687	148	88	859
Nasmith, John W., Manchester, England. Steam-trap	630,089	Aug. 1	688	148	88	859
Nasmith, John W., Manchester, England. Steam-trap	630,090	Aug. 1	690	148	88	859
Nathan, Albert F., Kansas City, Mo. Apparatus for marking and smoking meats	627,625	June 27	2650	582	87	2187
Nathan, Benjamin, New York, N. Y. Anatomical insole	622,253	Apr. 4	92	21	87	21
Nathan, Estelle, New York, N. Y. Ash-can	617,445	Jan. 10	1127	257	86	238
Nathan, Harry, New York, N. Y. Printing or numbering device	619,209	Feb. 7	781	170	86	965
Nathan Manufacturing Company. (See Kaczander, Leopold, assignor.)						
Nathan Manufacturing Company. (See Kaczander and Ruddy, assignors.)						
Nathan Manufacturing Company. (See Kaczander, Desmond, and Ruddy, assignors.)						
National Automatic Acetylene Gas Machine Company. (See Porter, Frederick E., assignor.)						
National Biscuit Company. (See Donnelly, Arthur, assignor.)						
National Branding Iron Company. (See Hutchinson, William F., assignor.)						
National Car Roofing Company. (See Ewing, Edwin C., assignor.)						
National Car Seal and Lock Company. (See Hilty, John F., assignor.)						
National Carbon Company. (See Richmond, Charles T., assignor.)						
National Carbon Company. (See Richmond and Zellers, assignors.)						
National Cash Register Company. (See Cleal, Joseph P., assignor.)						
National Cash Register Company. (See Crane, James S., assignor.)						
National Casket Company. (See Hamilton, William, assignor.)						
National Casket Company. (See Peoples, Erasmus O., assignor.)						
National Cement and Rubber Manufacturing Company. (See Bancroft, James E., assignor.)						
National Company. (See Baldwin, Cyrus W., assignor.)						
National Computing Scale Company. (See Swihart, John H., assignor.)						

Alphabetical list of patentees—Continued.

Name, residence, and invention.	No.	Date.	Monthly volume. Spec.	Monthly volume. Drg.	Official Gazette. Vol.	Official Gazette. Page.
National Cycle Manufacturing Company. (See Wilcox, Melvin L., assignor.)						
National Drafting Tool Company. (See Day, William C., assignor.)						
National Elastic Nut Company. (See Paine, Tracy L., assignor.)						
National Electric Car Lighting Company. (See Moskowitz, Morris, assignor.)						
National Enameling and Stamping Company. (See Niedringhaus, William F. and G. W., assignors.)						
National Fire Appliance Company. (See Woodman, Edward F., assignor.)						
National Folding Box and Paper Company. (See Lynch, Morris T., assignor.)						
National Grate Bar Company. (See Lee, George S., assignor.)						
National Machinery Company. (See Clouse, William L., assignor.)						
National Magneto Electric Telegraph Company. (See Woolley, Leonidas G., assignor.)						
National Malleable Castings Company. (See Buckius, Albert O., assignor.)						
National Malleable Castings Company. (See Case, William, assignor.)						
National Marble Company. (See Utley, Hiram S., assignor.)						
National Mattress Machine Company. (See Martin, George F., assignor.)						
National Mattress Machine Company. (See Thompson, Robert R., assignor.)						
National Mercury Mirror Company. (See Murnane, Daniel J., assignor.)						
National Meter Company. (See Nash, Lewis H., assignor.)						
National Musical String Company. (See Emerson, George D., assignor.)						
National Rolling Screen Company. (See Crocker, James A., assignor.)						
National Ticket Case Company. (See Blades, Leonard J., assignor.)						
National Ticket Case Company. (See Blades, Leonard J., assignor.)						
National Time Recorder Company. (See Busenbenz, Jacob J., assignor.)						
National Tool and Stamping Company of Baltimore City. (See Reed and Wheatfield, assignors.)						
National Tube Company. (See Holinger, Emil F., assignor.)						
National Tube Company. (See Quimby, Edward E., assignor.)						
National Wheel and Traction Company. (See Munger, Louis D., assignor.)						
Natterer, Josef, Jersey City, N. J., assignor to Symphonion Manufacturing Company, of New York. Support for star-wheels of music-boxes	621,844	Mar. 28	2425	541	86	2012
Natterer, Josef, Jersey City, N. J., assignor to Symphonion Manufacturing Company, New York, N. Y. Detent device for winding mechanism of music-boxes	621,845	Mar. 28	2426	542	86	2012
Natterer, Josef, Jersey City, N. J., assignor to Symphonion Manufacturing Company, New York, N. Y. Speed-regulator	622,011	Mar. 28	2748	620	86	2075
Natzel, August. (See Richardson, Albert C., assignor.)						
Nauss, Christian, *et al.*, administrators. (See Murray, George T.)						
Navarein, Amedée, Paris, France, assignor to T. Pfister and E. Barthels, London, England. Cloisonné-work. (Reissue)	11,712	Jan. 24	2935	649	86	622
Nay, Cassius B., Fairmont, W. Va. Fireplace	628,837	July 11	1670	389	88	346
Naylor, Ernest W., Philadelphia, Pa. Electromagnetic mechanism for actuating engine-valves	625,792	May 30	3336	758	87	1429
Naylor, George W., Jersey City, N. J. Car-fender	626,290	June 6	127	32, 33	87	1638
Naylor, Jonathan R., Flowerfield, Mich. Combined spring and spike tooth harrow	625,793	May 30	3340	758	87	1430
Neacy, Thomas J., assignor to Filer & Stowell Company, Milwaukee, Wis. Chair for conveyer-chains	622,064	Mar. 28	2832	638	86	2090
Neal, Albert D., Boston, and H. F. Eaton, Quincy, Mass. Electromechanical apparatus	625,408	May 23	2646	601	87	1276
Neal, Austin R., *et al.* (See Neal, James W., assignor.)						
Neal, James H., Boston, Mass. Wrench	628,838	July 11	1671	390	88	346
Neal, James H., Boston, assignor of one-half to F. E. Huntress, Somerville, Mass. Brake mechanism for railway-cars	632,319	Sept. 5	203	47	88	1747
Neal, James W., assignor to A. R. Neal and E. S. Gale, Roanoke, Va. Lock-hinge	623,926	Apr. 25	3195	735, 736	87	669
Neal, John W., Kealia, Hawaii. Lemon-squeezer	620,047	Feb. 21	2301	522	86	1299
Neal, John W., Cifax, Va. Whiffletree-coupling	622,705	Apr. 11	953	220	87	201
Neale, Arthur H., Beaver Falls, assignor of thirteen twenty-fourths to T. French, Allegheny, and C. M. Clarke, Pittsburg, Pa. Gas-engine	639,683	Dec. 19	2765	638	89	2444
Neave, John H., Matteawan, N. Y. Making hats	631,903	Aug. 29	4023	901	88	1576
Neave, John H., Rainow, England, and F. Dehan, Paris, France. Stiffening hats	631,904	Aug. 29	4025	------	88	1576
Needham, Charles W., Washington, D. C. Fire-escape	637,475	Nov. 21	2406	522	89	1441
Needham, George H., and W. Smith, London, England. Elastic wheel	618,430	Jan. 31	3021	669	86	651
Neeger, Theodore C., assignor of one-half to H. Goldstein, Utica, N. Y. Station-indicator	616,954	Jan. 3	169	39	86	34
Neeley, George S., assignor of one-half to A. Koppitz, Pacific, Mo. Automatic regulator	617,598	Jan. 10	1399	317, 318	86	291
Neely, Edward, and W. M. Bradt, Chicago, Ill. Ball-game apparatus	617,297	Jan. 3	828	193	86	163
Neely, Eugene A., *et al.* (See Newsom, Joseph N., assignor.)						
Neely, Samuel L., Pierron, Ill. Nut-lock	630,919	Aug. 15	2225	507	88	1194
Neely, Samuel M., Chester, S. C. Fish-hook	635,503	Oct. 24	2864	654	89	613
Neely, Samuel M., Chester, S. C. Cotton-seed crusher and distributer	635,802	Oct. 31	3422	789	89	735
Neely, Thaddeus A. (See Becker, Frank J., assignor.)						
Neely, William A., Lynn, Mass., assignor to Wheeler & Wilson Manufacturing Company, Bridgeport, Conn. Trimming mechanism for sewing-machines	628,227	July 4	499	121	88	99
Neely, William A., Lynn, Mass., assignor to Wheeler & Wilson Manufacturing Company, Bridgeport, Conn. Loop-taker for sewing-machines	639,181	Dec. 12	1801	417	89	2237
Nef, John J., New York, N. Y., assignor to Pacific Investment Company, of New Jersey. Air-brake	637,646	Nov. 21	3089	639	89	1615
Nef, John J., New York, N. Y., assignor to Pacific Investment Company, of New Jersey. Air-brake	637,647	Nov. 21	3091	639, 640	89	1615
Neff, Francis M., and J. W. Maple, Bolton, Mo. Colter	639,904	Dec. 26	3165	729	89	2541
Neff, Frank F., Prattsburg, N. Y. Wire-twister for making cork-retainers	625,591	May 23	2963	673, 674	87	1338
Neff, Frank F., Prattsburg, N. Y. Machine for making wire caps or cork-retainers	625,592	May 23	2966	674	87	1338
Nefzger, Simon, Lima, Iowa. Bicycle	623,379	Apr. 18	2185	501	87	456
Negus, Walter S., *et al.* (See Hotz, Henry H., assignor.)						
Nehring, Ulrich, New York, N. Y. Photographic burnisher	626,555	June 6	609	140	87	1732
Nei, Daniel, assignor of one-half to J. H. Dean, Grand Rapids, Mich. Bicycle-alarm	636,833	Nov. 14	1147	247	89	1180
Neible, George W., Chester, Pa. Combined garment-supporter and hook	625,189	May 16	2251	511	87	1175
Neider, Fred A., Augusta, Ky. Tufting-button for cushion-seats	630,553	Aug. 8	1591	355	88	1046
Neider, Fred A., Augusta, Ky. Machine for securing shanks to carriage-curtain knobs	630,554	Aug. 8	1592	355, 356	88	1047
Neidhardt, Hans, Chemnitz, Germany. Apparatus for drying wet felts of paper-making machines	634,307	Oct. 3	642	156	89	130
Neidich, Samuel A., Philadelphia, Pa. Assimilating printed and type-written work	640,013	Dec. 26	3363	------	89	2582
Neil, James, Jr., assignor of one-third to J. Neil, New York, N. Y. Artificial tooth	631,429	Aug. 22	3163	718	88	1397
Neild, Harry W., London, England. Joint for electric conductors	627,759	June 27	2881	630	87	2234

Alphabetical list of patentees—Continued.

Name, residence, and invention.	No.	Date.	Monthly volume. Spec.	Monthly volume. Dr'g.	Official Gazette. Vol.	Official Gazette. Page.
Neilson, Benjamin F. (See Murphy and Neilson.)						
Neiman, William H., Jr., Pottstown, Pa. Lid or cover for milk-cans	623,380	Apr. 18	2186	502	87	456
Neipling, Joseph D., Kane, Pa. Glass annealing and purifying furnace	617,690	Jan. 10	1570	355, 356	86	325
Neiswanger, David F., *et al.* (See Tague, Joseph M., assignor.)						
Nelsen, Anton P. (See Hansen and Nelsen.)						
Nelson, A. M. (See Guinnip, Arthur B., assignor.)						
Nelson, Alfred, Helena, Mont. Sled attachment for bicycles	633,030	Sept. 12	1539	358	88	2025
Nelson, Carl A., Binghamton, N. Y. Apparatus for straightening linotype matrix-dies	636,686	Nov. 7	826	183	89	1090
Nelson, Carl F , Exira, Iowa. Boot or shoe cleaner	631,807	Aug. 29	3869	863	88	1545
Nelson, Charles, St. Louis, Mo. Ice-cream cabinet	621,273	Mar. 14	1375	305	86	1781
Nelson, Charles A., assignor of one-fourth to L. Peterson, Gladstone, Mich. Sewing-awl	618,716	Jan. 31	3527	787	86	748
Nelson, Commodore B., *et al.* (See Perkins, James B., assignor.)						
Nelson, Edward, *et al.* (See Berg, Theodore, assignor.)						
Nelson, Edward B. (See Ward and Nelson.)						
Nelson, Edward E., assignor of one-half to G. W. Perkins and N. B. Allen, Fillmore, Ill. Combined door latch and lock	634,365	Oct. 3	751	179	89	150
Nelson, Emil A., Hallock, Minn. Photographic-background carrier	638,744	Dec. 12	1058	237	89	2092
Nelson, Gulbrand. (See Walquist, Nelson, and Gronquist.)						
Nelson, Henry R., Gales, Minn. Stoker for straw-burning furnaces	618,717	Jan. 31	3528	787, 788	86	749
Nelson, Horace, *et al.* (See Perkins, James B., assignor.)						
Nelson Improved Seamless Filled Wire Company. (See Carlisle, Thomas F., assignor.)						
Nelson, John F., Rockford, Ill. Knitting-machine	617,039	Jan. 3	342	81, 82, 83, 84, 85, 86, 87	86	67
Nelson, John F., Rockford, Ill. Stocking	617,040	Jan. 3	359	87	86	69
Nelson, John H., Atlantic, Iowa. Clevis for regulating plow-furrows	616,955	Jan. 3	171	39	86	34
Nelson, John H., assignor of one-half to P. Christensen, Atlantic, Iowa. Broom-reservoir	636,687	Nov. 7	827	183	89	1090
Nelson, John L., Omaha, Nebr. Beverage-mixer	618,122	Jan. 24	2417	539, 540	86	523
Nelson, Louis, assignor of one-third to J. H. Patterson, Richmond, Va. Combined ironing-board and ladder	639,603	Dec. 19	2602	598	89	2413
Nelson, Martin O., Natick, Mass. Attachment for dental dams	628,487	July 11	1005	234	88	214
Nelson, Theodore. (See Phelps, Byron, assignor.)						
Nelson, William E., Washington Mills, N. Y. Clothes-drier	618,183	Jan. 24	2555	565	86	548
Nelson, William O., assignor of one-half to L. S. Houghton, Baltimore, Md. Acetylene-gas-generator lamp	639,760	Dec. 26	2913	671, 672	89	2492
Nelsson, Oscar B. (See Söderström and Nelsson.)						
Nelthorpe, Edgar E., and G. H. Williamson, Janesville, Wis. Fountain-pen	632,320	Sept. 5	206	47	88	1747
Neptune Meter Company. (See Thomson, John, assignor.)						
Neracher, Inozens J., Cleveland, Ohio. Wire crimper and shears	627,200	June 20	1810	397	87	2003
Nerney, Martin J., Troy, N. Y. Suspensory undershirt	637,817	Nov. 28	3404	712	89	1698
Nernst, Walther, Göttingen, Germany, assignor to G. Westinghouse, Pittsburg, Pa. Electrical glow-light	623,811	Apr. 25	2977	681	87	628
Nerz, Fidelis, Nuremberg, Germany. Grinding-machine for surfaces of revolution of conic sections	637,476	Nov. 21	2408	522	89	1442
Nesbitt, Charles J., assignor of one-fourth to J. S. Chick, Jr., Kansas City, Mo. Non-refillable bottle	639,271	Dec. 19	1985	457	89	2288
Nesmith, Henry E., Jr., *et al.*, trustees. (See Mallory, George B., assignor.)						
Nesper, Arthur E., *et al.* (See Habermann, George J., assignor.)						
Nethercott, Joseph H., and J. W. Hersch, Alameda, Cal. Air-brake signal	630,002	Aug. 1	515	113	88	825
Neubecker, Carl A., Offenbach-on-the-Main, Germany. Machine for driving hoops upon barrels or casks	625,409	May 23	2650	601, 602	87	1277
Neuberger, Jacob. (See McHenry and Norton, assignors.)						
Neuberger, Louis, and E. Cleary, assignors to Connecticut Web Company, Bridgeport, Conn. Cast-off for suspenders	630,729	Aug. 8	1887	426	88	1103
Neubert, Franklin G., Waterbury, Conn. Button	633,858	Sept. 26	3151	731	88	2367
Neubert, Franklin G., assignor to Patent Button Company, Waterbury, Conn. Button	626,392	June 6	339	79	87	1679
Neubert, Franklin G., assignor to Patent Button Company, Waterbury, Conn. Button	631,378	Aug. 22	3063	693	88	1377
Neuberth, George E., assignor to H. Ill, Newark, N. J. Caster	631,579	Aug. 22	3454	780	88	1455
Neuberth, George E., assignor to H. Ill, Newark, N. J. Wheel for casters, &c	631,580	Aug. 22	3456	781	88	1455
Neuendorff, John B., San Antonio, Tex. Automatic telephone-directory	634,994	Oct. 17	1865	443	89	404
Neuendorff, John B., San Antonio, Tex. Churn	637,014	Nov. 14	1517	326	89	1253
Neuens, Michael W., assignor of one-halfto R. Stelling, Port Washington, Wis. Window	634,019	Oct. 3	66	18	89	17
Neuens, Michael W., and J. J. Hoeller, Jr., Port Washington, Wis. Grinding-machine	623,683	Apr. 25	2727	625	87	580
Neuhs, Werner, Cleveland, Ohio. Baker's oven	628,488	July 11	1006	234	88	215
Neuhs, Werner, Cleveland, Ohio. Door for bakers' ovens	635,075	Oct. 17	2026	478	89	437
Neumann, Albert, Berlin, Germany, assignor to Farbenfabriken of Elberfeld Company, of New York. Medicinal compound and making same	633,289	Sept. 19	2055	------	88	2138
Neumann, Hans, assignor to Gas-Motoren-Fabrik-Deutz, Cologne-Deutz, Germany. Making gas	633,031	Sept. 12	1541	358	88	2025
Neumann, Julius J., assignor to Lyon & Healy, Chicago, Ill. Cornet	622,820	Apr. 11	1141	264	87	236
Neumann, Peter T., Galion, Ohio. Convertible hay-rack and wagon-box	633,531	Sept. 19	2490	586	88	2222
Neumann, Samuel, Stuttgart, Germany. Bicycle-support	630,068	Aug. 1	657	141	88	853
Neumark, Abraham S., New York, N. Y. Lacing stud or hook	629,724	July 25	3290	767	88	695
Neumeyer, Horace F., Macungie, Pa. Waste-valve for hydrants	628,023	July 4	115	24	88	24
Neumeyer, Horace F., Macungie, Pa., and J. F. Young, Niagara Falls, N. Y. Water-nozzle	616,472	Jan. 10	1170	267	86	247
Neuville, Frank V., New York, N. Y. Combined piano plate and back	625,848	May 30	3449	783	87	1450
Neverbreak Shoe String Company. (See Kempshall, Eleazer, assignor.)						
Nevill, Henry, Southampton, England. Wheeled vehicle	638,133	Nov. 28	4024	847, 848	89	1820
Neville, Joseph C., assignor to Walworth & Neville Manufacturing Company, Bay City, Mich. Multiple boring-machine	619,333	Feb. 14	1002	227	86	1026
Neville, Wilkinson D., assignor to Walworth & Neville Manufacturing Company, Bay City, Mich. Multiple boring-machine	626,502	June 6	529	122	87	1716
Nevius, Frazier W., Fort Madison, Iowa. Fountain-scrubber	621,936	Mar. 28	2604	587	86	2045

Alphabetical list of patentees—Continued.

Name, residence, and invention.	No.	Date.	Monthly volume. Spec.	Monthly volume. Dr'g.	Official Gazette. Vol.	Official Gazette. Page.
Nevius, George L. (See Brown, Cornelius M., assignor.)						
New Bern Mattress Machine Company. (See Gaskill, Elijah T., assignor.)						
New Britain Machine Company. (See Brown, Robert S., assignor.)						
New, Carrie H. (See Smith, Joseph W., assignor.)						
New Departure Bell Company. (See Anderson, Robert S., assignor.)						
New Departure Bell Company. (See Rockwell, Albert F., assignor.)						
New England Automatic Weighing Machine Company. (See Mitchell, Albion L. F., assignor.)						
New England Automatic Weighing Machine Company. (See Mitchell and Rhodes, assignors.)						
New England Automatic Weighing Machine Company. (See Richards, Francis H., assignor.)						
New England Butt Company. (See McCahey, John, assignor.)						
New England Rubber Tire Wheel Company. (See Bradlee, Dudley H., assignor.)						
New England Toe Calk Company. (See Wilson, John H., assignor.)						
New England Watch Company. (See Hart, Edwin, assignor.)						
New Era Carbonator Company. (See Murphy, Edward E., assignor.)						
New Era Company. (See Cowles, Harry L., assignor.)						
New Haven Clock Company. (See Porter, Wilson E., assignor.)						
New Haven Novelty Machine Company. (See Luke, Charles, assignor.)						
New Jersey Wick Company. (See Marshall, Charles L., assignor.)						
New Process Coating Company. (See Braddock, Edward I., assignor.)						
New Process Coating Company. (See Horne, Winslow L., assignor.)						
New Shuttle Company. (See Hamblin, Stephen M., assignor.)						
New, Yancey N. (See Wynn, Robert E., assignor.)						
New York Asbestos Manufacturing Company. (See Lantzke, Albert, assignor.)						
New York Consolidated Card Company. (See Cohen, Stanley A., assignor.)						
New York Filter Manufacturing Company. (See Agge and Nye, assignors.)						
New York Filter Manufacturing Company. (See Hyatt, John W., assignor.)						
New York Filter Manufacturing Company. (See Nye, Walter B., assignor.)						
New York Filter Manufacturing Company. (See Weston and Jackson, assignors.)						
New York Nozzle Company. (See Askins, Joseph, assignor.)						
Newall, Robert, Quincy, Mass. Combination-tool	637,648	Nov. 21	3093	640	89	1615
Newbaker, Philip C., Danville, Pa. Newspaper-file	636,166	Oct. 31	4146	951	89	878
Newberry, William W., Poland, N. Y. Insect-powder gun	626,765	June 13	1001	225	87	1826
Newburg, John I., Vicksburg, Miss. Elevated railway	633,145	Sept. 19	1784	420	88	2084
Newby, Albert S., Kansas City, Mo., assignor to himself, and B. G. Collier, Memphis, Tenn. Lamp-chimney and means for supporting same	636,688	Nov. 7	828	184	89	1090
Newby, Albert S., Kansas City, Mo., assignor to himself, and B. G. Collier, Memphis, Tenn. Incandescent-mantle support	640,014	Dec. 26	3364	770	89	2583
Newby, Albert S., Kansas City, Mo., assignor to himself, and B. G. Collier, Memphis, Tenn. Incandescent gas-burner	640,015	Dec. 26	3365	770	89	2583
Newby, Albert S., Chanute, Kans., assignor to himself, and B. G. Collier, Memphis, Tenn. Gasolene-lamp burner	640,016	Dec. 26	3366	770	89	2583
Newby, Charles E. (See Newby, William, assignor.)						
Newby, Clarence L., Kansas City, Mo. Vapor-burning apparatus	619,210	Feb. 7	782	170	86	965
Newby, William, assignor of one-half to C. E. Newby, Pittsburg, Pa. Lawn-mower	637,649	Nov. 21	3095	640, 641	89	1616
Newby, William H., assignor, by mesne assignments, of one-half to Indiana Manufacturing Company, Indianapolis, Ind. Pneumatic straw-stacker	638,878	Dec. 12	1285	292	89	2136
Newcomb, Edward C., Brookline, Mass., assignor to Holtzer-Cabot Electric Company, Brookline and Boston, Mass., and New York, N. Y. Alternating-current motor	618,578	Jan. 31	3282	728	86	701
Newcomb, Edward C., Brookline, Mass., assignor to Holtzer-Cabot Electric Company, Brookline and Boston, Mass. Commutator short-circuiter	618,579	Jan. 31	3283	728, 729	86	701
Newcomb, Herbert S., Malden, Mass. Cutting-tool	628,280	July 4	617	146	88	119
Newcomb, Joseph H., Bradford, Pa. Nut-lock	633,606	Sept. 26	2669	623	88	2270
Newcomb, William W., Bradfordsville, assignor of one-half to J. J. Cozatt, Livingston, Ky. Window-sash	619,780	Feb. 21	1821	416	86	1209
Newell, Andrew. (See Hylard, John, assignor.)						
Newell, Augustus. (See Schuyler, Daniel, assignor.)						
Newell, Augustus, Pasadena, assignor of one-half to D. Schuyler, San Diego, Cal. Door-hanger	623,030	Apr. 11	1523	353	87	311
Newell, Augustus, Pasadena, assignor of one-half to D. Schuyler, San Diego, Cal. Sliding-door structure	633,290	Sept. 19	2055	482	88	2138
Newell, Augustus, Pasadena, assignor of one-half to D. Schuyler, San Diego, Cal. Sliding-door lock	633,291	Sept. 19	2058	483	88	2139
Newell, Frank C., Chicago, Ill. Electromagnetic brake	616,956	Jan. 3	172	39	86	34
Newell, Frank C., Chicago, Ill., assignor to Westinghouse Air Brake Company, Wilmerding, Pa. Electromagnetic brake. (Reissue)	11,786	Nov. 7	975	209	89	1128
Newell, Frank F., Peabody, Mass. Apparatus for extracting grease from leather	634,670	Oct. 10	1289	304	89	274
Newell, George H., Grand Rapids, Mich. Projectile	621,697	Mar. 21	2142	477	86	1943
Newell, George H., Grand Rapids, Mich. Projectile	621,698	Mar. 21	2143	477	86	1943
Newell, George H., and C. Lindberg, assignors of one-fourth to J. Waddell, Grand Rapids, Mich. Hair-trigger	620,796	Mar. 7	478	100	86	1595
Newell, Hugh T., Pittsburg, Pa. Reversing-valve for regenerative furnaces	634,907	Oct. 17	1706	403	89	372
Newell, John H., Lyndon, Kans. Device for adjusting the beat of pendulum clocks	638,745	Dec. 12	1059	237	89	2093
Newell, Joshua B., Georgiaville, R. I. Shuttle-guard for looms	630,263	Aug. 1	976	215	88	915
Newell, Roscius C., Palmer, Mass. Conveyer for cotton	624,237	May 2	546	116	87	803
Newell, T. W. (See Bonham, William, assignor.)						
Newell, William, and F. M. Sullivan, Amboy, Ind.; said Sullivan assignor to said Newell. Railway cattle-guard	617,347	Jan. 10	938	216	86	202
Newhall, Henry B. (See Cook, John H., assignor.)						
Newhall, Henry B. (See Kingsland, Oliver H., assignor.)						
Newhouse, James M., Marble Cliff, Ohio. Sand-blast	636,279	Nov. 7	100	22	89	942
Newlee, William H., Pulaski City, Va. Shelf-bracket and support therefor	634,091	Oct. 3	187	47	89	41
Newlin, Joseph S., Augusta, Ga. Air-feeding apparatus for furnaces	628,349	July 4	754	174	88	145
Newlin, Joseph S, Robbins, S. C., assignor of one-half to F. T. Lockhart, Augusta, Ga. Cutting and grinding mill	640,149	Dec. 26	3609	830	89	2633
Newman, Amelia D. (See Ford, Emma A., assignor.)						
Newman, Charles E., Albion, N. Y. Double-acting force-pump	627,235	June 20	1875	411	87	2017
Newman, Charles E., assignor to W. Colton and C. G. Hill, Baltimore, Md. Motor-vehicle	633,032	Sept. 12	1543	359	88	2025
Newman, Ernest P., Stillwater, Minn. Railway-switch	636,730	Aug. 8	1888	426	88	1103
Newman, Fred J., and J. Ledwinka, Chicago, Ill. Means for propulsion of vehicles by electricity	638,643	Dec. 5	857	186, 187	89	2031
Newman, George F., Rangitata, New Zealand. Composition for rendering garments waterproof	639,087	Dec. 12	1641	------	89	2205

Alphabetical list of patentees—Continued.

Name, residence, and invention.	No.	Date.	Monthly volume.		Official Gazette.	
			Spec.	Dr'g.	Vol.	Page.
Newman, Gustavus O., Riverside, Cal. High-pressure valve	628,671	July 11	1380	323	88	287
Newman, James N., Riverside, Cal. Baling-press	638,644	Dec. 5	859	187	89	2032
Newman, James W., Plainview, Oreg. Land-roller	634,737	Oct. 10	1417	334	89	299
Newman, John W., Elizabeth, N. J. Suction-pipe foot-valve filter	625,794	May 30	3341	759	87	1430
Newman, William H., Totteridge Park, England. Variable-speed gear	637,477	Nov. 21	2409	522, 523	89	1442
Newport News Manufacturing Company. (See Bargamin, Clifford, assignor.)						
Newquist, Emil, Carlton, Minn. Scissors-grinding attachment for sewing-machines	622,012	Mar. 28	2750	621	86	2075
Newquist, Oscar E., Carlton, Minn. Fence-post	628,208	July 4	467	112	88	93
Newsom, Joseph N., St. Louis, Mo., assignor of three-fourths to E. A. Neely, H. Jones, Memphis, Tenn., and C. B. Lumsden, Chicago, Ill. Bicycle-gearing	628,839	July 11	1673	390	88	347
Newsome, Bert, Minonk, Ill. Thread-cutter	630,731	Aug. 8	1890	427	88	1103
Newson, George W., and J. P. Harris, Wellington, New Zealand. Bicycle-support	627,268	June 20	1940	427	87	2030
Newton, Abraham, Xenia, Ohio. Smoke-consuming steam-boiler furnace	630,091	Aug. 1	691	149	88	860
Newton, Abraham, Xenia, Ohio. Smoke-consuming furnace	631,091	Aug. 15	2555	578	88	1258
Newton, Charles H., London, England. Spigot	626,082	May 30	3936	894	87	1541
Newton, Charles H., Southborough, Mass. Apparatus for clarifying milk	626,766	June 13	1002	225, 226	87	1827
Newton, Charles W. (See Earle and Newton.)						
Newton, Charles W., Marlborough, assignor of one-half to S. H. Howe Shoe Company, Marlborough and Boston, Mass. Strap-cutting machine	639,272	Dec. 19	1988	458	89	2289
Newton, Henry E., *et al.* (See Donaldson, Fred H., assignor.)						
Newton, Herbert B. (See Webster, Harold A., assignor.)						
Newton, Robert, Jerseyville, Ill. Land roller and pulverizer	630,467	Aug. 8	1436	321	88	1017
Newton Rubber Works. (See Chamberlain, Frank R., assignor.)						
Newton & Thompson Manufacturing Company. (See Bump, Charles H., assignor.)						
Newton, William R., Shelbyville, Tenn. Draft attachment for harvesting or other machines	638,592	Dec. 5	767	166	89	2013
Ney, Jacob, assignor to V. L. Ney Company, Canton, Ohio. Trip-head for carriers	636,834	Nov. 14	1149	247	89	1181
Ney Manufacturing Company. (See Swacick, Judson D., assignor.)						
Niagara Falls Power Company. (See Sellers, Coleman, assignor.)						
Niagara Machine and Tool Works. (See Zeh, Edmund, assignor.)						
Nicewaner, Edwin G., Johnstown, Pa., assignor to Lorain Steel Company, of Pennsylvania. Attachment for car-trucks	633,727	Sept. 26	2883	670	88	2313
Nicewaner, Edwin G., Johnstown, Pa., assignor to Lorain Steel Company, of Pennsylvania. Car-truck	639,273	Dec. 19	1990	458, 459	89	2289
Nicewaner, Edwin G., Johnstown, Pa., assignor to Lorain Steel Company, of Pennsylvania. Car-truck	639,274	Dec. 19	1992	459	89	2290
Nichol, John, and J. Willson, Blenheim, Canada. Ladder	619,334	Feb. 14	1003	227	86	1026
Nicholas, Askin M., Bulong, Western Australia. Filtering apparatus for separating gold and silver bearing solutions	619,211	Feb. 7	783	170, 171	86	966
Nicholas, Benjamin F., Harrisburg, Pa. Catch-basin or inlet for sewers	623,731	Apr. 25	2798	640	87	593
Nicholas, Charles P., *et al.* (See Humphrey, Harry J., assignor.)						
Nicholas, Eliza, Plainfield, N. J. Measure for drafting dress-skirts	622,900	Apr. 11	1295	298	87	264
Nicholas, William A., and G. Burkhardt, Chicago, Ill. Torch-burner	622,525	Apr. 4	621	145	87	118
Nicholls, Joseph P., Denver, Colo. Locomotive-cab seat	627,940	June 27	3210	703	87	2300
Nicholls, Walter H., Lynn, assignor to Libby, Harlow & Co., Boston, Mass. Razor-stropping device	626,186	May 30	4159	947	87	1582
Nicholls, William H. (See Mitchell, Downton, and Nicholls.)						
Nichols, Aaron S., Chicago, Ill., assignor to B. H. Reeve, receiver. Lumber-drier	631,764	Aug. 22	3791	844	88	1516
Nichols, Alvin L., Grove City, Ohio. Cheese-cutting device	619,905	Feb. 21	2051	465	86	1253
Nichols, Andrew D. (See De Champ, Obed, assignor.)						
Nichols, Chester B., and C. A. Erdin, Philadelphia, Pa. Electric fan	626,209	May 30	4206	956	87	1591
Nichols, Edwin C., Topeka, Kans. Mechanical motor	625,349	May 23	2552	580, 581	87	1257
Nichols, Edwin C., assignor of one-half to W. C. Smith, Topeka, Kans. Submarine mining and ore-separating apparatus	629,910	Aug. 1	305	68, 69, 70	88	779
Nichols, Francis D. (See Griffiths, Ellis W., assignor.)						
Nichols, George H., and E. S. Williamson, Pittsburg, Pa. Car-brake	625,459	May 23	2739	623	87	1293
Nichols, Henry B., Philadelphia, Pa. Railway-switch	625,458	May 23	2738	623	87	1292
Nichols, Henry B., Philadelphia, Pa., assignor to William Wharton, Jr., & Company, Incorporated, of Pennsylvania. Railway-crossing	631,808	Aug. 29	3869	863	88	1545
Nichols, Henry C., Hope Valley, R. I. Governor for steam-engines	618,431	Jan. 31	3023	669	86	651
Nichols, James H., Akron, Ohio. Platform-gear	631,122	Aug. 15	2607	589	88	1268
Nichols, Lafayette L., Inverness, Fla. Running-gear for vehicles	617,935	Jan. 17	2059	462	86	442
Nichols, Lewis N., deceased; R. E. Nichols, Findlay, administratrix, assignor of two-thirds to C. Ketch, Fostoria, and R. A. Weir, Rising Sun, Ohio. Hen's nest	627,652	June 27	2695	591	87	2196
Nichols, Marion L., Westfield, N. J., assignor to Evolution Cycle Company, Washington, D. C. Bicycle	616,957	Jan. 3	177	40	86	35
Nichols, Rachel E., administratrix. (See Nichols, Lewis N.)						
Nichols, Robert F., Alturas, Cal. Power-transmitter	629,461	July 25	2803	651	88	602
Nichols, Samuel F., New York, N. Y. Hand-drill	631,509	Aug. 22	3312	752, 753	88	1426
Nichols, Thomas J., and H. N. Tennille, Manchester, Va. Fire-escape	636,689	Nov. 7	829	184	89	1090
Nichols, Thomas W., South Bend, Ind. Making soap	630,092	Aug. 1	696	------	88	861
Nichols, William, Kansas City, Kans. Train-order signal-board	634,268	Oct. 3	562	139	89	113
Nichols, William A., St. Davids, Pa. Culvert	625,795	May 30	3342	759	87	1430
Nichols, William E. (See Miller and Nichols.)						
Nichols, William H., Twin Lake, Ind. Thill-coupling	638,936	Dec. 12	1389	317	89	2157
Nicholson, Alfred J., Manchester, England. Construction of tents	620,719	Mar. 7	334	68, 69	86	1566
Nicholson, Isaac, deceased, Vallejo, Cal.; M. Boynton, administratrix. Tobacco smoking-pipe	633,292	Sept. 19	2061	483	88	2139
Nicholson, John H., Cleveland, Ohio. Mechanism for making tubes from billets	628,024	July 4	117	24	88	25
Nicholson, Merchant E. (See Badgett, Luther B., assignor.)						
Nicholson, Richard, *et al.* (See Gozzard, Alfred, assignor.)						
Nicholson, Robert H. (See Byle, Fillmore, and Nicholson.)						
Nicholson, Robert J., *et al.* (See Gozzard, Alfred, assignor.)						
Nicken, Barton A. (See Clark, James E., assignor.)						
Nickerson, Charles F., Reading, Mass. Ventilator	634,215	Oct. 3	434	111	89	90
Nickerson, Luke A., Buchanan, Mich., assignor, by mesne assignments, to Jackson Knife and Shear Company, Fremont, Ohio. Shears	627,738	June 27	2845	623	87	2225
Nickerson, William E., Cambridge, Mass. Apparatus for filling bags	619,834	Feb. 21	1913	436, 437	86	1227
Nickerson, William J., New Orleans, La. Piano attachment	627,739	June 27	2847	623	87	2225
Nickey, Oscar E., Big Spring, Tex. Water-filter	617,177	Jan. 3	604	142	86	118

Alphabetical list of patentees—Continued.

Name, residence, and invention.	No.	Date.	Monthly volume. Spec.	Monthly volume. Dr'g.	Official Gazette. Vol.	Official Gazette. Page.
Nicklin, John, Jr., Cleveland, Ohio. Die and tap holder	634,269	Oct. 3	566	140	89	113
Nicla, Albert L., J. H. Optenberg, and E. H. Sonneman, Sheboygan, Wis. Pressure-gage	631,809	Aug. 29	3870	864	88	1545
Nicol, John C., assignor of one-half to H. C. Rylands, Bridgeport, Conn. Nipple-wrench	624,849	May 9	1660	375	87	1046
Nicolai, Friedrich W. O., Charlottenburg, assignor to M. Frank, Frankfort-on-the-Main, Germany. Petroleum incandescent lamp	631,223	Aug. 15	2768	627	88	1301
Nicolai, Friedrich W. O., Charlottenburg, and F. H. Aschner, Berlin, assignors to M. Frank, Frankfort-on-the-Main, Germany. Petroleum incandescent lamp	623,812	Apr. 25	2978	682	87	628
Nicolai, George J. (See Kelley and Nicolai.)						
Nicolai, Samuel F., Syracuse, Ind., assignor of one-half to A. C. Himebaugh, Burr Oak, Mich. Wire-splicing tool	626,438	June 6	414	98	87	1693
Nicolas, Alexander C., Hawthorne, assignor of one-fourth to E. R. Dodge and A. Michel, Reno, Nev. Device for preventing derailment of railway-coaches	618,283	Jan. 24	2718	603, 604	86	578
Nicolas, Louis H., Louisville, Ky. Pump-gear	617,936	Jan. 17	2061	462	86	442
Nicolle, Marie C. H., Cesny-Bois-Halbout, France. Coffin	638,265	Dec. 5	114	26, 27	89	1888
Nicols, Charles E., New Orleans, La. Car for transporting fruit or vegetables	637,478	Nov. 21	2411	523	89	1442
Niederer, Albert, Carlstadt, N. J. Stamp-moistener	632,967	Sept. 12	1432	330	88	2004
Niederländer, Heinrich, Ponz-on-the-Rhine, Germany. Sliding window	630,781	Aug. 8	1972	446	88	1120
Niedringhaus, Alexander, St. Louis, Mo. Brick-making	630,397	Aug. 8	1280	280	88	988
Niedringhaus, George W. (See Niedringhaus, William F. and G. W.)						
Niedringhaus, William F. and G. W., St. Louis, Mo., assignors, by mesne assignments, to National Enameling and Stamping Company, Jersey City, N. J. Enameling steel or homogeneous iron	632,737	Sept. 12	1008	------	88	1920
Nielsen, Carl O. (See Glud and Nielsen.)						
Nielsen, Friedrich G., Sonderburg, Germany. Fender for ships	638,469	Dec. 5	547	113	89	1971
Nielsen, Laurits M., New York, N. Y. Machine for stamping and sealing envelops	627,590	June 27	2569	567, 568	87	2170
Nielsen, Laurits M., New York, N. Y. Machine for sealing envelops	636,690	Nov. 7	830	184, 185	89	1090
Nielsen, Laurits M., and C. A. Madsen, New York, N. Y. Envelop-stamping machine	627,591	June 27	2577	568, 569	87	2172
Nielson, Christen, New York, N. Y. Boring-machine	639,604	Dec. 19	2604	598, 599	89	2414
Niemann, John H., Richmond, Victoria. Filter for attachment to water-taps	621,937	Mar. 28	2605	587	86	2045
Nienstaedt, Hans O., Copenhagen, Denmark. Stock and die	633,473	Sept. 19	2398	564	88	2204
Nier, August C. (See Treibel and Nier.)						
Nies, Frederick H., and W. Dunn, New York, N. Y. Bicycle frame and gear-case	622,526	Apr. 4	622	145	87	118
Nigh, George W. (See Mahaffy and Nigh.)						
Nigro, Charles, assignor of one-half to A. B. Hill, Biwabik, Minn. Ticket stamp and recorder	635,178	Oct. 17	2221	517, 518	89	473
Nilander, Otto. (See Miller and Nilander.)						
Niles, H. S., *et al.* (See Gallup, Thomas P., assignor.)						
Niles, Irving W., Odell, Ill. Fly-brush	619,781	Feb. 21	1823	417	86	1210
Niles, Joseph H., New York, N. Y. Type-writer-platen pawl	619,985	Feb. 21	2180	496	86	1277
Niles Manufacturing Company. (See Niles, Sidney S., assignor.)						
Niles, Sidney S., assignor, by mesne assignments, to Niles Manufacturing Company, Chicago, Ill. Spring-hinge	624,850	May 9	1661	375	87	1046
Niles, Walter L. C., assignor of one-half to T. W. Gardiner, Lynn, Mass. Shoe-form	633,293	Sept. 19	2061	483	88	2139
Nill, Jacob P., *et al.* (See Harvey, William L., assignor.)						
Nilson, Andrew A., and J. J. Ven, Elk Point, S. D. Three-row cornstalk-cutter	627,135	June 20	1703	374	87	1982
Nilson, Anton, Natick, Mass. Combined chair and bed	617,348	Jan. 10	939	217	86	203
Nilson, Axel L., assignor of one-half to W. T. Archer, Ottumwa, Iowa. Shackle	632,359	Sept. 5	269	63	88	1760
Nilson, Carl J., assignor of one-half to C. G. Johnston, New York, N. Y. Snow or ice velocipede	627,653	June 27	2697	592	87	2196
Nilson, Jonas P. L., Philadelphia, Pa. Writing-desk	632,924	Sept. 12	1364	314	88	1990
Nilsson, Nils, New York, N. Y. Turbine motor	637,818	Nov. 28	3405	713	89	1698
Nilsson, Nils, New York, N. Y., assignor to Nilsson Power Company, of New York. Art of and apparatus for transforming energy of motive fluids	638,266	Dec. 5	115	27, 28	89	1888
Nilsson, Pehr, New York, N. Y. Car-fender	634,092	Oct. 3	189	47	89	42
Nilsson Power Company (See Nilsson, Nils, assignor.)						
Nims, Alvin F., Philadelphia, N. Y. Excavator	621,938	Mar. 28	2606	587, 588	86	2045
Nims, Frank B., Lake Odessa, Mich. Car-starter	619,986	Feb. 21	2181	496	86	1277
Nineteen Hundred Washer Company. (See Miller, Marcus A., assignor.)						
Nirisen, Gilbert, Wellsford, Kans. Washing-machine	625,190	May 16	2252	512	87	1175
Nissim, Louis, London, England. Elastic band	620,664	Mar. 7	229	47	86	1547
Niswonger, M. P., *et al.* (See Parks, Albert F., assignor.)						
Nitsch, August, Breslau, Germany. Apparatus for making fertilizers	619,335	Feb. 14	1005	227	86	1026
Nix, James N., *et al.* (See Shackelford, William A., assignor.)						
Nixon, John, Farmland, Ind. Fence-post	626,083	May 30	3937	894	87	1541
Nixon, Lewis, and W. H. Knight, New York, N. Y. Subaqueous tunnel and constructing same	629,135	July 18	2223	515, 516	88	470
Nixon, Sallie H., St. Louis, Mo. Ink-well	628,672	July 11	1382	323	88	287
Nixon, William A., assignor of one-half to J. Hanly, Burlington, N. J. Head and back rest for invalids	635,578	Oct. 24	2996	687	89	639
Nixon, William G. (See Chapman, Frank E., assignor.)						
Noar, Isaac, New York, N. Y. Bicycle	630,003	Aug. 1	697	149	88	861
Noble, Alpheus A., Waterborough, Me. Track-raiser	634,699	Oct. 10	1342	317	89	284
Noble, Frederick C., New York, N. Y. Metallic column	631,655	Aug. 22	3574	806	88	1479
Noble, George W., Lum, Ala. Cultivator	633,033	Sept. 12	1548	359, 360	88	2026
Noble, Howard C., *et al.* (See Elliott, Sterling, assignor.)						
Noble, Louis A., Bournemouth, England. Guide for scissors	626,336	June 6	217	53	87	1654
Noble, William L., Roe, W. Va. Rotary knife	630,094	Aug. 1	698	149	88	861
Noe, Elisha, Larue, assignor of one-half to E. J. Benge, Benge, Ky. Combined saw-set, jointer, and wrench	626,767	June 13	1003	226	87	1827
Noe, Elzer C., Chicago, Ill. Bicycle	623,173	Apr. 18	1817	417	87	382
Noël, Aurèle, Pointe aux Pères, Canada. Oar-lock	623,684	Apr. 25	2730	626	87	581
Noelting, Bernhard H., Nebraska City, Nebr. Caster-socket	626,439	June 6	415	98	87	1693
Noftsker, William L. (See Oler, William A., assignor.)						
Noftzger, Charles F., North Manchester, Ind. Automatic boiler-cleaner	618,517	Jan. 31	3175	701	86	680
Noggle, Harvey. (See Schoonover, Noah E., assignor.)						
Nohsey, Henry, assignor to Nohsey & Schwab, Memphis, Tenn. Well-bucket	618,948	Feb. 7	277	59	86	864
Nohsey & Schwab. (See Nohsey, Henry, assignor.)						
Nokes, Charles W., *et al.* (See Banwell, James, assignor.)						
Nolan, Abina, Toronto, Canada. Attachment for sewing-machines	624,238	May 2	547	116	87	803

Alphabetical list of patentees—Continued.

Name, residence, and invention.	No.	Date.	Monthly volume.		Official Gazette.	
			Spec.	Dr'g.	Vol.	Page.
Nolan, George E. (See Northam and Nolan.)						
Nolan, Johnston. (See Spence and Nolan.)						
Nolan, Peter A., Chicago, Ill. Horse-detacher	619,432	Feb. 14	1184	267, 268	86	1059
Nolan, Sarah, Chicago, Ill. Curling-iron	618,184	Jan. 24	2557	565	86	548
Nolan, Thomas R., Cleveland, Ohio. Type-writer platen	626,556	June 6	611	140	87	1733
Noland, George W., Parkville, Mo. Animal-tail holder	630,920	Aug. 15	2226	507	88	1194
Nolen, James G., assignor of one-half to C. B. Arthur, Cleveland, Ohio. Combined generator and ringer for telephones	633,146	Sept. 19	1787	420	88	2085
Nolen, James G., assignor of one-half to C. B. Arthur, Cleveland, Ohio. Tablet and index	633,147	Sept. 19	1789	421	88	2085
Nolen, William, Mound, Ill. Plow attachment	627,809	June 27	2969	650	87	2250
Noll, John. (See Schmidt, William A., assignor.)						
Nollenberg, Emil, Berlin, Germany. Photographic tray	633,148	Sept. 19	1790	421	88	2085
Non-Poisonous "Strike Anywhere" Match Syndicate. (See Cordes, Walter G., assignor.)						
Nonnast, L. F. (See Anderson, Bernhard C. J., assignor.)						
Noonan, Joseph P., Springfield, Mass. Hacksaw-frame	623,685	Apr. 25	2731	626	87	581
Nopper, George J., Baltimore, Md., assignor to Singer Manufacturing Company, of New Jersey. Stitch-forming mechanism for buttonhole-sewing machines	632,360	Sept. 5	270	63, 64	88	1760
Norby, B. J. (See Scott, Charles S., assignor.)						
Norby, Nels H., Cooleysville, Minn. Cow-milker	636,446	Nov. 7	362	82	89	994
Norcott, Dwight C., Boston, Mass. Hansom	637,404	Nov. 21	2289	492, 493	89	1418
Norcross, George A., New York, N. Y. Churn	633,100	Sept. 12	1686	396	88	2055
Norcross, Orlando W. (See Durkee, Jerry N., assignor.)						
Norcross, Orlando W., Worcester, Mass. Fireproof partition	628,252	July 4	555	133	88	109
Norcross, William M., Philadelphia, Pa. Car-seat	623,255	Apr. 18	1961	448	87	411
Norcross, William M., Philadelphia, Pa. Car-seat	623,256	Apr. 18	1963	448	87	411
Norcross, William M., Philadelphia, Pa., assignor to Biddle Purchasing Company, Philadelphia, Pa., and Camden, N. J. Wrench	618,899	Feb. 7	141	31	86	832
Nordeman, John H. D., Washington, D. C. Acetylene-gas generator	631,656	Aug. 22	3576	806	88	1480
Nordhaus, John W. (See Ross, Joseph, assignor.)						
Nordhausen, Otto von, U. S. Revenue Marine, U. S. revenue cutter "*Galveston*," Galveston, Tex. Bicycle-lock	640,017	Dec. 26	3368	771	89	2584
Nordlinger-Charlton Fireworks Company. (See Bidwell and Curtis, assignors.)						
Nordlinger-Charlton Fireworks Company. (See Curtis, Charles L., assignor.)						
Nordlinger-Charlton Fireworks Company. (See Curtis and Lispenard, assignors.)						
Nordlinger-Charlton Fireworks Company. (See Lispenard, George, assignor.)						
Nordlinger-Charlton Fireworks Company. (See Nordlinger, Louis, assignor.)						
Nordlinger-Charlton Fireworks Company. (See Truyter, Edward C., assignor.)						
Nordlinger, Louis, assignor to Nordlinger-Charlton Fireworks Company, New York, N. Y. Fire-cracker	634,180	Oct. 3	362	93	89	74
Nordlinger, Louis, assignor to Nordlinger-Charlton Fire Works Company, New York, N. Y. Fireworks-body or the like	639,605	Dec. 19	2606	599	89	2414
Nordstrom, Edward, Sciota, Ill. Corn-cultivator	628,588	July 11	1199	280	88	251
Nordtmeyer, Hermann, Celle, Germany, assignor to A. Giese, New York, N. Y. Filter-pump	629,387	July 25	2670	623	88	576
Nordwall, Peter. (See Day, Orin F., assignor.)						
Nordyke & Marmon Company. (See Brantingham, Allen C., assignor.)						
Nordyke & Marmon Company. (See Warrington, Jesse, assignor.)						
Nordyke, Walter A., Indianapolis, Ind. Cable-support	622,778	Apr. 11	1068	248	87	222
Nordyke, Walter A., Indianapolis, Ind. Extension-bracket	637,969	Nov. 28	3688	775, 776	89	1755
Norfolk, Hayward J., Watertown, N. Y. Forced-draft lamp	618,123	Jan. 24	2419	540	86	523
Norman, Bradford, Portsmouth, assignor to M. Norman, Newport, R. I. Connected studs	635,971	Oct. 31	3748	865	89	797
Norman, Mabel. (See Norman, Bradford, assignor.)						
Norman, Robert F., Bolivar, Mo. Office-indicator	625,460	May 23	2740	623	87	1293
Normand, Françoise E. (See Normand, Jacques A., F. E., and M. E.)						
Normand, Jacques A., F. E., and M. E., Havre, France. Means for use in working quick-firing guns on board ship	628,840	July 11	1675	391	88	347
Normand, Jacques A., F. E., and M. E., Havre, France. Means for firing guns	630,095	Aug. 1	698	150	88	861
Normand, Joseph M., and D. B. Hyde, assignors to Western Manufacturing Co., Springfield, Ohio. Tool-holder	639,428	Dec. 19	2296	530	89	2351
Normand, Marie E. (See Normand, Jacques A., F. E., and M. E.)						
Normart, Frank G. (See Thorp and Normart.)						
Norrington, Henry H., West Bay City, Mich. Check-book	636,350	Nov. 7	205	45	89	962
Norrington, Nova Z., South Bend, Ind. Railway-switch	633,101	Sept. 12	1687	397	88	2055
Norris, Almon E., Cambridge, Mass. Driving apparatus	638,184	Nov. 28	4120	870, 871	89	1840
Norris, Almon E., Cambridge, Mass. Automatic brake	638,185	Nov. 28	4122	871	89	1840
Norris, Almon E., assignor to Rawson & Morrison Manufacturing Company, Cambridge, Mass. Clutch mechanism	638,669	Dec. 5	895	197, 198	89	2040
Norris, Harry, Birmingham, England. Machine for fluting, corrugating, or grooving tubes	617,763	Jan. 17	1717	386	86	373
Norris, John S., Red Lodge, Mont. Wheel-cultivator	636,167	Oct. 31	4147	951	89	878
Norris, Samuel, *et al.* (See Crane, Henry C., assignor.)						
Norris, Thomas F., Adams county, Ohio. Dehorner	631,123	Aug. 15	2608	589	88	1268
Norrman, Godfrey L. (See Morris and Norrman.)						
North, Arthur, Jersey City, N. J., and A. Paterson, New York, N. Y. Elevator-car	618,124	Jan. 24	2421	540, 541	86	524
North Brothers Manufacturing Company. (See Furbish, Zachry T., assignor.)						
North & Judd Manufacturing Company. (See Smith, Clarence E., assignor.)						
North, Samuel A., Bridgeport, Conn. Die-holder	638,746	Dec. 12	1061	238	89	2093
North, Thomas M. (See Crowell and North.)						
North, Thomas M., assignor to R. Hoe, T. H. Mead, and C. W. Carpenter, New York, N. Y. Tympan-shifting mechanism	618,125	Jan. 24	2423	541, 542	86	524
North, Thomas M., assignor to R. Hoe, T. H. Mead, and C. W. Carpenter, New York, N. Y. Stop-motion for printing-presses	629,087	July 18	2130	495, 496	88	453
North, Thomas M., assignor to R. Hoe, T. H. Mead, and C. W. Carpenter, New York, N. Y. Printing-press	629,388	July 25	2671	623	88	576
North, Thomas M., assignor to R. Hoe, T. H. Mead, and C. W. Carpenter, New York, N. Y. Printing-press	629,911	Aug. 1	312	70, 71	88	780
North, Thomas M., assignor to R. Hoe, T. H. Mead, and C. W. Carpenter, New York, N. Y. Printing-press	629,912	Aug. 1	316	71, 72	88	781
North, Thomas M., assignor to R. Hoe, T. H. Mead, and C. W. Carpenter, New York, N. Y. Printing-press	629,913	Aug. 1	319	72	88	783

Alphabetical list of patentees—Continued.

Name, residence, and invention.	No.	Date.	Monthly volume. Spec.	Monthly volume. Dr'g.	Official Gazette. Vol.	Official Gazette. Page.
North, Thomas M., assignor to R. Hoe, T. H. Mead, and C. W. Carpenter, New York, N. Y. Printing-press	629,914	Aug. 1	322	73	88	784
North, Thomas M., assignor to R. Hoe, T. H. Mead, and C. W. Carpenter, New York, N. Y. Automatic lifting mechanism for inking apparatus	629,915	Aug. 1	325	73	88	785
North, Thomas M., assignor to R. Hoe, T. H. Mead, and C. W. Carpenter, New York, N. Y. Sheet holding and straining device	629,916	Aug. 1	330	74	88	786
North, Thomas M , assignor to R. Hoe, T. H. Mead, and C. W. Carpenter, New York, N. Y. Printing-machine	635,972	Oct. 31	3749	866, 867	89	797
North, Thomas M., assignor to R. Hoe, T. H. Mead, and C. W. Carpenter, New York, N. Y. Inking apparatus	638,747	Dec. 12	1062	238	89	2093
North, Thomas M., assignor to R. Hoe, T. H. Mead, and C. W. Carpenter, New York, N. Y. Inking apparatus	638,748	Dec. 12	1065	238, 239	89	2094
Northall, William H., Evansville, Ind. Bottle-sealing device	619,603	Feb. 14	1454	335	86	1111
Northam, Robert J., Los Angeles, Cal. Rotary pump	633,474	Sept. 19	2399	564	88	2204
Northam, Robert J., Los Angeles, Cal. Head for rotary pumps	633,475	Sept. 19	2400	564, 565	88	2204
Northam, Robert J., Los Angeles, Cal. Guide for rotary pumps	633,476	Sept. 19	2401	565	88	2205
Northam, Robert J., Los Angeles, Cal. Guide for rotary pumps	633,477	Sept. 19	2403	565	88	2205
Northam, Robert J., and G. E. Nolan, Los Angeles, Cal. Combined electric motor and pump-head	633,478	Sept. 19	2404	565, 566	88	2205
Northern Light Wood Gas Machine Company. (See McLeod, George W., assignor.)						
Northrop, Egbert H., New Milford, Conn., assignor to J. Mayer's Sons, New York, N. Y. Jointed truck	637,650	Nov. 21	3097	641	89	1616
Northrop, James H. (See Draper and Northrop.)						
Northrop, James H. (See Northrop, Jonas and J. H.)						
Northrop, James H., Hopedale, Mass., assignor to Draper Company, Hopedale, Mass., and Portland, Me. Shedding mechanism for looms	618,232	Jan. 24	2636	582	86	563
Northrop, James H., Hopedale, Mass., assignor to Draper Company, Hopedale, Mass., and Portland, Me. Let-off mechanism for looms	618,363	Jan. 24	2862	635	86	606
Northrop, James H., Hopedale, Mass., assignor to Draper Company, Hopedale, Mass., and Portland, Me. Warp stop-motion for looms	619,604	Feb. 14	1455	335	86	1112
Northrop, James H., Hopedale, Mass., assignor to Draper Company, Hopedale, Mass., and Portland, Me. Warp stop-motion for looms	621,310	Mar. 14	1440	318, 319	86	1793
Northrop, James H., Hopedale, Mass., assignor to Draper Company, Hopedale, Mass., and Portland, Me. Machine for spinning yarn	621,426	Mar. 21	1633	363	86	1843
Northrop, James H., Hopedale, Mass., assignor to Draper Company, Hopedale, Mass., and Portland, Me. Warp stop mechanism for looms	622,630	Apr. 4	794	185	87	151
Northrop, James H., Hopedale, Mass., assignor to Draper Company, Hopedale, Mass., and Portland, Me. Stopping mechanism for looms	623,174	Apr. 18	1819	417	87	382
Northrop, James H., Hopedale, Mass., assignor to Draper Company, Hopedale, Mass., and Portland, Me. Warp stop-motion for looms	623,732	Apr. 25	2799	640	87	593
Northrop, James H., Hopedale, Mass., assignor to Draper Company, Hopedale, Mass., and Portland, Me. Loom	624,371	May 2	768	172, 173	87	848
Northrop, James H., Hopedale, Mass., assignor to Draper Company, Hopedale, Mass., and Portland, Me. Loom	626,187	May 30	4160	947	87	1583
Northrop, James H., Hopedale, Mass., assignor to Draper Company, Hopedale, Mass., and Portland, Me. Loom	626,188	May 30	4165	947, 948	87	1584
Northrop, James H., Hopedale, Mass., assignor to Draper Company, Hopedale, Mass., and Portland, Me. Loom	628,893	July 11	1764	412	88	364
Northrop, James H., Hopedale, Mass., assignor to Draper Company, Hopedale, Mass., and Portland, Me. Warp stop-motion for looms	630,096	Aug. 1	699	150	88	862
Northrop, James H., Hopedale, Mass., assignor to Draper Company, Hopedale, Mass., and Portland, Me. Warp stop-motion for looms	638,593	Dec. 5	768	167	89	2013
Northrop, James H., Hopedale, Mass., assignor to Draper Company, Hopedale, Mass., and Portland, Me. Warp stop-motion for looms	639,182	Dec. 12	1802	417, 418	89	2238
Northrop, James H., Hopedale, Mass., assignor to Draper Company, Hopedale, Mass., and Portland, Me. Warp stop-motion for looms	640,150	Dec. 26	3610	831	89	2633
Northrop, James H., Tustin, Cal., assignor to Draper Company, Portland, Me., and Hopedale, Mass. Warp stop-motion for looms	625,191	May 16	2252	512	87	1175
Northrop, James H., Tustin, Cal., assignor to Draper Company, Portland, Me., and Hopedale, Mass. Back box-plate for looms	630,097	Aug. 1	703	151	88	863
Northrop, James H., Tustin, Cal., assignor to Draper Company, Portland, Me., and Hopedale, Mass. Loom and filling-carrier therefor	638,200	Nov. 28	4150	876	89	1846
Northrop, James H., assignor to G. Draper & Sons, Hopedale, Mass. Self-threading loom-shuttle	634,830	Oct. 10	1567	368	89	328
Northrop, Jonas, Hopedale, Mass., assignor to Draper Company, Hopedale, Mass., and Portland, Me. Loom	628,228	July 4	502	121	88	100
Northrop, Jonas and J. H., Hopedale, Mass., assignors to Draper Company, Hopedale, Mass., and Portland, Me. Warp stop-motion for looms	618,364	Jan. 24	2863	636	86	606
Northrop, Walter, Toronto, Canada. Fruit-dresser	624,851	May 9	1663	376	87	1046
Northrup, William, and J. Knowles, Buffalo, N. Y. Car-fender	621,476	Mar. 21	1738	387, 388	86	1863
Northup, H. Davis. (See Linindoll, Charles C., assignor.)						
Northway, Elmer E., Cleveland, Ohio. Locking device for wick-raisers	624,074	May 2	230	49	87	746
Northwestern Manufacturing Company. (See Lohda, Robert G., assignor.)						
Norton, Alfred N., St. Louis, Mo. Toy	624,962	May 16	1863	418	87	1102
Norton, Arthur O. (See Trefethen, Ervin T., assignor.)						
Norton Bros. (See Norton, Edwin, assignor.)						
Norton Brothers. (See Akin, Henry F., assignor.)						
Norton, Charles D., Bournemouth, England. Mirror or transom pivot	617,349	Jan. 10	941	217	86	203
Norton, Charles E., Lewiston, Me. Eyeglasses	622,779	Apr. 11	1069	248	87	222
Norton, Charles H., assignor to Brown & Sharpe Manufacturing Company, Providence, R. I. Grinding-machine	626,337	June 6	217	53	87	1654
Norton, Edwin, *et al.* (See Norton and Larkin, assignors.)						
Norton, Edwin. (See Russell, John, assignor.)						
Norton, Edwin, Maywood, Ill. Machine for hermetically sealing sheet-metal cans	620,247	Feb. 28	2651	604, 605	86	1380
Norton, Edwin, Maywood, Ill. Rolling thin sheets of steel or iron in packs	632,879	Sept. 12	1292	297	88	1976
Norton, Edwin, Maywood, assignor to Norton Bros., Chicago, Ill. Sheet-metal can	618,518	Jan. 31	3177	701	86	680
Norton, Edwin, and B. H. Larkin, assignors to E. Norton, Maywood, and O. W. Norton, Chicago, Ill. Sheet-metal can	618,718	Jan. 31	3529	788	86	749
Norton, Eugene E., Bridgeport, Conn. Reversing mechanism	623,381	Apr. 18	2187	502	87	456
Norton, F. Lee. (See Chalfant, Crawford D., assignor.)						
Norton, Frank L. (See Browne and Norton.)						
Norton, Frederick L., *et al.* (See Coomber, James, assignor.)						
Norton, James A. (See Mattes and Norton.)						
Norton, James A., Wilkes-Barré, Pa. Car-brake apparatus	624,239	May 2	548	117	87	803

Alphabetical list of patentees—Continued.

Name, residence, and invention.	No.	Date.	Monthly volume.		Official Gazette.	
			Spec.	Dr'g.	Vol.	Page.
Norton, James A., and C. J. Hinkley; said Norton assignor to J. H. Ketterer, Odebolt, Iowa. Door-catch	632,946	Sept. 12	1397	323	88	1997
Norton, Joshua, Boston, Mass. Digester-lining	638,267	Dec. 5	123	28	89	1889
Norton, Oliver W., *et al.* (See Norton and Larkin, assignors.)						
Norton, Stanley. (See McDonald and Norton.)						
Norton, Thomas E., Gosport, England. Anchor	625,192	May 16	2254	512	87	1175
Norton, Wendell P., Torrington, Conn. Friction driving device for shaping or other machines	622,160	Mar. 28	3020	683 684	86	2129
Norton, Wendell P., Torrington, Conn. Engine-lathe head	626,715	June 13	912	206 207	87	1809
Norton, William A., McGregor, Tex. Attachment for cultivators	618,519	Jan. 31	3179	702 703	86	680
Norton, William A., assignor of one-half to E. Mersereau, New York, N. Y. Wave-motor	632,139	Aug. 29	4473	1006 1007	88	1664
Norton, William B. (See Beals and Norton.)						
Norton, William B. (See Gilman, Norton, and Brown.)						
Norton, William T. (See McHenry and Norton.)						
Norwood, John E., Baltimore, Md., assignor to Baltimore Ball Bearing Company of Baltimore City, of Maryland. Antifriction-bearing for railway-cars	639,684	Dec. 19	2768	639	89	2445
Nott, John L., Roller, Md. Wrench	630,986	Aug. 15	2356	536	88	1220
Nottingham, Lloyd, Pikesville, assignor of one-half to S. H. Ballard, Baltimore, Md. Trousers-guard	633,889	Sept. 26	3152	732	88	2367
Nourie, Camille J. (See Weaver, Albert S., assignor.)						
Nourse, Rufus C., Boston, Mass. Electric-lighting gas-burner	636,056	Oct. 31	3915	898	89	832
Nourse, Rufus C., Boston, Mass. Electric-lighting gas-burner	636,057	Oct. 31	3917	899	89	832
Novelty Manufacturing Company. (See Boeck, Charles H., assignor.)						
Novelty Manufacturing Company. (See Fitzsimons, Oscar S., assignor.)						
Novelty Manufacturing Company. (See Kirschbaum, John, assignor.)						
Novotny, Frank, Badger, Minn. Neck-yoke	626,923	June 13	1333	293	87	1890
Nowacki, Paulin S., San Francisco, Cal. Water-lifting apparatus	635,504	Oct. 24	2866	654	89	614
Nowak, Gustav, Bistritz, Austria-Hungary. Apparatus for generating acetylene gas	636,835	Nov. 14	1150	247 248	89	1181
Noyes, Henry F., Mount Vernon, N. Y. Pipe-coupling	637,888	Nov. 28	3548	744	89	1728
Noyes, Horatio J., Ashtabula, Ohio. Damper	633,890	Sept. 26	3152	732	88	2367
Noyes, La Verne W., Chicago, Ill. Wire-twisting machine	619,782	Feb. 21	1825	417	86	1210
Noyes, La Verne W., Chicago, Ill. Dictionary-holder	621,363	Mar. 21	1538	341	86	1825
Noyes, La Verne W., Chicago, Ill. Oiling device for windmills	636,836	Nov. 14	1151	248	89	1181
Nuber, George D. (See Fritz, Louis, assignor.)						
Nugent, Edgar A., Unionville, N. Y. Combined stone gatherer and roller	624,852	May 9	1664	376	87	1046
Nugent, Joseph J., assignor of one-half to E. F. Van Hootegem, Merrill, Wis. Composition for blackboards	625,894	May 30	3540	------	87	1467
Nugent, William W., Chicago, Ill. Gravity center-oiler	626,291	June 6	129	33	87	1638
Nuhring, Charles, Cincinnati, Ohio. Hose-reel device	618,126	Jan. 24	2430	542	86	526
Numan, Isaac W., Canton, Ohio. Spray-pump	637,213	Nov. 14	1914	410	89	1328
Nungezer, George H., Pooler, Ga. Vine-cutting attachment for plows	634,366	Oct. 3	754	180	89	151
Nunn Brothers *et al.* (See Stukes, John M., assignor.)						
Nussbaum, Guillaume A., London, England. Steam-generator	636,837	Nov. 14	1152	248 249	89	1182
Nusser, George, Hoboken, N. J. Butcher's saw	617,178	Jan. 3	606	142	86	119
Nussey, George H., and W. B. Leachman, Leeds, England. Pressing cloth	633,388	Sept. 19	2259	532	88	2177
Nutt, Jasper N., Sidney, Ohio. Hopper for feeding grain, &c	636,280	Nov. 7	101	23	89	942
Nutt, William A., Urbana, Ohio. Flexible spout	622,706	Apr. 11	954	220	87	201
Nuttall, Richard, Sr., and Richard, Jr., Allegheny, Pa. Gas-engine	631,224	Aug. 15	2770	627	88	1302
Nuttall, Richard, Sr., and Richard, Jr., Allegheny, Pa. Gas-engine	640,018	Dec. 26	3370	771	89	2584
Nutter, Charles P., Malden, Mass. Equipment-carrier	639,429	Dec. 19	2298	531	89	2351
Nutting, Joseph, London, England. Feed-water regulator	627,760	June 27	2882	630	87	2234
Nutting, Lorenzo H., Davenport, Iowa. Operating mechanism for churns, washing-machines, &c	630,398	Aug. 8	1283	281	88	989
Nuver, Joseph, assignor to I. A. Hall, Paterson, N. J. Shuttle tension device	624,670	May 9	1320	294	87	979
Nyberg, Charles F. (See Farr and Nyberg.)						
Nye, Herman M., Elmwood, Nebr. Feed-water purifier and boiler-skimmer	624,963	May 16	1864	418	87	1102
Nye & Tredick. (See Riley, George, assignor.)						
Nye, Walter B. (See Agge and Nye.)						
Nye, Walter B., Brookline, Mass., assignor, by mesne assignments, to New York Filter Manufacturing Company, of New Jersey. Automatic regulating-weir for filters	617,860	Jan. 17	1914	429	86	412
Nye, Walter B., Brookline, Mass., assignor, by mesne assignments, to New York Filter Manufacturing Company, of New Jersey. Filter	617,861	Jan. 17	1916	429	86	413
Nye, William L., Akron, Ohio. Match-machine	623,217	Apr. 18	1892	434 435	87	396
Nygaard, Andrew C., Rawlins, Wyo. Bicycle	636,691	Nov. 7	835	185	89	1091
Nylander, Joseph L., Duluth, Minn. Roller attachment for sleds	630,987	Aug. 15	2356	536	88	1220
Nyman, John E., Oak Park, Ill. Dental saliva-ejector and tongue-depressor	637,970	Nov. 28	3690	776	89	1755
Nyvall, Albert. (See Hoage and Nyvall.)						
O. H. Jewell Filter Company. (See Jewell, Omar H. and W. M., assignors.)						
O. S. Kelly Company. (See Cadwgan, Thomas C., assignor.)						
O. S. Kelly Company. (See Wright, Edward T., assignor.)						
O'Brien, Arthur, assignor of one-half to A. Fack, Helena, Mont. Sanitary appliance	618,284	Jan. 24	2725	604	86	581
O'Brien, Arthur, assignor of three-fourths to A. Fack and M. A. Mitchell, Helena, Mont. Overflow, ventilating, and discharge fittings for closets	620,352	Feb. 28	2838	648	86	1416
O'Brien, Arthur, assignor of three-fourths to A. Fack and M. A. Mitchell, Helena, Mont. Spring-seat for water-closets	622,383	Apr. 4	314	72	87	60
O'Brien, Arthur, assignor of three-fourths to A. Fack and M. A. Mitchell, Helena, Mont. Seat and lid hinge	622,384	Apr. 4	315	73	87	60
O'Brien, Edward J., *et al.* (See Taylor, Robert W., Sr., assignor.)						
O'Brien, Henry J., and A. E. McKay, West Superior; said McKay assignor to W. P. Barrett, Superior, Wis. Railway-gate	621,699	Mar. 21	2144	477	86	1943
O'Brien, John, Manchester, Va. Car-coupling lock	625,895	May 30	3541	804	87	1467
O'Brien, John J., *et al.* (See Whitmarsh, Charles E., assignor.)						
O'Brien, John J., assignor of one-half to I. A. Rose, New York, N. Y. Puzzle	633,034	Sept. 12	1549	360	88	2026
O'Brien, Louis F. (See Eves and O'Brien.)						
O'Brien, Patrick D., assignor of one-half to M. Logue, Youngstown, Ohio. Rolling-mill shears	618,285	Jan. 24	2726	604	86	581
O'Brien, Patrick H. (See Ladd, George W., assignor.)						
O'Brien, Stephen, New York, N. Y. Pipe-hanger	624,671	May 9	1321	294	87	979
O'Brien, Thomas. (See Leecock, George, assignor.)						
O'Brien, Thomas J., Cairo, Ill. Clutch-pulley	634,367	Oct. 3	755	180	89	151

Alphabetical list of patentees—Continued.

Name, residence, and invention.	No.	Date.	Monthly volume.		Official Gazette.	
			Spec.	Dr'g.	Vol.	Page.
O'Brien, William. (See Post and O'Brien.)						
O'Brien, William D. (See Eves and O'Brien.)						
O'Brien, William F., and D. S. Keith, Whitman, Mass. Molding-machine for shank-stiffeners	629,809	Aug. 1	85	21	88	737
O'Brien, William H., *et al.* (See Walton, William L., assignor.)						
O'Connell, David D., Wallace, Idaho. Bracket-support for window-shades	625,593	May 23	2968	674	87	1339
O'Connell, James, and B. F. Hillery, New York, N. Y. Kiln or furnace	630,732	Aug. 8	1890	427	88	1103
O'Connell, John, assignor of one-half to L. A. Aumann, Chicopee, Mass. Safety locking device for cotton-beaters	639,685	Dec. 19	2770	639	89	2445
O'Connell, John M., Cleveland, Ohio. Oil-hurner	632,822	Sept. 12	1175	269	88	1956
O'Connell, Martin, West, Tex. Baling-press	621,365	Mar. 21	1544	342	86	1826
O'Conner, John B., Traer, Iowa. Milk-pasteurizing apparatus	636,281	Nov. 7	103	23	89	943
O'Connor, Dennis W., Newark, N. J. Saddle-support for bicycles	640,165	Dec. 26	3638	838	89	2640
O'Connor, John, Ely, Minn. Fastening handles to crosscut-saws	630,098	Aug. 1	704	151	88	863
O'Connor, John, assignor of one-half to J. Goodchild, guardian, New York, N. Y. Dumping-wagon	637,523	Nov. 21	2492	540	89	1457
O'Connor, Michael J. (See Sullivan and O'Connor.)						
O'Connor, Patrick J., Pittshurg, Pa. Confessional-register	628,229	July 4	504	122	88	100
O'Connor, Richard. (See Cornelius, Clyde, assignor.)						
O'Connor, William, Oakland, Cal. Mangle	634,584	Oct. 10	1147	272	89	245
O'Conor, Maurice M. J. O., Ballybrack, Ireland. Bottle and its stoppering	626,557	June 6	612	141	87	1733
O'Crowley, James J., Jersey City, N. J. Pump	623,617	Apr. 25	2615	597	87	558
O'Dell, Stephen E., Cedar Springs, assignor to A. H. Rice and D. E. Minor, Grand Rapids, Mich. Pruning-shears	625,896	May 30	3543	804	87	1467
O'Donnell, James B., Pittshurg, Pa. Churn	636,282	Nov. 7	104	23	89	943
O'Donnell, John G. (See Bloodgood and O'Donnell.)						
O'Donnell, Joseph A. (See O'Donnell, Michael J., assignor.)						
O'Donnell, Michael J., assignor to J. A. O'Donnell, Chicago, Ill. Motor-vehicle	637,015	Nov. 14	1521	327	89	1254
O'Donovan, T. C., *et al.* (See Porter and McKelvey, assignors.)						
O'Farrell, Michael J., Melhourne, Victoria. Bicycle-saddle	617,654	Jan. 10	1505	342	86	313
O'Hair, Dennis, Sterling, Ill. Expansion-joint separator	621,940	Mar. 28	2613	589	86	2047
O'Hara, James, Toronto, Canada. Covering for hodies impelled through water	632,738	Sept. 12	1008	234	88	1920
O'Hara, William H., New York, N. Y. Dredging apparatus	622,527	Apr. 4	623	146 147	87	118
O'Hare, Daniel, Washington, D. C. Calendar	623,813	Apr. 25	2979	682	87	629
O'Keefe, Daniel, Boston, Mass. Mechanical disintegration of ores	621,274	Mar. 14	1376	305	86	1781
O'Keefe, Daniel, assignor to W. O. Wehher, Boston, Mass. Treating ore	635,056	Oct. 17	1976	------	89	426
O'Keefe, Michael J., Turner's Falls, Mass. Burnishing-machine	619,987	Feh. 21	2183	497	86	1277
O'Lalor, John J. (See Shea and O'Lalor.)						
O'Leary, Harry J., Indianapolis, Ind. Nipple-wrench	628,414	July 4	864	203	88	166
O'Leary, Jeremiah, Valley Junction, Iowa. Nut-lock	632,275	Sept. 5	135	29	88	1734
O'Loughlin, Rohert S., Glens Falls, N. Y. Pattern for garments	632,361	Sept. 5	272	64	88	1761
O'Malley, Ira J., Chicago, Ill. Repair-clamp for pipes	633,607	Sept. 26	2670	623	88	2270
O'Malley, Thomas, McKeesport, assignor of one-half to J. R. O'Mally, Pittshurg, Pa., and E. L. O'Mally. Truss	616,958	Jan. 3	178	40	86	36
O'Mally, Edward L., *et al.* (See O'Malley, Thomas, assignor.)						
O'Mally, John R., *et al.* (See O'Malley, Thomas, assignor.)						
O'Marrow, Mattie, Paris, Tex. Churn	626,623	June 6	714	165	87	1753
O'Meara, Jeremiah, New York, N. Y. Valve	623,418	Apr. 18	2256	517	87	471
O'Meara, Michael J., and L. L. Calvert, Philadelphia, Pa. Fireproof floor and ceiling	626,560	June 6	618	142	87	1734
O'Neil, Jerry F., Lewiston, Me. Comhination-rule	630,100	Aug. 1	706	151	88	863
O'Neill, Henry G., assignor of twenty-nine thirty-seconds to J. Rooney, New York, N. Y., and A. Arnois, Philadelphia, Pa. Controlling high-tension currents	628,026	July 4	121	24	88	25
O'Neill, Henry G., assignor of twenty-nine thirty-seconds to J. Rooney, New York, N. Y., and A. Arnois, Philadelphia, Pa. Electrotherapeutic apparatus	628,351	July 4	758	175	88	146
O'Neill, Henry G., assignor of twenty-nine thirty-seconds to J. Rooney New York, N. Y., and A. Arnois, Philadelphia, Pa. Vacuum-electrode for therapeutic purposes	628,352	July 4	759	175	88	146
O'Neill, James E., Waupaca, Wis. Heel	620,667	Mar. 7	234	48	86	1548
O'Neill, R. B. (See Conner, Charles A., assignor.)						
O'Neill, Richard J., assignor of one-half to A. McCormick, Bloomington, Ill. Steam-hoiler	620,168	Feh. 28	2507	570	86	1354
O'Neill, Wesley, Russellville, Pa. Potato-planter	635,057	Oct. 17	1977	467 468	89	426
O'Rourke, John F., New York, N. Y. Dumping-bucket	627,306	June 20	2007	441	87	2044
O'Rourke, John F., New York, N. Y. Caisson	631,320	Aug. 22	2964	670	88	1358
O'Rourke, John F., New York, N. Y. Dumping-hucket	632,323	Sept. 5	212	49,50	88	1749
O'Rourke, William, Little Falls, N. Y. Dampening apparatus	623,257	Apr. 18	1964	448	87	412
O'Shea, Timothy, Chicago, Ill. Temporary support for window-sashes	634,308	Oct. 3	644	157	89	130
O'Sullivan Brothers. (See O'Sullivan, Humphrey, assignor.)						
O'Sullivan, Helena A. (See O'Sullivan, Thomas J., assignor.)						
O'Sullivan, Humphrey, Lowell, Mass. Safety-heel	618,128	Jan. 24	2432	543	86	526
O'Sullivan, Humphrey, Lowell, Mass. Cushion-sole	628,209	July 4	468	112	88	93
O'Sullivan, Humphrey, assignor to O'Sullivan Brothers, Lowell, Mass. Heel for boots or shoes	618,127	Jan. 24	2431	543	86	526
O'Sullivan, Humphrey, assignor to O'Sullivan Brothers, Lowell, Mass. Cushion-heel	625,897	May 30	3544	805	87	1468
O'Sullivan, John P. (See Green and O'Sullivan.)						
O'Sullivan, Michael J., assignor of one-half to W. R. Medearis, Nashville, Tenn. Checkrein-hook	621,500	Mar. 21	1783	397	86	1871
O'Sullivan, Thomas J., assignor to H. A. O'Sullivan, London, Canada. Making pigments	629,268	July 18	2439	------	88	509
Oakes, Helen. (See Oakes, Samuel E. and H.)						
Oakes, Lyle L. (See Hudson, Alhert E., assignor.)						
Oakes, Samuel E. and H., Passaic, N. J. Folding crih or cradle	628,350	July 4	755	174 175	88	145
Oakey, William V., assignor of one-half to J. R. Proctor, Red Oak, N. C. Tohacco-harvester	618,900	Feh. 7	142	31	86	833
Oakland, E. C., *et al.* (See Agnew, William C., assignor.)						
Oakland Iron Works. (See Booth, Charles S., assignor.)						
Oakley, Clifford H., Cleveland, Ohio. Lathe attachment for cutting ruhher or other rings	627,236	June 20	1877	411	87	2017
Oakley. Jesse R., Braddock, Pa. Window-sash lock	626,503	June 6	532	123	87	1717
Oakley, Theophield D., assignor of one-half to P. Shirike, Cincinnati, Ohio. Platen for printing-presses	636,547	Nov. 7	556	124	89	1033
Oakman, Erwin A., Chappells, S. C. Bicycle-gearing	633,149	Sept. 19	1790	421 422	88	2085
Oakman Motor Vehicle Company. (See Hertel, Max E., assignor.)						
Oates, George P. (See Buchwalter and Oates.)						
Oates, George P. (See Packham and Oates.)						
Oatway, George H. (See Dunlop and Oatway.)						
Ohenchain, Elder F., Logansport, Ind. Ball-hearing	617,764	Jan. 17	1718	386	86	373

Alphabetical list of patentees—Continued.

Name, residence, and invention.	No.	Date.	Monthly volume. Spec.	Monthly volume. Dr'g.	Official Gazette. Vol.	Official Gazette. Page.
Obenchain, Elder F., Logansport, Ind. Roller-bearing	635,505	Oct. 24	2867	654	89	614
Obenchain, Thomas J. (See Moore, Cotner, and Obenchain.)						
Oberbeck, George, Jersey City, N. J., assignor to Eagle Pencil Company, New York, N. Y. Penholder	624,853	May 9	1666	377	87	1047
Oberhammer, Ludwig, Munich, Germany. Gear-changing device for bicycles	624,964	May 16	1865	419	87	1103
Obermeyer, Sebastian, Pittsburg, Pa. Brick-making machine	633,891	Sept. 26	3153	732	88	2368
Oberndorf, Samuel, *et al.* (See Greenhow, Thomas P., assignor.)						
Oberst, Philip, West Superior, Wis. Car-loading apparatus	617,968	Jan. 17	2111	473	86	451
Oblosser, Sarah M. (See Oblosser, Ulysses C., assignor.)						
Oblosser, Ulysses C., assignor to S. M. Oblosser, Rohrsburg, Pa. Railway-signal	633,892	Sept. 26	3154	732, 733	88	2368
Obrig, Jacob A. T., assignor to Gall & Lembke, New York, N. Y. Eyeglass-guard	621,939	Mar. 28	2611	589	86	2047
Obrink, Per E., Pomeroy, Iowa. Corn-planter	635,342	Oct. 24	2509	583	89	544
Obry, Ludwig, Pola, Austria-Hungary. Device for starting torpedoes	621,364	Mar. 21	1540	341, 342	86	1826
Ocumpaugh, Charles H., Rochester, N. Y. Sash-pulley	619,212	Feb. 7	785	171	86	966
Ocumpaugh, Cbarles H., Rochester, N. Y. Trolley-catcher	619,213	Feb. 7	786	171	86	966
Ocumpaugh, Charles H., Rochester, N. Y. Sash-pulley	620,489	Feb. 28	3055	699	86	1458
Ocumpaugh, Charles H., Rochester, N. Y. Door-holder	629,753	July 25	3346	781	88	706
Oddesse Dampfpumpen Gesellschaft mit Beschränkter Haftung. (See Oddie, Philip F., assignor.)						
Oddie, Philip F., London, England, assignor to Oddesse Dampfpumpen Gesellschaft mit Beschränkter Haftung, Hamburg, Germany. Duplex direct-acting pumping apparatus	624,854	May 9	1667	377	87	1047
Odell, Rosa I., *et al.* (See Woodruff, Thomas S., assignor.)						
Odenkirk, Harry C., Cleveland, Ohio. Railway-switch	628,281	July 4	618	146	88	119
Odenkirk, Harry C., Cleveland, Ohio. Combined switch-stand and signal for railways	628,282	July 4	620	147	88	120
Oder, Robert S., Philadelphia, Pa. Register	618,719	Jan. 31	3532	788	86	750
Odgers, Matthew, assignor to Henry Disston & Sons, Incorporated, Philadelphia, Pa. Saw-set	636,168	Oct. 31	4148	951	89	879
Odson, Samuel, Springwater, Iowa. Collar-clasp	631,877	Aug. 29	3986	891	88	1568
Oeder, Fred M., and J. E. Wright, West Bay City, Mich. Beet-thinning shoe for cultivators	639,275	Dec. 19	1993	459	89	2291
Oefinger, John L., Chicago, Ill. Sash-lock	634,020	Oct. 3	69	18	89	18
Oehl, Henry, New York, N. Y. Acetylene-generating lamp	617,041	Jan. 3	361	87	86	69
Oehler, Anilin and Anilinfarben-Fabrik, K. (See Herbabny, Julius, assignor.)						
Oehlmann, Emil H. C., Berlin, Germany. Gas-lighting apparatus	626,558	June 6	614	141	87	1733
Oehring, Louis E. (See Ellicott and Oehring.)						
Oehring, Louis E., assignor to Western Electric Company, Chicago, Ill. Inking device for telegraph-registers	638,419	Dec. 5	447	92	89	1951
Oehring, Robert, Meadow Grove, Nebr. Metallic centerpiece for ceilings	632,584	Sept. 5	682	158	88	1842
Oehring, Robert, Meadow Grove, Nebr. Door-fastener	634,181	Oct. 3	363	93	89	75
Oehrle, Emanuel, *et al.* (See Bagley, Frank A., assignor.)						
Oelschlaegel, Carl, assignor to Actien-Gesellschaft für Anilin Fabrikation, Berlin, Germany. Blue-black wool-dye and making same	628,025	July 4	120	------	88	25
Oelschläger, Ernst G. P., Westend, Germany, assignor to Siemens & Halske Electric Company of America, Chicago, Ill. System of distributing alternating currents	637,819	Nov. 28	3412	713	89	1699
Oester, Charles H., San Francisco, Cal. Cleaner for sifter-drums	624,965	May 16	1867	419	87	1103
Oesterla, Adam C. (See Hildebrandt and Oesterla.)						
Oesterreich, Amandus J. A., Hamburg, Germany, assignor to Singer Manufacturing Company, Elizabeth, N. J. Hemstitch sewing-machine	630,099	Aug. 1	705	151	88	863
Oetling, Carl, Dresden, Germany. Speed-measure	630,555	Aug. 8	1595	356	88	1047
Ofeldt, August W., Nyack, N. Y. Fluid-pressure engine	639,088	Dec. 12	1642	380	89	2205
Officer, Thomas, Claremont, N. H., assignor to Sullivan Machinery Company, of New Hampshire. Valve for rock-drills	627,703	June 27	2784	610	87	2212
Ofsky, Friedrich W., Leipsic-Gohlis, Germany. Combined pianoforte and mechanical music-work	635,387	Oct. 24	2627	606	89	568
Ogborn, Harrison, Indianapolis, Ind. Burner for hydrocarbon liquids	624,372	May 2	772	173, 174	87	848
Ogden, Alonzo W., Amesbury, Mass. Running-gear	628,230	July 4	505	122	88	101
Ogden, George, Ogden, Tex. Cotton-distributer	633,479	Sept. 19	2405	566, 567	88	2206
Ogden, George, Ogden, assignor of one-half to N. T. Bryson, Finis, Tex. Gin-saw cleaner	633,480	Sept. 19	2407	567	88	2206
Ogden, John E. L., London, England. Steam-trap	630,399	Aug. 8	1284	281	88	989
Ogden, John W., Plainfield, N. J. Motor-vehicle	637,750	Nov. 21	3280	684, 685	89	1653
Ogden, Washington, Fall River, Mass. Weaver's scratch-up and pick-out comb	620,490	Feb. 28	3056	699	86	1458
Ogletree, Joseph C., New Albany, Ind. Boiler-flue cleaner	620,608	Mar. 7	103	20	86	1522
Ohaven, Charles, and F. P. Uhrig, Fort Madison, Iowa; said Uhrig assignor to said Ohaven. Harrow	632,196	Aug. 29	4585	1032	88	1685
Ohio Cultivator Company. (See Kouns, Moses W., assignor.)						
Ohio Flint Glass Company. (See Schreiber, Herman, assignor.)						
Ohio Injector Company. (See Young, Edwin J., assignor.)						
Ohio Match Company. (See Young, Edwin J., assignor.)						
Ohio Rake Company. (See Lathrop, Frank K., assignor.)						
Ohio Steel Company. (See Veilgaard and McDonald, assignors.)						
Ohl, George A., Jr., Newark, N. J. Machine for making sheet-metal lath	619,086	Feb. 7	544	114, 115	86	916
Ohl, George A., Newark, N. J. Sash-operating mechanism	626,030	May 30	3843	872	87	1524
Ohlhaver, Johann D. G., Hamburg, Germany. Centrifugal-separator liner	635,579	Oct. 24	2998	688	89	639
Ohlsen, Wilhelm. (See Hoffmann and Ohlsen.)						
Ohlsson, Olof, Newark, N. J. Centrifugal butter-extractor	621,127	Mar. 14	1120	244	86	1730
Ohlsson, Olof, Södertelje, Sweden. Journal-bearing for centrifugal apparatus	631,995	Aug. 29	4191	943	88	1607
Ohmer Car Register Company. (See Ohmer and Tyler, assignors.)						
Ohmer, John F., and H. Tyler, Dayton, Ohio, assignors to Ohmer Car Register Company, Rochester, N. Y. Mechanism for operating fare-registers	635,343	Oct. 24	2510	583, 584	89	544
Ohmer, Wilfred I., and W. M. Kelch, Dayton, Ohio. Printing and registering machine	626,084	May 30	3938	894, 895, 896	87	1541
Ohnemus, Anton, Quincy, Ill. Stove-damper	617,256	Jan. 3	751	175	86	148
Ohnemus, Anton, Quincy, Ill. Stove	638,134	Nov. 28	4026	848	89	1820
Ohnemus, Anton, and H. Sanner, Quincy, Ill. Stove-damper	623,417	Apr. 18	2355	517	87	471
Ohring, John, San Francisco, Cal. Door opening and closing device	636,169	Oct. 31	4149	951, 952	89	879
Oil Fuel Saving Company. (See Johnson, August, assignor.)						
Oil Well Supply Company. (See Bray, Thomas J., assignor.)						
Okun, Moses S., New York, N. Y. Electric-arc lamp	620,665	Mar. 7	230	47,48	86	1547

Alphabetical list of patentees—Continued.

Name, residence, and invention.	No.	Date.	Monthly volume.		Official Gazette.	
			Spec.	Dr'g.	Vol.	Page.
Okun, Moses S., New York, N. Y. Electric-arc lamp	631,965	Aug. 29	4134	930 931	88	1597
Olcen, Peter A., Brandon, Canada. Carpet-beating machine	636,351	Nov. 7	207	45	89	963
Old, James, Pittsburg, Pa. Water-closet	629,462	July 25	2804	651	88	602
Oldenbusch, Ernest, Jersey City, assignor to W. Schimper & Co., Hoboken, N. J. Handle for toilet articles	628,673	July 11	1382	323	88	287
Oldenbusch, Ernest, Jersey City, assignor to W. Schimper & Co., Hoboken, N. J. Picture-frame	631,657	Aug. 22	3578	806	88	1480
Oldenbusch, Ernest, assignor to W. Schimper & Co., Hoboken, N. J. Ink-well stand	629,088	July 18	2137	497	88	455
Oldham, Joseph M., Afton, Minn. Pneumatic sprayer	625,594	May 23	2969	675	87	1339
Oldham, Joshua, New York, N. Y. Machine-knife	623,031	Apr. 11	1525	353	87	311
Oldham, William, Ottumwa, Iowa. Rotary engine	630,400	Aug. 8	1285	281 282	88	989
Olds, Anson J., Waveland, Fla. Cot	623,814	Apr. 25	2983	683	87	630
Olds, Henry G., Fort Wayne, Ind. Vehicle-hub	622,254	Apr. 4	93	21	87	22
Olds, Ransom E., Lansing, Mich. Electric igniter for gas-engines	635,506	Oct. 24	2869	655	89	614
Oler, William A., Dublin, assignor of one-half to W. L. Noftsker, Elwood, Ind. Car-coupling	627,761	June 27	2883	630	87	2234
Oleson, John P. (See Cox, John S., assignor.)						
Oliger, Jacob D. (See Hunter, Victor E., assignor.)						
Oliger, Stephan, Burkettsville, Ohio. Car-step	620,666	Mar. 7	232	48	86	1547
Olin, Gustaf O., assignor of one-half to E. Anderson, Chicago, Ill. Work-holder	633,893	Sept. 26	3156	733	88	2368
Olinger, Elemuel I., Unionville, Mo. Reel	639,930	Dec. 26	3214	737	89	2552
Olinger, Jacob M., Vienna Cross Roads, Ohio. Wire-tightener	624,524	May 9	1066	240	87	929
Olinger, John D., Fincastle, Ky. Trap	639,606	Dec. 19	2608	599	89	2414
Oliphant, Abraham, Stillwater, Ohio. Draft attachment for vehicles	623,815	Apr. 25	2984	683	87	630
Oliphant, Homer L., Cincinnati, assignor of one-half to J. W. Mood, Stanford, and A. F. Mood, Buena Vista, Ind. Thill-coupling	618,432	Jan. 31	3025	669	86	652
Oliphant, Homer L., Cincinnati, Ohio, and A. F. Mood, Buena Vista, Ind. Thill-coupling	624,525	May 9	1067	241	87	929
Oliphant, William, Glasgow, Scotland. Game	638,982	Dec. 12	1471	337	89	2174
Oliver, Alfred, Alpena, Mich. Rotary engine	622,013	Mar. 28	2751	621	86	2075
Oliver, Charles H., *et al.* (See Beighey, William J., assignor.)						
Oliver, Frederick. (See Eggleston and Oliver.)						
Oliver, Hedley, London, England. Valve	622,385	Apr. 4	316	73	87	60
Oliver, Herbert R., *et al.* (See Schneider, George, assignor.)						
Oliver Iron and Steel Company. (See Bagnall, William, assignor.)						
Oliver, James, assignor to South Bend Iron Works, South Bend, Ind. Plow	628,632	July 11	1314	306	88	274
Oliver, Nathan. (See Oliver, Romaine, assignor.)						
Oliver, Romaine, Scipio, assignor of one-half to N. Oliver, Auburn, N. Y. Door hanger and track	630,733	Aug. 8	1892	427	88	1104
Oliver, Thomas, Woodstock, Ill. Attachment for type-writing machines	617,350	Jan. 10	942	217	86	203
Oliver, Zebulon, Tesla, Tex. Truss	631,658	Aug. 22	3579	807	88	1480
Olivetti, Camillo. (See Arcioni, Vittorio, assignor.)						
Ollagnier, Joannes, M. Fructus, and E. Descher, Lyons, France. Manufacture of silk fabrics	625,120	May 16	2141	486	87	1154
Olmesdahl, August, assignor to W. Olmesdahl, New York, N. Y. Gripper for printing-presses	629,089	July 18	2138	497	88	455
Olmesdahl, William. (See Olmesdahl, August, assignor.)						
Olmstead, Levi W., Galeton, Pa. Safety attachment for car-trucks	638,398	Dec. 5	407	85	89	1943
Olney, George, assignor to J. B. Olney and R. N. Anderson, New York, N. Y. Composition of matter	627,008	June 13	1488	------	87	1921
Olney, James B., *et al.* (See Olney, George, assignor.)						
Olney, James P., Rome, N. Y. Exhibition-jar	632,321	Sept. 5	207	48	88	1748
Olsen, Andrew, Nanaimo, assignor of one-half A. E. Fraser, Vancouver, Canada. Lifting-jack	632,197	Aug. 29	4586	1033	88	1685
Olsen, Christen, Ishpeming, Mich. Apparatus for displaying samples of wall-paper	623,817	Apr. 25	2988	684	87	631
Olsen, John B. (See Kroscher and Olsen.)						
Olsen, Karl, New York, N. Y. Joint for fracture apparatus	621,366	Mar. 21	1546	342	86	1826
Olsen, Martin H., Chicago, Ill. Engine for hand-drills	623,816	Apr. 25	2986	683 684	87	630
Olsen, Signe C. (See McIntire and Holden, assignors.)						
Olsen, William A. (See Reimer and Olsen.)						
Olson, Abram, Dalstrop, Minn. Guitar-bridge	621,700	Mar. 21	2146	478	86	1943
Olson, Andrew. (See Peterson and Olson.)						
Olson, Anton. (See Steele and Olson.)						
Olson, Charles. (See Lagerquist, Henry, assignor.)						
Olson, Charles, Des Moines, Iowa. Composite block for soft treads	637,741	Nov. 21	3262	680	89	1650
Olson, Charles, assignor of one-half to H. Lagerquist, Des Moines, Iowa. Composite soft tread	637,277	Nov. 21	2031	436	89	1366
Olson, Christopher C., Fouts, Okla. Ter. Stay-wire-applying device	633,894	Sept. 26	3158	733	88	2369
Olson, Edward, Seattle, Wash. Wrench	622,707	Apr. 11	955	220	87	201
Olson, Ezra B., Oleona, Pa., assignor to Simonds Manufacturing Company, Fitchburg, Mass. Saw-handle	635,973	Oct. 31	3759	867	89	800
Olson, Ezra B., Oleona, Pa., assignor to Simonds Manufacturing Company, Fitchburg, Mass. Saw-handle	638,268	Dec. 5	124	28	89	1889
Olson, Fredrick, J. Kaiser, and J. Knivel, Calumet, Mich. Snow-plow	629,917	Aug. 1	333	74	88	787
Olson, Håkan, Soperville, Ill. Whiffletree-hook	624,373	May 2	775	174	87	849
Olson, John O. (See Meyer, Arnt, assignor.)						
Olson, Louis C. (See Sunne and Olson.)						
Olson, Martin, New York, N. Y. Cleaning and polishing machine	636,352	Nov. 7	209	46	89	963
Olson, Nels H., *et al.* (See Berg, Theodore, assignor.)						
Olson, Olaf F., *et al.* (See Berg, Theodore, assignor.)						
Olson, Olaus, and J. A. Johanson, New York, N. Y. Merry-go-round	630,003	Aug. 1	517	113	88	825
Olson, Oliver N., C. H. Smith, and W. C. Belina, Owatonna, Minn. Chainless bicycle	622,780	Apr. 11	1070	249	87	222
Olsson, Ored, Ord, Nebr. Windmill	626,559	June 6	615	141 142	87	1734
Olsted, Christian, Tonganoxie, Kans. Stove	627,136	June 20	1704	374	87	1982
Olsted, Christian, Tonganoxie, Kans. Cooking-stove	630,921	Aug. 15	2227	507	88	1194
Oltmann, Diedrich, New York, N. Y. Water-vehicle	632,276	Sept. 5	136	29	88	1734
Onderdonk, Lansing, Boston, Mass., assignor to Union Special Sewing Machine Company, Chicago, Ill. Folder for sewing machines	630,628	Aug. 8	1734	388	88	1073
Ondrak, Jacob A., New York, N. Y. Fitting or draping stand	637,971	Nov. 28	3691	776	89	1755
Oneil, John C. (See Higgins and Oneil.)						
Onken, Georg W. (See Konrad, Franz, assignor.)						
Onken, Georg W. (See Lange, Carl O., assignor.)						
Onward Company. (See Reed, Albert S., assignor.)						
Oothout, Helena L., Fresno, Cal. Bowl-holding device	630,734	Aug. 8	1893	427	88	1104

Alphabetical list of patentees—Continued.

Name, residence, and invention.	No.	Date.	Monthly volume. Spec.	Monthly volume. Dr'g.	Official Gazette. Vol.	Official Gazette. Page.
Open Arc Carbon Company. (See Bacon, Daniel, assignor.)						
Oppal, Emma T., assignor of one-half to M. Kammerer, Philadelphia, Pa. Clip or fastener	637,479	Nov. 21	2414	524	89	1443
Oppen, Ole K., Worthington, Minn. Harrow	633,270	Sept. 19	2023	475	88	2132
Oppenheimer, Gustav, *et al.* (See Buddeus, Wilhelm, assignor.)						
Oppenheimer, Herman, *et al.* (See Wolff, Herrmann, assignor.)						
Opper, Frederick C., Hartford, assignor of one-half to T. F. Kane, Southington, Conn. Bung for beer-barrels	626,716	June 13	914	207	87	1809
Oppermann, Julius. (See Elbel and Oppermann.)						
Optenberg, John H. (See Nicla, Optenberg, and Sonneman.)						
Oram, John S., Cleveland, Ohio. Antifriction-bearing	637,016	Nov. 14	1524	327	89	1254
Oram, John S., Cleveland, Ohio. Machine elements	637,017	Nov. 14	1525	328	89	1255
Orbeton, Louisa A. (See Orbeton, William W. S., assignor.)						
Orbeton, William W. S., Cliftondale, assignor of one-half to L. A. Orbeton, Medfield, Mass. Urinal	622,631	Apr. 4	796	185	87	151
Orchard, Hugh A., Roodhouse, Ill. Mail-bag deliverer and receiver	637,651	Nov. 21	3099	641, 642	89	1617
Ordway, Albert H., South Framingham, Mass. Spring rocking-chair	635,179	Oct. 17	2225	519	89	474
Ordway, Albert H., South Framingham, Mass. Wood or ratan twisting or shaping device	637,652	Nov. 21	3101	642	89	1617
Ordway, Charles, Toledo, Ohio. Burial couch and casket	636,283	Nov. 7	105	23	89	943
Ordway, John M., New Orleans, La. Purifying liquids	621,128	Mar. 14	1122	------	86	1731
Orewiler, Benjamin F., Shelby, assignor of one-fifth to G. H. Reinberger, Cleveland, Ohio. Hook and eye	628,674	July 11	1384	324	88	287
Orewiler, Benjamin F., Shelby, assignor of one-third to G. H. Reinberger, Cleveland, Ohio. Hose-supporter	631,659	Aug. 22	3580	807	88	1481
Orford, John M. (See Mordey, William M., assignor.)						
Orford, Richard, St. Joseph, Mich. Spray attachment	624,240	May 2	550	117	87	804
Orient Manufacturing Company. (See Mariner, Abbott L., assignor.)						
Orloff, Ivan, St. Petersburg, Russia. Multicolor-printing press	632,322	Sept. 5	209	48, 49	88	1748
Ormand, David. (See Martin and Ormand.)						
Ormerod, John, New York, N. Y. Siphon-head	617,655	Jan. 10	1506	342	86	313
Ormerod, John, New York, N. Y. Mineral-water head	623,218	Apr. 18	1894	435	87	397
Ormerod, John, New York, N. Y. Syrup-jar	626,085	May 30	3943	896	87	1543
Ormsby, William P., assignor to Morgan & Hamilton Company, Nashville, Tenn. Printing apparatus for bag-machines	618,286	Jan. 24	2728	604, 605	86	581
Orndorff, Thomas C., Worcester, Mass. Carrier for small-arms fixed ammunition	635,145	Oct. 17	2173	506	89	464
Orosz, Louis M., Erzsébetfalva, assignor of one-half to M. Hay, Buda-Pesth, Austria-Hungary. Coupling for railway-cars	630,817	Aug. 8	2040	460	88	1135
Orpin Brothers. (See Craig, Isaac S., assignor.)						
Orr, Leonard D., Pegram, Ill. Weighing apparatus	624,374	May 2	776	174	87	849
Orrell, Ephraim E., Ware, Mass. Thread-tying device	624,672	May 9	1322	295	87	979
Orrell, Leslie C., Chicago, Ill. Fuse-plug	617,765	Jan. 17	1720	386	86	373
Ort, Jacob, Wahoo, Nebr. Casket-pedestal	628,633	July 11	1315	306, 307	88	274
Orteig, Jean, Phœnix, Ariz. Ter. Horse-detacher	628,956	July 18	1892	439	88	405
Orth, Frederick, New York, N. Y., and F. Schimper, Union, N. J. Underback	639,761	Dec. 26	2919	672	89	2493
Ortlieb, Frederick, Lehigh, Ind. Ter. Gold-washing machine	622,255	Apr. 4	94	21, 22	87	22
Ortmans, Victor C. J., Brussels, Belgium. Tubular heater, &c	626,924	June 13	1334	294	87	1890
Orvis, Orel D., Chicago, Ill. Downdraft-furnace	633,271	Sept. 19	2025	476, 477	88	2132
Orwig, Thomas G. (See Hoit, Jacob R., assignor.)						
Osang, Robert, assignor to Patent-Cartonnagen-Fabrik, Berlin, Germany. Paper-box machine	637,152	Nov. 14	1789	384	89	1304
Osberg, Carl L. (See Breeze, Herbert J., assignor.)						
Osborn, Byron E., Auburn, N. Y. Electric-railway system	625,796	May 30	3344	760	87	1430
Osborn, Clinton S., Detroit, Mich. Bread-cutter	638,135	Nov. 28	4028	849	89	1821
Osborn, George W., London, England. Manufacture and hanging of wall-paper	634,625	Oct. 10	1212	287	89	258
Osborne, Eugene F., assignor to Osborne Steam Engineering Company, Chicago, Ill. Steam-heating apparatus	624,526	May 9	1070	241	87	930
Osborne, Francis M. (See Cloud and Osborne.)						
Osborne, James R., Shelby, N. C. Porcelain tooth-crown	636,284	Nov. 7	108	24	89	944
Osborne, John H., Anderson, Ind. Lifting-jack	626,086	May 30	3944	896	87	1543
Osborne, John W., Washington, D. C. Art of and apparatus for making ready forms for printing	626,031	May 30	3846	872, 873, 874	87	1525
Osborne, John W., assignor of one-half to G. Hart, Exeter, Ill. Portable heater	631,966	Aug. 29	4138	931	88	1598
Osborne, Oscar E., Ashtabula, Ohio. Rope-controller	637,820	Nov. 28	3414	713	89	1700
Osborne Steam Engineering Company. (See Osborne, Eugene F., assignor.)						
Osborne, William S., assignor of one-half to E. C. Bryant, St. Louis, Mo. Dust-collector	638,983	Dec. 12	1472	337, 338	89	2174
Osbourne, David K., Cranford, N. J., assignor to Hygienic Appliance Company, New York, N. Y. Sanitary appliance, commode, &c	638,269	Dec. 5	125	28, 29	89	1890
Osbourne, David K., Cranford, N. J., assignor to Hygienic Appliance Company, New York, N. Y. Sanitary appliance, commode, &c	638,270	Dec. 5	127	29	89	1890
Osburn, Harry G., Chicago, Ill. Accumulator-plate	625,938	May 30	3614	822	87	1481
Osburn, Harry G., Chicago, Ill. Separator for accumulator-plates	631,810	Aug. 29	3872	864	88	1545
Osenbach, Alfred C. and C. T., Rittersville, and W. H. Bregenzer, Coopersburg, Pa. Station-indicator	618,185	Jan. 24	2558	565	86	548
Osenbach, Charles T. (See Osenbach and Bregenzer.)						
Osenbaugh, Charles M., *et al.* (See Poppert, Peter H., assignor.)						
Osgood, Herman D., Concord, Mass. Dental impression-cup	637,480	Nov. 21	2415	524	89	1443
Osgood, Isaac, Amesbury, Mass. Axle-bearing	630,556	Aug. 8	1596	356	88	1047
Osgood, John E., assignor to Warner Manufacturing Company, Greenfield, Mass. Stop or brake for childrens' carriages	633,767	Sept. 26	2950	684, 685	88	2326
Osgood, John L., Buffalo, N. Y. Trolley-wheel	638,470	Dec. 5	548	113	89	1972
Osler, Edward S. (See Carpenter, George A., assignor.)						
Osler, Horace N., *et al.* (See Campbell, George L., assignor.)						
Osman, James O., Norcatur, Kans. Educational appliance	629,046	July 18	2049	477	88	436
Osmond, John, Chicago, Ill. Portable folding boat	624,375	May 2	779	175	87	850
Osse, Edward A., Baltimore, Md. Planisphere	635,268	Oct. 17	2374	554, 555	89	501
Ostad, Ole, and M. H. Welta, assignors of one-half to C. F. and M. Hawkinson, Farwell, Minn. Adjustable stove-grate	624,673	May 9	1324	295	87	979
Ostendorf, H. J. (See Heymann, Henry L., assignor.)						
Ostberg, John, St. Kilda, Victoria. Rubber repairing compound for pneumatic tires	637,018	Nov. 14	1526	------	89	1255

Alphabetical list of patentees—Continued.

Name, residence, and invention.	No.	Date.	Monthly volume. Spec.	Monthly volume. Dr'g.	Official Gazette. Vol.	Official Gazette. Page.
Ostenberg, John A., Westminster, Vt., assignor to F. M. Gilbert, Walpole, N. H. Weighing-machine	636,058	Oct. 31	3918	899, 900	89	833
Oster, John, Jr., Newport, Ky. Piano-hammer	622,065	Mar. 28	2833	638	86	2091
Osterberg, Carl A., Boston, Mass. Pianoforte-flange	634,474	Oct. 10	949	225	89	207
Osterberg, Max, and A. Fischer, New York, N. Y. Apparatus for producing igniting-sparks	625,410	May 23	2651	602	87	1277
Ostergren, Oscar P., and M. Burger, New York, N. Y., assignors to General Liquid Air and Refrigerating Company, of New Jersey. Apparatus for liquefying air	621,536	Mar. 21	1850	411	86	1884
Ostergren, Oscar P., and M. Burger, New York, N. Y., assignors to General Liquid Air and Refrigerating Company, of New Jersey. Apparatus for liquefying gas	621,537	Mar. 21	1851	411	86	1884
Ostrom, Freeland W., assignor to Wheeler & Wilson Manufacturing Company, Bridgeport, Conn. Stop-motion for sewing-machines	622,632	Apr. 4	796	185, 186	87	151
Ostrom, Freeland W., assignor to Wheeler & Wilson Manufacturing Company, Bridgeport, Conn. Buttonhole-sewing machine	623,618	Apr. 25	2616	597, 598	87	559
Ostrom, Freeland W., assignor to Wheeler & Wilson Manufacturing Company, Bridgeport, Conn. Thread-controller for buttonhole-sewing machines	626,087	May 30	3946	896, 897	87	1543
Ostrom, Freeland W., assignor to Wheeler & Wilson Manufacturing Company, Bridgeport, Conn. Buttonhole-sewing machine	626,189	May 30	4167	948, 949	87	1584
Oswald, Richard W., Bloomsburg, Pa. Car-truck	621,275	Mar. 14	1379	305	86	1782
Oswald, Richard W., assignor of one-half to E. B. Tustin, Bloomsburg, Pa. Sill or stringer for cars	622,971	Apr. 11	1414	326	87	289
Oswald, Richard W., assignor of one-half to E. B. Tustin, Bloomsburg, Pa. Truck-bolster for cars	637,278	Nov. 21	2031	436	89	1366
Oswald, Richard W., assignor of one-half to E. B. Tustin, Bloomsburg, Pa. Car-bolster	638,749	Dec. 12	1070	239	89	2096
Oswego Machine Works. (See Lockwood, Edward M., assignor.)						
Otero, Juan L., Lima, Peru. Inkstand	626,925	June 13	1336	294	87	1890
Otis Elevator Company. (See Foster, Charles E., assignor.)						
Otis Elevator Company. (See Fraser, Ethelbert M., assignor.)						
Otis, Frederick J., Apollonia, Wis. Penholder	618,255	Jan. 24	2673	592	86	570
Otis, Norton P. (See Burroughs, Charles E., assignor.)						
Otis, Spencer, Omaha, Nebr. Bolster	627,348	June 20	2094	462	87	2061
Ott, Edward, Johnstown, Pa., assignor to Lorain Steel Company, of Pennsylvania. Railway-track structure	633,728	Sept. 26	2885	670	88	2313
Ott. Mergenthaler Company. (See Mergenthaler, Ottmar, assignor.)						
Ott. Mergenthaler Company. (See Muehleisen, Carl, assignor.)						
Ottawa Truss and Surgical Manufacturing Company. (See Cullis, John M., assignor.)						
Otten, Gerrit C., and K. F. Henneman, The Hague, Netherlands. Alcohol or spirit lamp	623,555	Apr. 25	2503	575	87	538
Otten, Joseph V., Iola, Kans. Smelting-furnace	633,035	Sept. 12	1550	360	88	2026
Ottenheimer, Fanny R., San Francisco, Cal. Hat-holding attachment for chairs	628,605	July 11	1221	286	88	256
Ottesen, Hans R., Hanover, Germany. Electric-arc lamp	626,717	June 13	915	208	87	1810
Otto, Albert T., Chicago, Ill., assignor to R. L. Stevens, Hoboken, N. J. Steering-propeller	629,966	Aug. 1	447	96	88	811
Otto Gas Engine Works. (See Winand, Paul A. N., assignor.)						
Otto, Marius, Paris, France. Apparatus for purifying water	624,527	May 9	1075	241	87	930
Otto, Max. (See Lang, Pistor, and Otto.)						
Otto, William J., Denver, Colo. Bicycle	629,389	July 25	2574	624	88	577
Ottow, Carl. (See Scherff, Rehdorff, and Ottow.)						
Otwell, Charles G., *et al.* (See Melson, John T., assignor.)						
Otwell, George H., *et al.* (See Melson, John T., assignor.)						
Oudin, Charles P., assignor to Acme Supply Company, New York, N. Y. Mail-marking machine	618,720	Jan. 31	3523	789, 790	86	750
Outcalt, David D. A. (See Outcalt, John and D. D. A.)						
Outcalt, John and D. D. A., Spotswood, N. J. Automatic weigher	618,129	Jan. 24	2433	543, 544	86	526
Outcalt, John and D. D. A., Spotswood, N. J. Weighing-machine	628,894	July 11	1765	413, 414	88	364
Outcalt, John and D. D. A., Spotswood, N. J. Label-affixing machine	635,108	Oct. 17	2092	492	89	449
Over, Matilda. (See Cleveland, George E., assignor.)						
Overall, John A., assignor of one-half to A. W. Kinzer, De Lassus, Mo. Nut-lock	639,607	Dec. 19	2610	600	89	2415
Overbeck, Otto G. C. L. J., Grimsby, England. Making nutritive extracts	632,968	Sept. 12	1433	------	88	2004
Overbeck, William A., Omaha, Nebr. Automatic package-filler	622,972	Apr. 11	1416	326	87	289
Overbey, William D. (See Doughty, Charles H., assignor.)						
Overbury, Frederick C. (See Blumenberg and Overbury.)						
Overman, John. (See Schrader and Overman.)						
Overman Wheel Company. (See Knox, Harry A., assignor.)						
Overmyer, Charles G., Topeka, Kans. Baling-press	619,605	Feb. 14	1458	335, 336	86	1112
Overmyer, Charles F., Upper Sandusky, Ohio. Cutter-head	628,841	July 11	1676	391	88	347
Overn, Thomas J. (See Grant, Overn, and House.)						
Oversen, Ole. (See Tveit and Oversen.)						
Overshiner, Gideon J., San Diego, assignor to C. Paine, San Diego county, Cal. Reversible plow	625,461	May 23	2741	624	87	1293
Overshiner, James M., Elwood, Ind. Telephone-switchboard	617,691	Jan. 10	1572	356	86	325
Overshiner, James M., Elwood, Ind. Telephone-switchboard	617,692	Jan. 10	1576	357	86	326
Overshiner, James M., Elwood, Ind. Telephone-switchboard	618,610	Jan. 31	3332	741	86	710
Overshiner, James M., Elwood, Ind. Telephone-switchboard	620,491	Feb. 28	3057	699	86	1458
Overshiner, James M., Elwood, Ind. Telephone-switchboard	624,075	May 2	231	49	87	746
Overshiner, James M., Elwood, Ind. Telephone-switchboard	625,797	May 30	3346	760, 761	87	1431
Overstrom, Gustave A. (See Bartlett and Overstrom.)						
Overton, Frank, and C. A. McCally, La Grange, Ind. Clothes-drier	625,595	May 23	2971	675	87	1339
Ow. Alexander, New Brighton, Pa. Leg-fastening for bath-tubs	619,988	Feb. 21	2185	497	86	1278
Owatonna Manufacturing Company. (See Howe, Ames, and Labare, assignors.)						
Owen, David B. (See Tice, William A., assignor.)						
Owen, David E., Garlo, Ohio. Window-chair	620,248	Feb. 28	2653	605	86	1380
Owen, Edwin, Scotts, Mich. Wire fence	631,321	Aug. 22	2966	670	88	1358
Owen, George F., Grand Rapids, Mich. Acetylene-gas generator	618,801	Jan. 31	3674	823	86	778
Owen, Henry A. (See Taft and Owen.)						
Owen, Henry A., assignor to Whitin Machine Works, Whitinsville, Mass. Spinning-machine	618,233	Jan. 24	2637	582	86	563
Owen, Henry A., assignor to Whitin Machine Works, Incorporated, Whitinsville, Mass. Traverse-motion for spinning-machines	637,019	Nov. 14	1527	328	89	1255
Owen, John, Pittsburg, Pa. Step-ladder	629,589	July 25	3053	712	88	650
Owen, Ole, *et al.* (See Severance, William N., assignor.)						
Owen, Oscar L., Whitinsville, Mass. Take-up mechanism for looms	621,538	Mar. 21	1854	412	86	1884

Alphabetical list of patentees—Continued.

Name, residence, and invention.	No.	Date.	Monthly volume. Spec.	Monthly volume. Dr'g.	Official Gazette. Vol.	Official Gazette. Page.
Owen, Oscar L., assignor to Whitin Machine Works, Incorporated, Whitinsville, Mass. Roving-traverse mechanism	637,020	Nov. 14	1528	329	89	1255
Owen, Oscar L., assignor to Whitin Machine Works, Incorporated, Whitinsville, Mass. Take-up mechanism for looms	638,937	Dec. 12	1390	317	89	2157
Owen, Peter M., assignor of one-half to C. X. Gutzeit, San Antonio, Tex. Canopy for beds, couches, &c	636,548	Nov. 7	558	124	89	1033
Owen, Smith, assignor to T. Morris, La Crosse, Wis. Clothes-rack	624,528	May 9	1076	242	87	931
Owens, Francis T. (See Maltby, Louis F., assignor.)						
Owens, George W., Austin, Miss. Tent	627,626	June 27	2652	582	87	2188
Owens, John L., Minneapolis, Minn. Draft-equalizer	636,838	Nov. 14	1155	249, 250	89	1182
Owens, Michael J., Toledo, Ohio. Making glass articles	628,027	July 4	122	24	88	25
Owens, Michael J., assignor to Toledo Glass Company, Toledo, Ohio. Glass-blowing machine	625,513	May 23	2832	645	87	1312
Owens, Michael J., assignor to Toledo Glass Company, Toledo, Ohio. Machine for blowing glass	635,344	Oct. 24	2512	584	89	544
Oxley, Eustace, Lynn, Mass., assignor to General Electric Company, of New York. Electric meter	632,739	Sept. 12	1010	235	88	1920
Oxley, James M. (See Dowie and Oxley.)						
Oxnard Construction Company. (See Oxnard and Baur, assignors.)						
Oxnard, James G., and W. Baur, New York, N. Y., assignors to Oxnard Construction Company, of West Virginia. Manufacturing granulated sugar from beets	626,292	June 6	131	33	87	1639
Oyer, Soloman A., Chambersburg, Pa. Gyrator	620,048	Feb. 21	2302	522, 523	86	1300
Ozias, Albert N., Racine, Wis., assignor to Computing Scale Company, of Ohio. Price-scale	634,831	Oct. 10	1568	368, 369	89	328
Ozias, Orange O., Dayton, Ohio. Computing-scale	625,798	May 30	3350	761, 762	87	1431
Ozias, Orange O., Dayton, Ohio. Price-computing scale	637,153	Nov. 14	1791	384	89	1304
P. Carter Bell Company. (See Bell, Percy C., assignor.)						
P. & F. Corbin. (See Arens, August, assignor.)						
P. & F. Corbin. (See Case, Cromwell O., assignor.)						
P. & F. Corbin. (See Glover, Charles, assignor.)						
P. H. & F. M. Roots Company. (See Johnston, Edgar D., assignor.)						
Paar, Henry, assignor of one-half to A. Thomas, Canton, Ohio. Soft-tread horseshoe	624,529	May 9	1077	242	87	931
Pabst, Friedrich G., Hamburg, Germany. Shoe or boot stretcher	619,835	Feb. 21	1919	437	86	1228
Pace, Augustus G., New York, N. Y. Combustion-engine. (Reissue)	11,775	Sept. 26	3320	773, 774	88	2400
Pachner, Isaac, New York, N. Y. Cap	628,842	July 11	1678	391	88	348
Pacific Car Coupling Company. (See Malloy, John J., assignor.)						
Pacific Investment Company. (See Nef, John J., assignor.)						
Pacific Pearl Fishing Company. (See Paul, Carrick, assignor.)						
Pack, George E., and A. Phillippi, Philadelphia, Pa.; said Phillippi assignor to said Pack. Iron bed	634,065	Oct. 3	136	35	89	31
Packard, Davis H., Lestershire, N. Y., assignor to Metallic Heel and Counter Company, Kittery, Me. Shoe heel and counter protector	638,879	Dec. 12	1286	292	89	2136
Packard, Granville F., Fort Wayne, Ind. Electric meter	631,225	Aug. 15	2771	627, 628	88	1302
Packard, James W., Warren, Ohio. Electric transformer	628,957	July 18	1893	439, 440	88	406
Packard, James W., Warren, Ohio. Electric transformer	639,276	Dec. 19	1995	459, 460	89	2291
Packard, Nellie P., Centralia, Wash. Reversible envelop	631,939	Aug. 29	4088	917	88	1587
Packer, George W., Chicago, Ill. Machine for grinding surfaces of metals	633,895	Sept. 26	3160	733, 734	88	2369
Packer, Willard N., Cleveland, Ohio, assignor to P. Abbott, trustee, New York, N. Y. Machine for defibrating ramie	635,345	Oct. 24	2513	585	89	545
Packham, Frank R., assignor to Superior Drill Company, Springfield, Ohio. Disk furrow-opener	621,701	Mar. 21	2147	478	86	1944
Packham, Frank R., assignor to Superior Drill Company, Springfield, Ohio. Press-wheel attachment for furrow-openers	627,520	June 27	2433	535	87	2143
Packham, Frank R., assignor to Superior Drill Company, Springfield, Ohio. Disk furrow-opener	630,629	Aug. 8	1735	388	88	1073
Packham, Frank R., and G. P. Oates, assignors to Superior Drill Company, Springfield, Ohio. Disk harrow	628,028	July 4	123	25	88	26
Paddock, Gustavus A., Beaver Dam, Wis. Clothes-wringer	628,545	July 11	1118	261, 262	88	236
Paddock, Harvlin, assignor to E. & T. Fairbanks & Company, St. Johnsbury, Vt. Excess-baggage scale	618,520	Jan. 31	3180	702	86	681
Paddock, William W., Buffalo, N. Y. Pressure-filter	636,447	Nov. 7	363	82	89	994
Padfield, Harry V., and J. F. Tumalty, St. Louis, Mo. Skirt fastener and supporter	625,350	May 23	2557	581	87	1258
Padgett, William. (See Hart and Padgett.)						
Page, Albert A., East Haven, assignor to Sargent & Company, New Haven, Conn. Liquid door-check	627,828	June 27	3001	656	87	2256
Page, Arthur F., Hazel, assignor of one-fourth to E. B. Beeton, De Smet, S. D. Sieve for separators, fanning-mills, &c	632,362	Sept. 5	274	64	88	1761
Page Book Cover Company. (See Page, Ellsworth M., assignor.)						
Page, Charles G., Oak Park, Ill. Pneumatic tire	621,971	Mar. 28	2684	604, 605	86	2061
Page, Edward A., Berlin Heights, Ohio. Box-fastener	633,896	Sept. 26	3165	735	88	2370
Page, Ellsworth M., Buffalo, assignor to Page Book Cover Company, Albany, N. Y. Book-cover	626,794	June 13	1057	238, 239	87	1838
Page, George O., assignor to W. L. Hayes, Cleveland, Ohio. Feed mechanism for wire-working machines	625,351	May 23	2558	582	87	1258
Page, Harry D., Chatham, N. J. Vaporizer	630,401	Aug. 8	1287	282	88	990
Page, Marcus L., Kyte River, Ill. Grain-loader	620,492	Feb. 28	3059	699, 700	86	1458
Page, Reuben H. (See Britt, Chester L., assignor.)						
Page, Warren B., Newton, Mass. Clasp	637,972	Nov. 28	3692	776	89	1755
Page, William E., Los Angeles, Cal. Sign	618,949	Feb. 7	278	59	86	864
Page, William G., Calvin, Ind. Ter. Evaporating-pan	622,708	Apr. 11	956	220, 221	87	201
Page, William H., Norwich, Conn., assignor to Magee Furnace Company, Boston, Mass. Hot-water heater	625,514	May 23	2833	645	87	1312
Page, William H., assignor of one-half to T. Kelly, Norwich, Conn. Hot-water heater	633,897	Sept. 26	3166	735, 736	88	2370

Alphabetical list of patentees—Continued.

Name, residence, and invention.	No.	Date.	Monthly volume.		Official Gazette.	
			Spec.	Drg.	Vol.	Page.
Page Wire Fence Company. (See Bissell, Herbert S., assignor.)						
Page Woven Wire Fence Company. (See Lamb, Charles M., assignor.)						
Paget, Arthur, London, England. Speed-regulating, starting, stopping, reversing, and steering mechanism for motor-vehicles	627,201	June 20	1813	397, 398	87	2004
Paget, Leonard, New York, N. Y., assignor to Reliance Lamp Electric Company, of New Jersey. Electrical battery	618,993	Feb. 7	387	81	86	885
Paget, Leonard, New York, N. Y., assignor to Reliance Lamp Electric Company, of New Jersey. Electrode for dry storage batteries	625,462	May 23	2743	624	87	1293
Paget, Leonard, New York, N. Y., assignor to Reliance Lamp Electric Company, of New Jersey. Oxidant for electrical batteries	631,322	Aug. 22	2968	------	88	1358
Paget, Leonard, assignor to Knickerbocker Trust Company, trustee, New York, N. Y. Storage battery and preparing electrodes therefor	627,009	June 13	1489	326	87	1921
Pagett, Charles H., assignor of three-fourths to F. Murdock, L. Sparks, and W. F. Murdock, Lafayette, Ind. Acetylene-gas headlight	635,580	Oct. 24	2998	688	89	639
Pagnon, Felix, Lyons, France. Brick	634,562	Oct. 10	1113	264	89	240
Paĭdassy, Macarius, St. Petersburg, Russia. Steering mechanism	625,352	May 23	2559	582	87	1258
Paige, John C., Malden, assignor of one-half to J. D'Este, Boston, Mass. Steam-engine indicator	619,049	Feb. 7	478	99, 100	86	903
Pain, Henry J., New York, N. Y. Pyrotechnic signal	617,539	Jan. 10	1291	292	86	271
Pain, Henry J., New York, N. Y. Pyrotechnic signal	624,530	May 9	1078	242	87	931
Pain, Robert W., assignor to Aeolian Company, New York, N. Y. Pedal attachment for automatic playing devices	630,557	Aug. 8	1598	357	88	1047
Pain, Robert W., assignor to Aeolian Company, New York, N. Y. Guide for pianolas	630,558	Aug. 8	1599	357	88	1048
Painchaud, Ludger. (See Jacques and Painchaud.)						
Paine, Castanos. (See Overshiner, Gideon J., assignor.)						
Paine-Ellis Grain Drier Company. (See Ellis, Wynn E., assignor.)						
Paine, Frederick H., Newport, R. I., and J. L. Given, Stony Point, N. Y. Manufacture of cement conduits or pipes	626,088	May 30	3948	897	87	1543
Paine, George R., Bridgewater, Mass. Tricycle	618,580	Jan. 31	3285	729	86	702
Paine, Joseph B., Alcester, S. D. Bob-sled	619,433	Feb. 14	1187	268	86	1060
Paine, Tracy L., assignor to National Elastic Nut Company, Milwaukee, Wis. Nut	633,212	Sept. 19	1907	449	88	2110
Paine, William H. (See Ray and Paine.)						
Painter, Arthur, Nelson, Canada. Grip-pulley	639,762	Dec. 26	2920	672	89	2494
Painter, Carl T., assignor to G. C. Steward, J. Bogenshott, and C. S. Steward, Chattanooga, Tenn. Door-check	634,955	Oct. 17	1783	423	89	387
Painter, Carl T., and C. L. Knoedler, Chattanooga, Tenn., assignors to said Knoedler. Press for compressing bills, &c	628,183	July 4	424	100	88	86
Painter, Harry J., *et al.* (See Treleaven, John, assignor.)						
Painter, William, assignor to Crown Cork and Seal Company, Baltimore, Md. Gluten compound	619,336	Feb. 14	1006	------	86	1027
Painter, William, assignor to Crown Cork and Seal Company, Baltimore, Md. Gluten compound	619,337	Feb. 14	1007	------	86	1027
Painter, William, assignor to Crown Cork and Seal Company, Baltimore, Md. Gluten compound	619,338	Feb. 14	1008	------	86	1027
Painter, William, assignor to Crown, Cork and Seal Company, Baltimore, Md. Closure for sealing bottles	625,055	May 16	2017	454	87	1132
Painter, William, assignor to Crown Cork and Seal Company, Baltimore, Md. Machine for automatically sealing bottles	638,354	Dec. 5	319	66, 67, 68	89	1927
Painton, Richard B., Williamsport, Pa., assignor of seven-sixteenths to W. H. Bainbridge, London, England, and D. C. Willoughby, New York, N. Y. Electrically-operated rudder-controlling mechanism	624,531	May 9	1079	242	87	931
Painton, Richard B., Williamsport, Pa., assignor of part to W. H. Bainbridge, London, England, and D. C. Willoughby. Screw-propeller	624,674	May 9	1325	295, 296	87	980
Pairan, Edward L. (See Pairan, Ferdinand, assignor.)						
Pairan, Ferdinand, assignor of one-half to E. L. Pairan, Madeira, Ohio. Safety gas-burner	624,241	May 2	551	117	87	804
Palica, Frank J., Racine, Wis. Trunk	621,972	Mar. 28	2688	605	86	2062
Pallweber, Joseph, assignor to Fabrik Mechanischer Apparate Gesellschaft mit Beschränkter Haftung, Frankfort-on-the-Main, Germany. Cash-register or like apparatus	618,477	Jan. 31	3090	684	86	664
Pallweber, Joseph, assignor to Fabrik Mechanischer Apparate Gesellschaft mit Beschränkter Haftung, Frankfort-on-the-Main, Germany. Cash-register	630,922	Aug. 15	2228	508	88	1195
Palm, George, Butler, Pa. Reversing-gear	618,433	Jan. 31	3027	670	86	652
Palm, George, Butler, Pa. Attachment for steam-engines	618,434	Jan. 31	3028	670	86	652
Palm, George, Butler, Pa. Gas-engine	618,435	Jan. 31	3030	670	86	653
Palm, George, Butler, Pa. Oil-can	630,264	Aug. 1	977	215	88	915
Palm, George, assignor to W. H. Larkin, Butler, Pa. Packer for oil or like wells	628,210	July 4	469	112	88	93
Palm, William J., Beaver Dam, Wis. Percolating coffee-pot attachment	637,481	Nov. 21	2416	524	89	1443
Palmer, Albert E., assignor of one-half to A. T. Thomas, Owosso, Mich. Clamping device for glue-presses	625,193	May 16	2255	512	87	1175
Palmer, Annie L., Chicago, Ill. Device for teaching musical notation	618,611	Jan. 31	3336	741	86	711
Palmer, Austin D., Fort Worth, Tex. Combination kitchen-cabinet	618,994	Feb. 7	389	81	86	886
Palmer, Byron S., Glens Falls, N. Y. Vaporizer	629,390	July 25	2675	624	88	577
Palmer, Charles H. (See Arrouquier, Fredrick E., assignor.)						
Palmer, Charles H., and J. W. Denmead, Akron, Ohio, assignors to Diamond Match Company, Chicago, Ill. Match-making machine	636,170	Oct. 31	4151	952, 953	89	879
Palmer, Charles O., Cleveland, Ohio. Mining-machine	618,130	Jan. 24	2443	545	86	528
Palmer, Emily S., Boston, Mass. Device for converting snow or ice into water	634,021	Oct. 3	70	19	89	18
Palmer, Frederick A., New York, N. Y. Bed-spring	639,931	Dec. 26	3215	737	89	2553
Palmer, George E. (See McOsker and Garvey, assignors.)						
Palmer, George E., Cedar Rapids, Iowa. Attachment for trestles	623,175	Apr. 18	1820	417	87	383
Palmer, Harmon S., Chicago, Ill. Machine for molding hollow concrete building-blocks	623,686	Apr. 25	2732	626, 627	87	581
Palmer, Harry A., Akron, Ohio. Knife or shears sharpener	638,750	Dec. 12	1073	239	89	2096
Palmer, Harry O., Bolton, England. Die for manufacturing or sharpening star-bit rock-drills	619,087	Feb. 7	548	115	86	917
Palmer, Herbert R., Cleveland, Ohio. Hoisting and conveying apparatus	621,846	Mar. 28	2427	542	86	2012
Palmer, Isaac A., Seattle, Wash. Ore separator and amalgamator	639,089	Dec. 12	1645	380, 381	89	2206
Palmer, Isaac E., Middletown, Conn. Automatic stop and tension device for winding-machines	619,497	Feb. 14	1289	295	86	1081
Palmer, Isaac E., Middletown, Conn. Awning-frame for hammock-supports	625,515	May 23	2835	646	87	1313
Palmer, Isaac E., Middletown, Conn. Hammock	626,842	June 13	1162	258	87	1856
Palmer, J. E. (See Gunlock and Thwing, assignors.)						
Palmer, Jerome E., assignor to Eugene Dietzgen Company, Chicago, Ill. Section-liner	630,923	Aug. 15	2231	509	88	1195

Alphabetical list of patentees—Continued.

Name, residence, and invention.	No.	Date.	Monthly volume.		Official Gazette.	
			Spec.	Dr'g.	Vol.	Page.
Palmer, John H., and J. H. Sheridan, Wheeling, W. Va. Continuous rolling-mill	638,984	Dec. 12	1475	338	89	2175
Palmer, John M., Chicago, Ill. Wave-motor	623,556	Apr. 25	2505	575	87	538
Palmer, John M., Chicago, Ill. Wave-motor	623,557	Apr. 25	2508	575	87	539
Palmer, John Q. (See Brown, Lewis O., assignor.)						
Palmer, Judson. (See Field and Palmer.)						
Palmer, Maro V., Willimantic, Conn., assignor to American Thread Company, Jersey City, N. J., and New York, N. Y. Bobbin for lace-machines	631,472	Aug. 22	3239	435	88	1412
Palmer, Martin J., Arcadia, Ill. Uterine curette	618,521	Jan. 31	3181	702	86	681
Palmer, Orrin K., *et al.* (See Beebe, George F., assignor.)						
Palmer, Theodore D., Newark, N. J. Tanning hides	625,411	May 23	2652		87	1277
Palmer, Valeria, Cleburne, Kans. Garment-fastener	624,966	May 16	1868	419	87	1103
Palmer, William, Jr., Rincon, N. Mex. Ter. Valve for air-brake systems	622,633	Apr. 4	801	186	87	152
Palmetto Fibre Company. (See Young, McClintock, assignor.)						
Palmiter, Clebron D., assignor of one-half to S. F. Bagg, Watertown, N. Y. Governor for engines	634,650	Oct. 10	1249	296	89	265
Palmleaf, Charles, Woolley, Wash. Saw-guide	626,293	June 6	134	34	87	1639
Pan-American Dredging Company. (See Stone, Andrew K., assignor.)						
Panabaker, Samuel. (See Bennett, Elwood, assignor.)						
Pancoast, Benjamin F. (See Hart and Pancoast.)						
Pancoast, George E., New York, N. Y. Printing-machine	627,592	June 27	2585	569, 570	87	2173
Pancoast, Richard M., Camden, N. J. Towel-holder	626,089	May 30	3950	898	87	1544
Pancoast, Richard M., Camden, N. J. Implement for slitting green corn on the cob	631,259	Aug. 15	2848	643	88	1317
Pangborn, Redmond H., assignor of one-half to W. P. Powell, Menominee, Mich. Adjustable gage for cut-off saws	637,214	Nov. 14	1916	410	89	1328
Pangburn, Lycurgus E., New Haven, Conn. Envelop-sealer	622,528	Apr. 4	626	147	87	118
Pangle, Thomas R., assignor of one-half to J. R. Lewis, New Madrid, Mo. Tire-shrinker	639,277	Dec. 19	1997	460	89	2291
Pannill, Henry, assignor of two-thirds to J. Moyler and B. Milnes, Petersburg, Va. Draft-regulator for open fireplaces	625,983	May 30	3705	841	87	1499
Panoulias, Panayiotis, New York, N. Y. Machine for dipping chocolate drops, &c	632,535	Sept. 5	601	137, 138, 139, 140	88	1827
Panoulias, Panayiotis D., New York, N. Y. Machine for dipping chocolate drops	618,234	Jan. 21	2638	582, 583, 584	86	563
Pape, Wilhelm L. H., Hamburg, Germany. Handle-securing device	628,958	July 18	1896	440	88	406
Papendell, Robert, assignor to C. J. Tagliabue, New York, N. Y. Hypodermic syringe	637,405	Nov. 21	2291	493	89	1419
Paplow, Fredrick. (See Fink and Paplow.)						
Papprill, Rudolph S., Detroit, Mich. Tool for abrasive purposes	635,346	Oct. 24	2530	586	89	546
Paquet, Joseph, Poughkeepsie, N. Y. Handle-bar	630,069	Aug. 1	658	142	88	853
Paquette, Octave, Haverhill, Mass. Sole-shanking machine	621,129	Mar. 14	1124	244	86	1731
Paquette, Octave, Haverhill, Mass. Heel-seat-rounding machine	629,810	Aug. 1	86	22	88	737
Paquin, Joseph A., Fall River, Mass. Hat-sweat-stringing machine	627,237	June 20	1878	412	87	2017
Paquin, Noe, *et al.* (See Filteau, Peter, assignor.)						
Paradis, John B., Biddeford, Me. Funnel	619,836	Feb. 21	1920	438	86	1228
Paradis, John B., Biddeford, Me. Lamp-chimney holder	632,150	Sept. 19	1792	422	88	2086
Paradis, Lubin, Cambridge, and N. Desrosiers, Boston, Mass. Hansom-cab	634,651	Oct. 10	1251	297	89	266
Parcells, Paul, Chicago, Ill. Engine valve-gear	616,959	Jan. 3	179	40, 41	86	36
Pardee, Frank, Hazleton, Pa. Ore and coal separator	629,590	July 25	3054	712	88	650
Pardee, Frank, Hazleton, Pa. Separator for ore, coal, &c	629,591	July 25	3056	712	88	650
Pardee, Frank, Hazleton, Pa. Separator for ore, coal, &c	629,592	July 25	3059	712, 713	88	651
Pardee, Frank, Hazleton, Pa. Separator for ore, coal, &c	629,593	July 25	3061	713, 714	88	651
Pardee, Frank, Hazleton, Pa. Separator for ore, coal, &c	629,594	July 25	3063	714	88	651
Pardee, Frank, Hazleton, Pa. Separator for ore, coal, &c	629,595	July 25	3064	714, 715	88	652
Pardee, Frank, Hazleton, Pa. Separator for ore, coal, &c	629,596	July 25	3067	715	88	652
Pardee, Frank, Hazleton, Pa. Separator for ore, coal, &c	629,597	July 25	3069	715	88	653
Pardee, Frank, Hazleton, Pa. Feed-chute for separators for ore, coal, &c	638,062	Nov. 28	3864	813	89	1789
Parent, Edmond, assignor to I. Parent, Terrebonne, Canada. Shoe	636,353	Nov. 7	211	46	89	963
Parent, Ida. (See Parent, Edmond, assignor.)						
Parer, Francis, Queenstown, Tasmania. Cash-register	624,856	May 9	1670	378	87	1048
Parham, Eugene C., assignor to Steel Motor Company, Johnstown, Pa. Lightning-arrester	618,950	Feb. 7	279	60	86	864
Parham, Medacus F. (See Saunders and Parham.)						
Paris Spring Manufacturing Company (See Rison, Mastin L., assignor.)						
Parish & Bingham Company. (See Parish, Neff E., assignor.)						
Parish, Frank J., New York, N. Y. Fountain-brush	617,882	Jan. 17	1961	439	86	421
Parish, Neff E., assignor to Parish & Bingham Company, Cleveland, Ohio. Apparatus for making sprocket-wheels	637,653	Nov. 21	3102	642, 643	89	1617
Parish, Neff E., assignor to Parish & Bingham Company, Cleveland, Ohio. Sprocket-wheel	637,654	Nov. 21	3105	643	89	1618
Parish, Neff E., assignor to Parish & Bingham Company, Cleveland, Ohio. Making sprocket-wheels	637,655	Nov. 21	3106	643	89	1618
Parish, W. L., *et al.* (See Lee, Thomas, assignor.)						
Park, Albert J., Worcester, Mass. Fish globe or tank	634,626	Oct. 10	1213	288	89	258
Park, George A., *et al.* (See Raymond and Beal, assignors.)						
Park, George E. (See Ludwig, Jacob E., assignor.)						
Park, James A., White House Station, N. J. Fence-machine	624,532	May 9	1082	243, 244	87	932
Park, Jeremiah S., Montandon, Pa. Harness	630,301	Aug. 1	1061	231	88	931
Park, Kennedy, Cambridge, Mass. Steam-generator	627,521	June 27	2434	535, 536	87	2144
Park, Kennedy, Cambridge, assignor of one-half to W. Thayer. Newton, Mass. Boiler	620,872	Mar. 7	624	136, 137	86	1625
Park, Lincoln E., *et al.* (See Lehmann, Henry C., assignor.)						
Park, Louis C., Vancouver, Canada, assignor to W. W. Slater, Edinburgh, and J. Gallaway, Jr., Leith, Scotland. Amalgamator	637,482	Nov. 21	2416	524	89	1443
Park, Vernon A. (See Tharp and Park.)						
Park, William L., R. W. Baxter, and W. R. McKeen, Jr., North Platte, Nebr. Uncoupling device for car-couplings	633,700	Sept. 26	2837	660	88	2304
Park, William R., assignor of one-half to R. G. Rankin, Philadelphia, Pa. Combined toy and game	628,029	July 4	125	26	88	26
Park, William R., Taunton, assignor to Hancock Inspirator Company, Boston, Mass. Rocking grate	638,355	Dec. 5	324	68	89	1928

Alphabetical list of patentees—Continued.

Name, residence, and invention.	No.	Date.	Monthly volume. Spec.	Monthly volume. Dr'g.	Official Gazette. Vol.	Official Gazette. Page.
Park, William R., Taunton, and B. T. Williston, Somerville, assignors to Hancock Inspirator Company, Boston, Mass. Composite injector	621,367	Mar. 21	1546	343	86	1826
Parker, Alexander M., London, England. Making germ extract	624,675	May 9	1328		87	980
Parker, Andrew. (See Fjellman, Robert, assignor.)						
Parker Brothers. (See Gibbs, Charles E., assignor.)						
Parker, Caroline. (See Knapp, George S., assignor.)						
Parker, Carrie P., Minneapolis, Minn. Garment-fastener	637,524	Nov. 21	2494	541	89	1458
Parker, Edmund A., Meriden, Conn. Perforating glass articles	628,030	July 4	126	26	88	26
Parker, Erastus N., Springfield, Mass. Watch-roller remover	624,242	May 2	553	117	87	804
Parker, Frank, Lowell, Mass. Bobbin	625,194	May 16	2256	513	87	1176
Parker, Frank R., Battle Creek, Mich. Wire fence	632,585	Sept. 5	683	158	88	1842
Parker, George E. and L., assignors, by mesne assignments, to Goodrich Manufacturing Company, Newark, N. J. Sash-lock	632,140	Aug. 29	4474	1007	88	1665
Parker, George S., Janesville, Wis. Fountain-pen	622,256	Apr. 4	95	22	87	22
Parker, George S., Janesville, Wis. Fountain-pen	635,700	Oct. 24	3211	740	89	682
Parker, Henry W. (See Heberling, Squire, assignor.)						
Parker, Herbert L., assignor to Emerson Electric Manufacturing Company, St. Louis, Mo. Ventilating-fan	632,740	Sept. 12	1011	235	88	1921
Parker, Herbert L., and C. R. Meston, assignors to Emerson Electric Manufacturing Company, St. Louis, Mo. Bearing for armature-shafts of electric motors	618,131	Jan. 24	2444	545	86	528
Parker, Herschel C., *et al.* (See Reynolds, Frank A., assignor.)						
Parker, James C., Woodston, Kans. Nut-lock	618,436	Jan. 31	3033	671	86	653
Parker, James L., Cleveland, Ohio. Self-closing valve for pneumatic hoisting-cylinders	631,530	Aug. 22	3345	761	88	1434
Parker, James W., Chicago, Ill. Check-row wire	628,959	July 18	1897	440	88	406
Parker, Jeremiah C., Red Bank, N. J. Bicycle-frame	622,066	Mar. 28	2834	639	86	2091
Parker, John C., San Francisco, Cal. Steam-generator	628,606	July 11	1222	286	88	256
Parker, Robert L., assignor of one-half to C. W. Harres, Merkel, Tex. Combined cotton-chopper and cultivator	626,816	June 13	1098	247	87	1845
Parker, John, Vassar, and J. E. Thompson, Reese, Mich. Device for loosening and topping beets	637,656	Nov. 21	3107	643	89	1618
Parker, Lem, and R. Poynor, Bingham, Tenn. Vise	634,022	Oct. 3	71	19	89	18
Parker, Linette A., Tisbury, Mass., and W. H. Parker, Hampton, Va. Pencil-holder	637,889	Nov. 28	3552	744	89	1729
Parker, Lowell. (See Parker, George E. and L.)						
Parker, M. V. B., *et al.* (See Keepers, John, assignor.)						
Parker, Ralzemond A., Detroit, Mich., assignor to Consolidated Car-Heating Company, Albany, N. Y. Electric heater	620,720	Mar. 7	336	69	86	1566
Parker, Robert V. (See Treadway and Parker.)						
Parker, Rolla J., J. H. Banker, Newton, and H. U. Mudge, Topeka, Kans. Gate	634,066	Oct. 3	139	36	89	32
Parker, Surry, Pinetown, N. C. Bolster for logging-car frames	623,733	Apr. 25	2801	640	87	593
Parker, Thomas, Tettenhall, England. Manufacturing chlorates by electrolysis	633,272	Sept. 19	2027	477	88	2132
Parker, Wilber F., San José, Cal. Tax-computing device	628,895	July 11	1782	415	88	367
Parker, William A., Collins, Iowa. Rotary engine	628,960	July 18	1898	440, 441	88	407
Parker, William E., assignor to Russell & Erwin Manufacturing Company, New Britain, Conn. Cylinder-lock	623,287	Apr. 18	2025	465	87	424
Parker, William F., New York, N. Y. Metallic corner-strip for protecting angles of plastered walls	624,076	May 2	234	50	87	746
Parker, William H. (See Parker, Linette A. and W. H.)						
Parker, William O., *et al.* (See Sinclair, Clark, assignor.)						
Parker, William T., Philadelphia, Pa. Adjustable lid-holder for boxes	628,031	July 4	127	26	88	27
Parkes, Robert W., Detroit, Mich. Stamp-affixing machine	631,510	Aug. 22	3314	753	88	1427
Parkes, Septimus A., Surbiton, and O. H. Wagner, London, England. Screw-down tap	624,855	May 9	1668	377, 378	87	1047
Parkes, William N., New York, N. Y. Sewing-machine	629,169	July 18	2277	528, 529	88	480
Parkes, William N., New York, N. Y. Sewing-machine	630,559	Aug. 8	1600	357, 358	88	1048
Parkhurst, Edward B., Boston, Mass. Bicycle propelling mechanism	632,536	Sept. 5	608	140	88	1828
Parkhurst, Edward B., assignor to J. T. Freeman and H. F. Davis, Woburn, Mass. Leather-dressing apparatus	618,581	Jan. 31	3286	729, 730	86	702
Parkin, Joseph W., Philadelphia, Pa. Ball-bearing pulley	630,101	Aug. 1	707	152	88	863
Parkinson, Howard E., Spartanburg, S. C. Automatic air-brake hose-coupling	637,021	Nov. 14	1530	329	89	1256
Parkinson, John A., Rock Valley, Iowa. Swinging stacker	629,301	July 18	2492	581	88	519
Parkinson, Le Roy. (See Kleiner and Parkinson.)						
Parkinson, Llewellyn, Eaton, Tenn. Steam-governor	619,606	Feb. 14	1467	336	86	1114
Parkinson, Thomas J. (See McCombs and Parkinson.)						
Parks, Albert F., assignor of three-fifths to A. F. Bowman, M. P. Niswonger, and F. B. Corey, Dayton, Ohio. Fluid-pressure engine	639,686	Dec. 19	2771	639, 640	89	2446
Parks, C. D. (See Parks, Edward S., assignor.)						
Parks, Dennis, Duquoin, Ill., assignor of one-half to J. E. Mitchell, St. Louis, Mo. Mill-spout	625,984	May 30	3707	842	87	1500
Parks, Edward F. (See Parks and Farmer.)						
Parks, Edward H., assignor to Brown & Sharpe Manufacturing Company, Providence, R. I. Gear-cutting machine	624,676	May 9	1329	296, 297	87	980
Parks, Edward H. and E. F., Providence, R. I., and T. P. Farmer, Boston, Mass. Measuring-machine	633,102	Sept. 12	1690	397, 398, 399, 400	88	2055
Parks, Edward S., assignor to C. D. Parks, Danbury, Conn. Shoddy-making machine	623,176	Apr. 18	1822	418	87	383
Parks, Fred R., Water Valley, N. Y. Seed-planter and plant-setting machine	627,873	June 27	3085	675, 676	87	2272
Parks, John R., Wabash, Ill. Paddle-wheel	621,368	Mar. 21	1548	343	86	1827
Parks, Robert D., Pleasant Mounds, Minn. Acetylene-gas generator	621,616	Mar. 21	1983	442	86	1910
Parks, Robert H., Despatch, N. Y., assignor to Simplex Railway Appliance Company, Chicago, Ill. Car-truck end casting	637,279	Nov. 21	2033	436	89	1366
Parks & Woolson Machine Company. (See Brown, Adna, assignor.)						
Parlin & Orendorff Company. (See Heylman, Edward M., assignor.)						
Parmelee, John H., Bridgeport, Conn, Street-car fender	639,823	Dec. 26	3028	697	89	2516
Parmelee, Wilbur F., Middletown, Conn. Hammock-support	630,735	Aug. 8	1894	428	88	1104
Parmenter, Edward S., Utica, N. Y. Cartridge-reloading tool	621,941	Mar. 28	2614	589	86	2047
Parmenter, George A., Cambridge, Mass. Life-guard for railway-cars	623,818	Apr. 25	2989	684, 685	87	631
Parmenter, Orville L., *et al.* (See Shedd, Hugh E., assignor.)						
Parmerter, Henry H. (See Wever and Parmerter.)						
Parnall, William, assignor of one-half to T. B. Burns, Bristol, England. Target	631,175	Aug. 15	2694	609	88	1286

Alphabetical list of patentees—Continued.

Name, residence, and invention.	No.	Date.	Monthly volume. Spec.	Monthly volume. Dr'g.	Official Gazette. Vol.	Official Gazette. Page.
Parraga, Rafael E. (See Taylor, George L., assignor.)						
Parramore, Reddin W., New York, N. Y. Hose-supporter	629,391	July 25	2677	624	88	577
Parrent, Henry, Giltedge, Mont. Hay-stacker	631,260	Aug. 15	2851	643 644	88	1318
Parrish, Charles A., Jackson, Mich. Electric signal	617,540	Jan. 10	1293	292	86	272
Parrish, Elmer A., Baltimore, Md., assignor to T. J. Grogan, Washington, D. C. Dumping cart or wagon	623,819	Apr. 25	2991	685	87	631
Parrish, Stephen E., Tecumseh, Mich. Basket	623,927	Apr. 25	3197	736	87	670
Parrish, William N., Richmond, Ind. Wire-winding device	625,056	May 16	2020	455	87	1132
Parry, Robert R., and E. Evans, Poultney, Vt. Dish-washing machine	617,599	Jan. 10	1403	318 319	86	292
Parsley, George T., and G. C. Cottrell, Hornbrook, Cal. Boring and mortising machine	617,473	Jan. 10	1172	267	86	247
Parson, Swan, New Britain, Conn. Car-switch	637,154	Nov. 14	1793	385	89	1305
Parson, Swan, New Britain, Conn. Switch-operating attachment for cars	637,155	Nov. 14	1794	385	89	1305
Parsons, Abi L., administratrix. (See Parsons, Calvin W.)						
Parsons, Calvin W., deceased, Scranton, Pa.; A. L. Parsons, administratrix. Shaking screen and separator	626,090	May 30	3951	898	87	1544
Parsons, Charles A., Newcastle-upon-Tyne, England, assignor to Westinghouse Machine Company, Pittsburg, Pa. Steam-turbine	639,608	Dec. 19	2611	600	89	2415
Parsons, Charles E. (See Belknap, Charles A., assignor.)						
Parsons, Edgar W., Nineveh Junction, N. Y. Tramway	628,283	July 4	622	147	88	120
Parsons' Engine Company. (See Parsons, John H., assignor.) (Reissue.)						
Parsons, Ernest P., assignor of one-half to W. J. White, Cleveland, Ohio. Nail-making machine	631,328	Aug. 22	2969	671 672	88	1358
Parsons, Henry, Marlborough, Mass. Machine for cutting leather	630,402	Aug. 8	1289	282	88	990
Parsons, Isaac H. (See Gent, Staveley, and Parsons.) (Reissue.)						
Parsons, John H., assignor to Parsons' Engine Company, Wilmington, Del. Rotary engine. (Reissue)	11,743	May 23	3208	729	87	1385
Parsons, Willard C. (See Eades and Parsons.)						
Parsons, William B., Bayswater, Victoria. Luggage-valise for bicycles	618,612	Jan. 31	3337	741	86	711
Parsons, Willis F., and A. J. Burt, Detroit, Mich. Machine for stamping tickets	622,014	Mar. 28	2752	621	86	2075
Partington, Charles, Newport, Ky., assignor to Weir Frog Company, Cincinnati, Ohio. Spring-frog	627,438	June 20	2285	503	87	2099
Partington, David, Atherton, England. Bicycle-bell	621,461	Mar. 21	1713	380	86	1858
Partington, Edward, Glossop, England. Rag-engine	622,973	Apr. 11	1418	326 327	87	290
Partridge, William O. (See Bean, Walter N., assignor.)						
Partzsch, Max R., Dresden Löbtau, Germany. Machine for applying metal strips to boxes	623,332	Apr. 18	2105	483	87	440
Parvin, Martha M., Muscatine, Iowa. Adjustable lamp-holding device	617,179	Jan. 3	607	142	86	119
Parvin, Thomas S., Philadelphia, Pa. Gramophone	625,957	May 30	3657	830	87	1490
Parzybok, Sam. (See Churchill, Levi M., assignor.)						
Paschall, Thomas B., Searcy, Ark. Device for assisting in transferring entries	633,481	Sept. 19	2409	567	88	2206
Pashley, Charles L., Stamford, N. Y. Shirt-bosom holder	632,141	Aug. 29	4476	1007	88	1665
Pashley, Charles W., Dunham, assignor to Linotype Company, Limited, London, England. Ball-and-socket joint	625,412	May 23	2653	603	87	1277
Pasman, Abram N., Jersey City, N. J. Flushing apparatus	629,463	July 25	2805	652	88	603
Pass, Arthur, Birkenhead, England. Can-opener	617,257	Jan. 3	751	176	86	148
Passage, Hiram H., assignor of one-half to Daisy Manufacturing Company, Plymouth, Mich. Firearm	638,751	Dec. 12	1073	240	89	2096
Passaic Print Works. (See Broadway, Alexander H., assignor.)						
Passos, Fernando C. dos. (See Platt and Passos.)						
Patak, Frank, assignor of one-half to J. Frowenfeld, San Francisco, Cal. Razor	617,835	Jan. 17	1868	418	86	403
Patch, Frank L., Phillipsdale, R. I. Stringed musical instrument	636,692	Nov. 7	836	186	89	1092
Patch, Fred R., Rutland, Vt. Floor-surfacing machine	639,278	Dec. 19	1998	460 461	89	2292
Patchin, William E., Rochester, N. Y. Pencil-sharpener	627,874	June 27	3088	676	87	2272
Patenall, Thomas H., Easton, assignor to Union Switch and Signal Company, Swissvale, Pa. Electric signal for railways	634,023	Oct. 3	72	19,20	89	19
Patent Agglomert Fuel Syndicate. (See Forester, Herbert C. B., assignor.)						
Patent "Barb" Bottle Stopper Syndicate. (See Bonwick, William P., assignor.)						
Patent Button Company. (See Bryant, Charles A., assignor.)						
Patent Button Company. (See Neubert, Franklin G., assignor.)						
Patent Button Company. (See Slocum, Charles H., assignor.)						
Patent Button Company. (See Washburne, James V., assignor.)						
Patent Button Company. (See White, Franklin R., assignor.)						
Patent-Cartonnagen-Fabrik. (See Osang, Robert, assignor.)						
Patent Diamond Gang Saw Company. (See Shettleworth, Frederick W., assignor.)						
Paternoster, Gottlieb, New Rochelle, N. Y. Vapor-bath cabinet	622,821	Apr. 11	1143	264	87	236
Paterson, Alexander. (See North and Paterson.)						
Paterson, Alexander, London, England. Printer's furniture	634,024	Oct. 3	75	20	89	19
Paterson, Alexander, London, England. Bottle or similar receptacle	639,861	Dec. 26	3094	711	89	2528
Paterson, Thomas, Peterborough, Canada. Educational appliance	623,558	Apr. 25	2510	576	87	540
Patey, Frank R., Belfast, Ireland. Boat-lowering appliance	631,226	Aug. 15	2775	628	88	1303
Patin, Octave, Puteaux, France. Electrically-propelled road-vehicle	623,820	Apr. 25	2993	685 686	87	632
Paton, Thomas J., Limestone, N. Y. Paper-holder	627,439	June 20	2286	504	87	2099
Patriarche, Hugh R., Milwaukee, Wis. Hoisting or lowering device	624,077	May 2	236	50	87	747
Patriarche, Hugh R., Milwaukee, Wis. Hoisting or lowering device	624,078	May 2	238	50	87	747
Patriarche, Phillip H., Toronto, Canada. Advertising street-annunciator for cars	633,608	Sept. 26	2672	623	88	2270
Patrick, Albert M. (See Morley and Patrick.)						
Patrick, Henry W. (See Rogers and Patrick.) (Reissue.)						
Patrick, John, Chicago, Ill. Elastic-tread horseshoe	640,166	Dec. 26	3640	838	89	2640
Patrone, Giuseppe, Turin, Italy. Loom for weaving	627,440	June 20	2288	504	87	2099
Pattberg, Charles E., New York, N. Y. Mechanism for preventing offset in printing-machines	633,898	Sept. 26	3169	736	88	2370
Pattberg, Charles E., assignor to Campbell Printing Press and Manufacturing Company, New York, N. Y. Apparatus for handling offset-webs	639,763	Dec. 26	2922	672 673	89	2494
Pattee, Herbert H., Washington, D. C. Signaling and tire-inflating means for bicycles	624,079	May 2	241	50	87	748
Pattee, Herbert H., Philadelphia, Pa. Combined couch and chair	629,204	July 18	2337	542	88	490
Pattee, Herbert H., Philadelphia, Pa. Bicycle	636,921	Nov. 14	1339	287	89	1217
Pattee, James H., assignor to Pattee Plow Company, Monmouth, Ill. Riding-cultivator	616,960	Jan. 3	180	41	86	36
Pattee, James H., assignor to Pattee Plow Company, Monmouth, Ill. Cultivator	616,961	Jan. 3	182	41	86	36
Pattee Plow Company. (See Moore, Joseph P., assignor.)						
Pattee Plow Company. (See Pattee, James H., assignor.)						
Patten, Francis J., New York, N. Y. Acetylene-gas burner	623,559	Apr. 25	2512	576	87	540
Patten, James S., Baltimore, Md. Axle-box	618,721	Jan. 31	3536	790	86	750

Alphabetical list of patentees—Continued.

Name, residence, and invention.	No.	Date.	Monthly volnme.		Official Gazette.	
			Spec.	Dr'g.	Vol.	Page.
Patten, James S., Baltimore, Md. Dust-guard	632,142	Aug. 29	4477	1008	88	1665
Patten, James S., Baltimore, Md. Axle lubricator, wiper, and dust-guard	634,475	Oct. 10	950	226	89	207
Patten, James S., Baltimore, Md. Guard for car-axle boxes	637,280	Nov. 21	2034	436, 437	89	1366
Patten, James S., Baltimore, Md. Lubricator and wiper for locomotive-axles	638,985	Dec. 12	1477	339	89	2175
Patten, Lorenzo D. (See Cushman, Amos A., assignor.)						
Patten, William D., New York, N. Y. Making cakes of bicarbonate of soda	636,448	Nov. 7	365	------	89	995
Patterson, A. M., *et al.* (See Howell, Philip, assignor.)						
Patterson, Charles E., Hornellsville, N. Y. Game apparatus	631,660	Aug. 22	3582	807	88	1481
Patterson, James A., Clifton, Kans. Two-row disk cultivator	635,581	Oct. 24	3000	688, 689	89	639
Patterson, John, East St. Louis, Ill., assignor of one-half to Swift & Company, East St. Louis, and Chicago, Ill. Meat-securing device	628,546	July 11	1121	262	88	236
Patterson, John F., Bath, N. Y. Windmill-regulator	636,354	Nov. 7	212	46	89	963
Patterson, John H. (See Nelson, Louis, assignor.)						
Patterson, John S. (See Veazie and Patterson.)						
Patterson, John S., Chelsea, assignor to Revere Rubber Company, Boston, Mass. Fire-hose reel	622,067	Mar. 28	2835	639	86	2091
Patterson, Margaret L., *et al.* (See Cosgrave, Sylvester A., assignor.)						
Patterson, Robert, assignor of one-half to J. Mehan, Rochester, N. Y. Oil-can	627,522	June 27	2436	536	87	2144
Patterson, Robert B., Ludington, Mich. Potato-digger	617,992	Jan. 17	2150	479, 480	86	458
Patterson, Rufus L., Durham, N. C. Machine for cutting and trimming webs of material	618,287	Jan. 24	2731	605	86	581
Patterson, Samuel A., Bennington, Vt. Window-screen	630,004	Aug. 1	518	114	88	826
Patterson-Sargent Company. (See Hopkins, Randolph C., assignor.)						
Patterson, Thomas L., Grenock, Scotland. Centrifugal machine	630,736	Aug. 8	1897	428	88	1105
Patterson, Warren A., Houston, Tex. Compressing and baling apparatus	622,161	Mar. 28	3022	684	86	2130
Patterson, William J. (See Acklin and Patterson.)						
Patterson, William J., and A. M. Acklin, assignors to Heyl & Patterson, Pittsburg, Pa. Casting apparatus	633,151	Sept. 19	1795	422, 423	88	2086
Patteson, Reuben C., Summit, Ga. Lunch-bucket	635,803	Oct. 31	3423	789	89	736
Pattison, John A., Naples, Italy. Water-tube steam-generator	637,406	Nov. 21	2292	493	89	1419
Pattison, Thomas, assignor of one-fourth to C. A. Barlow, San Luis Obispo, Cal. Water-heater	631,261	Aug. 15	2853	644	88	1318
Pattison, Willis E., Sharon, Mass. Medicine-package	634,855	Oct. 10	1622	379	89	338
Pattisson, John W., Rea, Mo. Cultivator	622,162	Mar. 28	3025	684	86	2130
Pattisson, Sidney, London, England. Pneumatic tire	616,962	Jan. 3	184	42	86	37
Patton, Albert L. (See Banks, George L., assignor.)						
Patton, Alva A., assignor of one-half to G. H. Larkin, San Francisco, Cal. Boiler-tube cleaner and driver	634,270	Oct. 3	567	140	89	113
Patton, John V., *et al.* (See Le Pontois, Léon, assignor.)						
Patton, Thomas, assignor of one-fourth to J. A. Bennett, Greensburg, Pa. Grinding and sharpening machine	637,022	Nov. 14	1531	329, 330	89	1256
Patton, William F., Akron, assignor to Toledo Metal Sign and Advertising Company, Toledo, Ohio. Combined advertising-cabinet and bookcase	632,143	Aug. 29	4478	1008	88	1666
Patnreau, Gabriel, Paris, France. Box-machine	630,403	Aug. 8	1291	282, 283, 284, 285, 286, 287, 288, 289, 290, 291	88	990
Paugh, James, A. G. and J. W. Harris, La Grange, Ky. Grave-filling machine	623,419	Apr. 18	2257	517	87	471
Pauk, Henry E., St. Louis, Mo. Baker's peel	623,619	Apr. 25	2619	598	87	559
Paul, Carrick, Hurstville, assignor to Pacific Pearl Fishing Company, Limited, Sydney, New South Wales. Submarine vessel or diving apparatus	622,529	Apr. 4	627	147, 148	87	119
Paul, Harry, Chatham, N. Y. Spring-lock whip-socket	637,407	Nov. 21	2293	493	89	1419
Paul, Henry O., Clear Lake, Iowa. Hose-coupling	621,276	Mar. 14	1381	306	86	1782
Paul, Isaac, Stoyestown, Pa. Curtain-pole	619,214	Feb. 7	788	172	86	966
Paul, Isaac H., Jr., assignor of one-half to T. Arnold, Jr., Bridgeport, Conn. Hook and eye	619,706	Feb. 14	1665	382	86	1152
Paul, Robert M., Newport, Ky. Outlet-valve for water-tanks	629,464	July 25	2807	652	88	603
Paul, Wilhelm, Langen-Schwalbach, Germany. Educational apparatus	617,883	Jan. 17	1962	439	86	422
Pauli, Emil A., *et al.* (See Chapleau, Wildric, assignor.)						
Pauli, Emil A., assignor of four-fifths to J. Hewitt, O. S. Gauch, D. J. Wilson, and C. T. Blackford, Chicago, Ill. Hood for bicycle-lamps	627,704	June 27	2786	610	87	2212
Pauli, Emil A., assignor of four-fifths to J. Hewitt, O. S. Gauch, D. J. Wilson, and C. T. Blackford, Chicago, Ill. Acetylene-gas-generating lamp	627,705	June 27	2786	610, 611	87	2212
Pauli, Emil A., assignor of four-fifths to J. Hewitt, O. S. Gauch, D. J. Wilson, and C. T. Blackford, Chicago, Ill. Acetylene-gas-generating lamp	633,609	Sept. 26	2674	623, 624	88	2271
Paulson, Anders, Breda, Netherlands. Machine for filling match-boxes	638,136	Nov. 28	4029	849, 850	89	1821
Paulson, Hans, Sumner, Wash. Harrow	624,967	May 16	1869	420	87	1103
Paulson, Hans, Sumner, assignor of one-half to H. Klaber, Tacoma, Wash. Means for transmitting power	620,169	Feb. 28	2508	570	86	1355
Paulson, Hans, Sumner, assignor of one-half to H. Klaber, Tacoma, Wash. Bicycle-brake	637,821	Nov. 28	3416	714	89	1700
Paulson, Peter W., Chicago, Ill., assignor, by mesne assignments, to J. Underwood, New York, N. Y. Manifolding-book	619,691	Feb. 14	1630	372	86	1146
Paupa, Joseph, and G. Hochriem, Chicago, Ill. Coin-controlled apparatus	635,867	Oct. 31	3554	818	89	760
Pavia, Giuseppe, assignor to J. Jackson & Sons, Paterson, N. J. Jacquard mechanism for looms	622,257	Apr. 4	97	22	87	22
Pawley, Ernest C., and W. H. Miller, Sheldon, Ill. Combined tank and tank-heater	638,063	Nov. 28	3865	813	89	1790
Pawling, Francis W., Muncie, Ind. Bag-closure	624,677	May 9	1333	297	87	981
Paxson, Calvin D., Limaville, Ohio. Railway wear-plate and rail-brace	623,177	Apr. 18	1823	418	87	383
Paxson, Calvin D., Limaville, Ohio. Duplex railway wear-plate	623,420	Apr. 18	2259	517	87	472
Paxton, Rutherford H., Florence, Colo. Writing-tablet holder	619,607	Feb. 14	1469	336	86	1115
Payan, Octave, Bayeux, France. Apparatus for producing acetylene gas	626,032	May 30	3853	874	87	1526
Payne, Albert E. H., Barnes, England. Ready reckoner	632,844	Sept. 12	1211	277	88	1963
Payne, Charlotte E. (See Payne, Clyde S., assignor.)						
Payne, Clyde S., assignor to C. E. Payne, New York, N. Y. Mold for and method of making tooth-crowns	622,068	Mar. 28	2837	639, 640	86	2092
Payne, D. H., *et al.* (See Merritt, Edward H., assignor.)						
Payne, David W., Elmira, N.Y. Electrically-controlled valve-gear for gas or other motors	623,821	Apr. 25	2995	636	87	632

Alphabetical list of patentees—Continued.

Name, residence, and invention.	No.	Date.	Monthly volume. Spec.	Monthly volume. Dr'g.	Official Gazette. Vol.	Official Gazette. Page.
Payne, Elmer, New York, N. Y. Bridle-bit	623,333	Apr. 18	2107	483	87	441
Payne, Ernest E. M., Aylesbury, J. and E. E. Pullman, London, England; said Payne assignor to said J. and E. E. Pullman. Leather manufacture	618,722	Jan. 31	3537	------	86	751
Payne, Ernest E. M., Aylesbury, J. and E. E. Pullman, London, England; said Payne assignor to said J. and E. E. Pullman. Liming furs, &c	631,405	Aug. 22	3113	------	88	1387
Payne, George F., and A. K. Keller, Philadelphia, Pa.; said Keller assignor to said Payne. Telephone	626,629	June 6	726	167, 168	87	1756
Payne, Samuel R. (See Smith, George E., assignor.)						
Payne, William, Lawrence, Mich. Seed-drill valve	625,596	May 23	2972	675	87	1339
Payne, William, Pawnee, Mo. Evener for buggy-poles	633,658	Sept. 26	2756	641	88	2287
Payson, Joseph R., Chicago, Ill. Sash-lock	623,620	Apr. 25	2620	598	87	559
Payton, James Y., assignor of one-half to H. J. Hall, Waldron, Ark. Fish-hook	622,069	Mar. 28	2839	640	86	2092
Payton, W. D. (See Brower, Asher A., assignor.)						
Peacock, Anna B., *et al.* (See Peacock, George J., assignor.)						
Peacock, Charles D., Jr., *et al.* (See Engwall, Oscar F., assignor.)						
Peacock, George J., assignor of three-eighths to H. V. Potter, Pittsburg, Pa., and A. B. Peacock, Buffalo, N. Y. Horseshoe	632,423	Sept. 5	382	87	88	1781
Peacock, Horace F., Corunna, Mich. Combined hose carrier and support	633,899	Sept. 26	3170	736	88	2371
Peacock, John H., Wilkes-Barré, Pa. Lubricant	632,363	Sept. 5	275	------	88	1761
Peacock, Julian L., Lexington, N. C. Bed-brace	638,028	Nov. 28	3821	803	89	1781
Peacock, Walter C. (See Fyfe, Samuel, assignor.)						
Peacock, Walter C. (See Garde, James B., assignor.)						
Pead, Clement H., Boksburg, South African Republic. Slime-filter	624,533	May 9	1086	244, 245	87	933
Peak, William. (See Ray and Peak.)						
Pearce, Edward H., and A. Griffiths, Birmingham, England. Glass-boveling machine	640,019	Dec. 26	3372	772, 773	89	2584
Pearce, John, Ottawa, Ill. Making lamp-chimneys	625,985	May 30	3708	842	87	1500
Pearce, Louis, Fremantle, Western Australia. Means for altering gages of railway rolling-stock	617,180	Jan. 3	608	142, 143	86	119
Pearce, William, assignor of two-thirds to M. N. Woodruff and N. A. Barnes, Southington, Conn. Thill-coupling	617,181	Jan. 3	610	143	86	119
Pearl, Eugene T., New York, N. Y. Syringe-nozzle	616,963	Jan. 3	184	42	86	37
Pearre, Frank C., assignor to Electric Gas Light Company, Baltimore, Md. Acetylene-gas generator	635,507	Oct. 24	2872	655	89	615
Pearsall, Albert W., New York, N. Y., assignor to Lamson Consolidated Store Service Company, Newark, N. J. Pneumatic-despatch-tube apparatus	640,020	Dec. 26	3374	773	89	2585
Pearson, Charles H. (See Adams, George W., assignor.)						
Pearson, Charles W. (See Spurrier, Harry, assignor.)						
Pearson, Frank, and C. F. Ross, Beaver Falls, Pa. Guide for routing-machines	626,718	June 13	916	208	87	1810
Pearson, Frank E., Rockford, Ill. Cultivator	633,610	Sept. 26	2679	624	88	2272
Pearson, Fred S., Boston, Mass. Conduit for railways	619,783	Feb. 21	1327	417	86	1210
Pearson, Horace W., Portsmouth, N. H. String-holder for violins	635,347	Oct. 24	2522	586	89	546
Pearson, James W., assignor of one-half to W. J. Wood, London, England. Trawl-net. (Reissue)	11,717	Feb. 14	1675	384	86	1155
Pearson, John C., Pocatello, Idaho. Fastener for stock-cars	620,049	Feb. 21	2304	523	86	1300
Pearson, Olaf. (See Swenson, Albert, assignor.)						
Pearson, Richard, London, England. Automatic code telegraph fire-alarm apparatus	632,586	Sept. 5	684	159	88	1842
Pearson, Swain, Rock Island, Ill. Neck-yoke center	629,868	Aug. 1	213	49	88	762
Pearson, Walter B., Chicago, Ill. Machine for turning regular hexagons	633,108	Sept. 12	1709	402	88	2057
Pearson, William E., Boston, Mass. Brake and power apparatus for electrically-driven vehicles	634,832	Oct. 10	1571	369, 370	89	329
Peart, Alpheus A., Deloraine, Tasmania. Combined hoe and rake	626,926	June 13	1338	295	87	1891
Pease, A. de Etta, *et al.* (See Daigneau, John G., assignor.)						
Pease, Brice E., Gilmanton, N. H. Firing mechanism for guns	622,258	Apr. 4	98	22	87	22
Pease, Charles H., Atlantic City, N. J. Shutter-fastener	624,080	May 2	242	51	87	748
Pease, Edward L., Hurworth Moor, England. Roof	624,857	May 9	1671	379	87	1048
Pease, Harper. (See Stassart, Joseph D., assignor.)						
Peavy, Jasper L., and W. D. Dickson, assignors to said Peavy, J. R. Kelly, and K. R. Lewis, Vienna, Ga. Hame and trace connection	623,103	Apr. 11	1673	387	87	339
Pecht, John B., assignor to F. J. Baumert, New York, N. Y. Machine for molding cheese	636,839	Nov. 14	1155	250, 251	89	1182
Peck, Albert S., Geneva, assignor to McCormick Harvesting Machine Company, Chicago, Ill. Machine for gathering and loading hay	632,021	Aug. 29	4243	954, 955	88	1618
Peck, Barton L., Detroit, Mich. Motor-vehicle	638,029	Nov. 28	3822	804	89	1781
Peck Bros. & Company. (See Totham, James, assignor.)						
Peck, Caid H. (See Peck, Clarence W. and C. H.)						
Peck, Cassius C., Rochester, N. Y. Steam-boiler	630,560	Aug. 8	1603	358, 359	88	1048
Peck, Cassius C., Rochester, N. Y. Steam-boiler	632,277	Sept. 5	137	30, 31	88	1734
Peck, Charles M. and W. J., Wyoming, assignors to Globe Company, Cincinnati, Ohio. Card-file	633,364	Sept. 19	2212	519	88	2169
Peck, Clarence W. and C. H., Elmira, N. Y.; said C. H. Peck assignor to said Clarence W. Peck. Pneumatic tool	629,967	Aug. 1	449	96	88	812
Peck, Duncan W., Syracuse, N. Y. Producing artificial asphalt	624,081	May 2	243	------	87	748
Peck, Duncan W., Syracuse, N. Y. Producing artificial asphalt	624,082	May 2	244	------	87	748
Peck, Edward E., New Haven, Conn. Acetylene-gas lamp	622,015	Mar. 28	2754	621	86	2076
Peck, Eugene C., assignor to S. W. Card Manufacturing Company, Mansfield, Mass. Metal-working tool	639,279	Dec. 19	2000	461	89	2292
Peck, Franklin G., assignor to Seymour & Peck Company, Chicago, Ill. Air-tight package	636,449	Nov. 7	366	83	89	995
Peck, Ira F., Auburn, R. I., assignor to Victoria Self-Lacing Company, Portland, Me., and Boston, Mass. Holder for flies of boots or shoes	627,441	June 20	2289	504	87	2099
Peck, La Rue, Buffalo, N. Y. Solitaire game	631,050	Aug. 15	2474	560	88	1243
Peck, Staunton B., assignor to Link Belt Machinery Company, Chicago, Ill. Screw conveyer	635,868	Oct. 31	3556	818	89	760
Peck, Stow & Wilcox Company. (See Ellrich, Robert C., assignor.)						
Peck, Wallace H. (See Willis, Nathaniel, assignor.)						
Peck, William J. (See Peck, Charles M. and W. J.)						
Peck-Williamson Heating and Ventilating Company. (See Roberts, Lemuel S., assignor.)						
Peckham, James M., Fall River, Mass. Let-off for looms	621,277	Mar. 14	1382	306	86	1782
Peckham Motor Truck and Wheel Company. (See Uebelacker, Charles F., assignor.)						
Peddie, Frank J., *et al.* (See Balwick, Louis H., assignor.)						
Peden, John H., Lexington, Ky. Gasolene-fixture	635,180	Oct. 17	2226	518	89	474
Peden, Thomas A., Logansport, Ind. Cultivator-tooth	631,473	Aug. 22	3241	735	88	1412
Pedersen, Henry, New York, N. Y. Apparatus for operating electric signals for elevators	629,302	July 18	2493	581, 582	88	520

Alphabetical list of patentees—Continued.

Name, residence, and invention.	No.	Date.	Monthly volume. Spec.	Monthly volume. Dr'g.	Official Gazette. Vol.	Official Gazette. Page.
Pedersŏn, Johannes T., New York, N. Y. Driving mechanism for cycles	619,498	Feb. 14	1291	296	86	1082
Pedersen, Mikael, Dursley, England. Saddle for cycles	618,613	Jan. 31	3338	742	86	711
Pedersen, Mikael, Dursley, England. Bicycle	628,843	July 11	1679	392	88	348
Pedersen, Mikael, Dursley, England. Cycle	634,585	Oct. 10	1148	272	89	245
Pedersen, Mikael, Dursley, England. Pedal for cycles	637,657	Nov. 21	3109	644	89	1618
Pedersen, Wilhelm G., Hellerup, L. Adler, and P. N. Holst, Copenhagen, Denmark. Cigarette-making machine	622,163	Mar. 28	3027	685	86	2139
Pedneau, Francois L., Jarratt's, Va. Railway-switch	629,811	Aug. 1	90	22	88	738
Pedrick, William, Moorestown, N. J. Case or holder for adhesive articles	635,582	Oct. 24	3002	689	89	640
Peek, Edward E., *et al.* (See Lehmann, Henry C., assignor.)						
Peek, James A., West Plains, Mo. Hub-attaching device	624,968	May 16	1872	420, 421	87	1104
Peel, Christopher, New York, N. Y. Fire-escape	629,205	July 18	2338	542	88	491
Peeples, George, Washington, D. C. Insulated pipe-coupling	635,869	Oct. 31	3557	819	89	761
Peers, Kester J., Boston, Mass. Letter-box	621,973	Mar. 28	2690	605, 606	86	2062
Peerstone, Earl D., Chicago, Ill. Crank for bicycles	626,630	June 6	728	168	87	1756
Peery, Emory W., Rural Retreat, Va. Curette	622,386	Apr. 4	318	73	87	60
Peet, Roudolphus. (See Stewart, Samuel M., assignor.)						
Peet, Rodolphus, Escondido, Cal. Combined clod-crusher, leveler, and cultivator	623,179	Apr. 18	1828	418, 419	87	384
Peet, William C. (See Powdrill and Peet.)						
Pegg, John, Bloomingport, Ind. Rake attachment for harvesters	630,102	Aug. 1	707	152, 153	88	864
Peglow, Albert, Menomonee Falls, Wis. Heating system	637,023	Nov. 14	1532	330	89	1256
Peikert, Albert, assignor of two-thirds to V. A. Perry and J. S. Maguffee, Belton, Tex. Buggy-top attachment	626,719	June 13	919	208	87	1810
Pein, Emil F. G., Hamburg, Germany. Target	638,986	Dec. 12	1479	339, 340	89	2175
Peirce, A. E., *et al.* (See Mills, William H., assignor.)						
Peirce, Adolphus E. (See Peirce, John T., assignor.)						
Peirce, Arthur H. (See Casper, Louis, assignor.)						
Peirce, Arthur H., *et al.* (See Harris, William L., assignor.)						
Peirce, Herbert W., Waltham, Mass. Signal mechanism	618,723	Jan. 31	3540	790	86	751
Peirce, John T., assignor of one-fourth to A. E. Peirce, Breland, La. Horse-detacher	625,695	May 23	3134	712	87	1371
Peirce, William C., Providence, R. I. Roving-machine	617,511	Jan. 10	1229	280, 281	86	259
Peisen, Bartholomew, Eldora, Iowa. Bicycle-support	623,421	Apr. 18	2260	518	87	472
Pelatan, Louis, Paris, France, assignor to General Gold Extracting Company, Limited, London, England. Apparatus for treating ores or the like	623,822	Apr. 25	2997	686, 687	87	632
Pelatan, Louis, Paris, France, assignor to General Gold Extracting Company, Limited, London, England. Electrolytically treating ores	627,442	June 20	2291	504, 505	87	2100
Pelham, Walter O., St. Louis, Mo. Releasing device for drive-wheel brakes	618,478	Jan. 31	3091	685	86	664
Pella Automatic Straw Stacker Company. (See Van Houweling, Arthur, assignor.)						
Pellerin, Joseph H., assignor to S. Pellerin, Montreal, Canada. Machine for giving form to materials	630,265	Aug. 1	977	215	88	915
Pellerin, Seraphin. (See Pellerin, Joseph H., assignor.)						
Pelletier, Arthur G. (See Cartier, Jacob, assignor.)						
Pellow, Charles E., Alameda, Cal. Leather-dressing machine	632,364	Sept. 5	276	64, 65	88	1761
Pellow, James E., Denver, Colo. Leaf-turner	621,769	Mar. 21	2284	514	86	1969
Pelmulder, Charles, Grant City, Iowa. Automatic stock-watering fountain	628,112	July 4	297	70	88	59
Peloubet, Esten, Alexander, assignor of one-half to D. R. Wing, Little Rock, Ark. Attachment for freight-cars	621,278	Mar. 14	1383	306	86	1782
Peloux, Albert, Geneva, Switzerland. Electric meter	632,144	Aug. 29	4480	1008, 1009	88	1666
Pels, Julius, *et al.* (See Greenhow, Thomas P., assignor.)						
Pels, Moses, *et al.* (See Greenhow, Thomas P., assignor.)						
Pelton, Abner A., Spokane, Wash. Sandpapering-machine	618,724	Jan. 31	3541	791	86	751
Pelton, Frank E., Wilkinsburg, and J. R. Love, Allegheny, Pa. Head for barrels, casks, &c.	635,583	Oct. 24	3004	689	89	640
Pelton, Josiah J., assignor to Gem Manufacturing Company, Limited, Miles Grove, Pa. Clothes-drier	628,211	July 4	471	112	88	94
Pelton Water Wheel Company. (See Blue, Frederick K., assignor.)						
Pelton Water Wheel Company. (See Krase, William J., assignor.)						
Penberthy Injector Company. (See Downes, William A., assignor.)						
Pence, Robert S., Kearney, Mo. Seed-harvester	637,281	Nov. 21	2035	437	89	1367
Pender, John, Brunswick, Victoria. Motor-vehicle	637,658	Nov. 21	3110	644, 645	89	1618
Pendergast, Judith M. (See Pendergast and Whidden, assignors.)						
Pendergast, Maurice D., Hutchinson, and J. M. Whidden, St. Paul, assignors to J. M. Pendergast, Hutchinson, Minn. Fence-making machine	628,253	July 4	556	133, 134, 135, 136	88	109
Pendery, William H. (See Crabbs and Pendery.)						
Pendleton, Albert M., Salt Lake City, Utah. Bridle-bit	630,515	Aug. 8	1518	340	88	1031
Pendleton, Louis B., Nashville, Tenn., assignor to Mergenthaler Linotype Company, New York, N. Y. Mold	618,582	Jan. 31	3288	730	86	702
Pendley, William M., Springplace, Ga. Cotton or corn planter	621,847	Mar. 28	2429	542, 543	86	2013
Pendry, William A., Detroit, Mich. Turning-tool	638,880	Dec. 12	1287	292, 293	89	2136
Pendry, William A., Detroit, Mich. Button-blank-cutting machine	638,881	Dec. 12	1291	293, 294	89	2137
Peninsular Stove Company. (See Cope, Henry P., assignor.)						
Peninsular Stove Company. (See Dwyer and Lane, assignors.)						
Penman, William, Glasgow, Scotland. Water-tube boiler	632,198	Aug. 29	4587	1033	88	1685
Penn Electrical and Manufacturing Company. (See Wright and Curry, assignors.)						
Penn, Henry. (See Meacock and Penn.)						
Penn, William E., assignor to F. B. Fargo & Company, Lake Mills, Wis. Combined churn and butter-worker	628,988	July 18	1946	453	88	416
Penn, William E., assignor to F. B. Fargo & Company, Lake Mills, Wis. Rotary pump	628,989	July 18	1948	453, 454	88	416
Penney, Ida W., Buffalo, N. Y. Tape-needle	618,365	Jan. 24	2866	636	86	607
Penney, Ida W., Fort Thomas, Ky. Collar-button	625,516	May 23	2836	646	87	1313
Penney, Loren W. (See Mills and Penney.)						
Penney, Loren W., Newton, Mass., assignor to Saco & Pettee Machine Shops, of Massachusetts. Roller-clearer	617,904	Jan. 17	2012	448	86	431

Alphabetical list of patentees—Continued.

Name, residence, and invention.	No.	Date.	Monthly volume. Spec.	Monthly volume. Dr'g.	Official Gazette. Vol.	Official Gazette. Page.
Penney, Loren W., assignor to Pettee Machine Works, Newton, Mass. Apparatus for grinding cards	620,353	Feb. 28	2839	648 649	86	1417
Pennie, John, Albany, N. Y. Sash holder and fastener	638,882	Dec. 12	1295	294	89	2138
Penning-Dupuis, Eduard, Halle-on-the-Saale, Germany. Trolley	639,932	Dec. 26	3216	737	89	2553
Pennington, Edward. (See Wearden, Thomas, assignor.)						
Pennington, Edward J., Coventry, England. Self-propelled vehicle	626,294	June 6	135	34	87	1639
Pennington, Edward J., Walton-upon-Thames, England. Muffler for explosion-engines	618,479	Jan. 31	3093	685	86	665
Pennington, Edward J., Walton-upon-Thames, England. Motor attachment for bicycles	626,295	June 6	137	34	87	1640
Pennington, Edward J., Walton-upon-Thames, England. Device for steering motor-driven vehicles	626,296	June 6	138	35	87	1640
Pennington, Edward J., Walton-upon-Thames, England. Motor-vehicle	627,523	June 27	2438	536 537	87	2145
Pennock, Frederick G., Braintree, assignor of one-half to W. H. Doble, Quincy, Mass. Adjustable crank for bicycles or velocipedes	625,986	May 30	3712	842	87	1500
Pennock, Lundy L. (See Smith, Henry W., assignor.)						
Pennsylvania Globe Gas Light Company. (See Prendergast, Daniel J., assignor.)						
Pennsylvania Globe Gas Light Company. (See Schauer, Edward J., assignor.)						
Pennsylvania Globe Gas Light Company. (See Slinack, Victor H., assignor.)						
Pennsylvania Globe Gas Light Company. (See Thayer, Russell, assignor.)						
Pennsylvania Globe Gas Light Company. (See Wilson, Thomas, assignor.)						
Pennsylvania Iron Works Company. (See Hitchcock, Frank I., assignor.)						
Penny, George. (See Holmes, Penny, and Hodgson.)						
Penny, James W., New York, N. Y. Hat	623,032	Apr. 11	1527	353	87	311
Penny, Salvator, New York, N. Y. Non-refillable bottle	630,737	Aug. 8	1898	428	88	1105
Penny, William H., Danbury, Conn. Hammer	619,608	Feb. 14	1470	336	86	1115
Pennycuick, James G., and F. W. Barrett, Toronto, Canada. Lamp-globe	639,687	Dec. 19	2774	640	89	2446
Penrod, Samuel Y., Choteau, Mont. Nailing-machine	635,181	Oct. 17	2228	519	89	474
Penrose, George A. and T. F., and W. R. Ware, Meredith, Ark. Metallic railway-tie	617,600	Jan. 10	1406	319	86	292
Penrose, Thomas F. (See Penrose and Ware.)						
Penseyres, William H., Buffalo, N. Y. Bicycle crank-shaft	619,339	Feb. 14	1009	228	86	1027
Penseyres, William H., Buffalo, N. Y. Bicycle crank-shaft	619,499	Feb. 14	1294	297	86	1082
Penseyres, William H., assignor to G. Haberer, Buffalo, and J. Danheiser, Hamburg, N. Y. Back-pedaling brake	634,700	Oct. 10	1343	317 318	89	285
Pentelow, William M., *et al.* (See Valiant, George, assignor.)						
Pentz, John W. (See Colkitt and Pentz.)						
Penwell, Landon, New Troy, assignor of one-half to G. F. Phillippy, Galien, Mich. Repairing or joining device	637,024	Nov. 14	1534	330	89	1257
Penzel, Gustav L., and E. Müller, New York, N. Y. Clarinet	623,422	Apr. 18	2263	518	87	473
People, Katie E., *et al.* (See Hermann, Robert A. M., assignor.)						
Peoples, Erasmus O., assignor to National Casket Company, Allegheny, Pa. Burial-casket	629,090	July 18	2139	497	88	455
Peoples, Ner K., Watson, Mo. Bicycle driving-gear	620,797	Mar. 7	480	100 101	86	1595
Peoples, William. (See Asbury and Peoples.)						
Pepin, John R., Chicago, Ill. Electric-arc lamp	626,190	May 30	4176	950	87	1585
Peppard, Isaac H., Bluffton, Ind. Hoodwink	631,227	Aug. 15	2775	629	88	1303
Peppard, William J., Percy, Miss. Bale-tie	620,170	Feb. 28	2509	571	86	1355
Pepper, James W., Philadelphia, Pa. Folding bedstead	631,474	Aug. 22	3242	735	88	1412
Pepper, James W., Philadelphia, Pa. Folding bedstead	640,021	Dec. 26	3376	774	89	2586
Pepper, James W., Philadelphia, Pa. Folding bedstead	640,022	Dec. 26	3378	774	89	2586
Pepperling, William, Aitkin, Minn. Steam-engine	625,195	May 16	2257	513	87	1176
Pequegnat, Emile E., St. Louis, Mich. Eyeglasses	635,508	Oct. 24	2873	655	89	615
Percival, Charles F., and E. E. Liddell, assignors to Percival Furniture Company, Barton, Vt. Button-holder for upholstering apparatus	637,025	Nov. 14	1535	330	89	1257
Percival Furniture Company. (See Baldwin, Charles C., assignor.)						
Percival Furniture Company. (See Percival and Liddell, assignors.)						
Percival, Henry G., London, England. White-lead chamber	625,196	May 16	2259	513 514	87	1176
Percival, Sylvanus, Barnstable, Mass. Weeding-tool	633,729	Sept. 26	2886	671	88	2314
Percy, Frank S., Row Landing, La. Apparatus for vending liquids	636,171	Oct. 31	4157	954	89	881
Perdrizet, Paul E. L., Paris, France. Imitation mosaic enamel	631,490	Aug. 22	3276	745	88	1419
Perdue, Eleazar T., Huguenot, Va. Solar-heating automatic well-ventilator	627,010	June 13	1493	326	87	1923
Peregrine, Seymour W., Grand Rapids, Mich., assignor to C. J. Reed, New York, N. Y. School seat and desk	635,584	Oct. 24	3006	689 690	89	640
Perew, Helen E. (See Perew, Louis P., assignor.)						
Perew, Louis P., assignor to H. E. Perew, Tonawanda, N. Y. Towing system for canal-boats	633,294	Sept. 19	2063	483 484	88	2140
Perfection Cash Register Company. (See Petersen and Eberhardt, assignors.)						
Perfection Light Company. (See English, Andrew J., assignor.)						
Perham, Charles F., Lowell, Mass. Let-off mechanism for looms	631,430	Aug. 22	3164	718	88	1397
Perkes, Charles, Philadelphia, Pa. Water-closet valve	638,594	Dec. 5	769	167	89	2013
Perkes, Henry H., London, England. Support for bicycles	633,036	Sept. 12	1552	361	88	2027
Perkins, Charles G. (See Gibbs, Jacob S., assignor.)						
Perkins, Charles G., assignor to Perkins Electric Switch Manufacturing Company, Hartford, Conn. Incandescent-lamp socket	626,927	June 13	1339	295	87	1891
Perkins, Charles G., assignor to Perkins Electric Switch Manufacturing Company, Hartford, Conn. Key-socket	628,990	July 18	1950	454	88	416
Perkins, Charles G., assignor to Perkins Electric Switch Manufacturing Company, Hartford, Conn. Electrical cut-out	637,890	Nov. 28	3554	745	89	1729
Perkins, Charles G., assignor to Perkins Electric Switch Manufacturing Company, Hartford, Conn. Fusible plug	637,891	Nov. 28	3555	745	89	1729
Perkins, Charles G., and J. Tregoning, assignors to Perkins Electric Switch Manufacturing Company, Hartford, Conn. Electric switch	637,892	Nov. 28	3557	745	89	1729
Perkins, Charles S., assignor of one-half to J. P. and R. P. Price, Chicago, Ill. Feeder for perforating-machines	634,246	Oct. 3	515	131	89	104
Perkins, Edward A., Gordon, Ga. Axle-box	638,752	Dec. 12	1075	240	89	2097
Perkins Electric Switch Manufacturing Company. (See Moyer, Gilbert L., assignor.)						
Perkins Electric Switch Manufacturing Company. (See Perkins, Charles G., assignor.)						
Perkins Electric Switch Manufacturing Company. (See Perkins and Tregoning, assignors.)						
Perkins, Eugene S. (See Ray, Walters, and Perkins.)						
Perkins, Franklin J. (See Vaughn and Perkins.)						
Perkins, Franklin J., Woburn, Mass., assignor to Vaughn Machine Company, Portland, Me. Band-saw guide	639,280	Dec. 19	2002	461	89	2292
Perkins, George H., Philadelphia, Pa. Can	623,334	Apr. 18	2108	484	87	441
Perkins, George W., *et al.* (See Nelson, Edward E., assignor.)						
Perkins, Harry J., Grand Rapids, Mich. Gas or vapor engine	630,738	Aug. 8	1900	429	88	1105

Alphabetical list of patentees—Continued.

Name, residence, and invention.	No.	Date.	Monthly volume. Spec.	Monthly volume. Drg.	Official Gazette. Vol.	Official Gazette. Page.
Perkins, Ivan S., Frankfort, Kans. Combined plow and planter	637,026	Nov. 14	1537	331	89	1257
Perkins, James B., assignor of two-thirds to C. B. and H. Nelson, Lewiston, Idaho. Shovel	620,493	Feb. 28	3060	700	86	1458
Perkins, James D. (See Wilson and Perkins.)						
Perkins, Josiah P., Indianapolis, Ind. Ice-cream freezer	637,893	Nov. 28	3559	746	89	1730
Perkins, Julius A., Omaha, Nebr. Cage for bearings	627,137	June 20	1705	374	87	1983
Perkins Machine Company. (See Perkins, Nicholas P., assignor.)						
Perkins, Nicholas P., Roanoke, Va., assignor to Perkins Machine Company, of Virginia. Machine for granulating tobacco	635,076	Oct. 17	2026	479	89	437
Perkins, Oscar P., Conroe, Tex. Gate-latch	625,057	May 16	2021	455	87	1132
Perkins, Paul B., Los Angeles, Cal. Compressed-air pump	640,023	Dec. 26	3379	774, 775	89	2586
Perkins, Robert F., St. Louis, Mo. Candle-holder	633,900	Sept. 26	3172	736	88	2371
Perkins, Thomas E., Manchester, England. Machine for making dress-binding	636,693	Nov. 7	838	186	89	1092
Perkins, Walter H., assignor to Waterbury Manufacturing Company, Waterbury, Conn. Bedstead-ball	629,598	July 25	3071	716	88	653
Perkins, William W., Madisonville, La. Nut-lock	624,083	May 2	244	51	87	748
Perkinson, J. E., *et al.* (See Gravely, Willis L., assignor.)						
Perky, Jefferson A., Dewey, Mo. Gate	629,014	July 18	1992	464	88	425
Perky, Henry D., Worcester, Mass. Apparatus for making folded wafers	618,288	Jan. 24	2733	605	86	582
Perky, Henry D., Worcester, Mass. Machine for reducing and baking cereals in form	625,696	May 23	3135	712	87	1371
Perl, Jacques, Berlin, Germany. Automatic gas-igniter	627,654	June 27	2699	592	87	2197
Perley, George F., assignor to F. A. Whitney Carriage Company, Leominster, Mass. Child's carriage	638,670	Dec. 5	898	198	89	2040
Perlinsky, Max A., assignor of one-half to P. Perlinsky, Chicago, Ill. Glove	635,269	Oct. 17	2375	555	89	502
Perlinsky, Paul. (See Perlinsky, Max A., assignor.)						
Pernot, Victor A. (See Fay, William J., assignor.)						
Pernot, Victor A., Colegrove, Cal. Mitering instrument	622,530	Apr. 4	630	148	87	119
Pero, William B., and J. Koerner, Louisville, Ky.; said Koerner assignor to said Pero. Conveyer	640,024	Dec. 26	3381	775	89	2587
Perpente, William, New Haven, Conn. Speaking-tube for vehicles	631,124	Aug. 15	2609	590	88	1269
Perret, Marc, Belley, France. Adjustable support for temporary centerings	634,671	Oct. 10	1291	304	89	275
Perreur-Lloyd, Marcel, Paris, France, assignor to Electrical Copper Company, Limited, London, England. Electrolytic apparatus and treating impregnators therefor	626,033	May 30	3855	------	87	1526
Perreur-Lloyd, Marcel, assignor to Electrical Copper Company, Limited, London, England. Electrodepositing-cell	636,212	Oct. 31	4236	------	89	896
Perrie, John. (See McDougall and Perrie.)						
Perrin, Henri, Waterbury, Conn. Fishing alarm device	632,823	Sept. 12	1176	269	88	1956
Perrin, Thomas, Sedalia, Mo. Steam-cooker	632,199	Aug. 29	4588	1033	88	1686
Perrin, William H., assignor of one-half to J. R. Lavell, Smith's Falls, Canada. Sulky-plow. (Reissue)	11,795	Dec. 12	1872	432	89	2250
Perrine, Harmanus L., Milwaukee, Wis. Valve-gear for pumping-engines	639,281	Dec. 19	2003	461	89	2292
Perrine, Harmanus L., Milwaukee, Wis. Duplex pumping-engine	639,282	Dec. 19	2005	462	89	2293
Perrine, Harmanus L., Milwaukee, Wis. Duplex steam pumping-engine	639,283	Dec. 19	2007	463	89	2293
Perrott, Samuel V. (See Duncan, John R., assignor.)						
Perrottet, Louis A., and E. Angly, New York, N. Y.; said Angly assignor to said Perrottet. Combined light-increasing device and smoke-bell	637,027	Nov. 14	1539	331	89	1258
Perrottet, Marie L., New York, N. Y. Garment-fastening device	630,516	Aug. 8	1521	341	88	1032
Perry, Alice, Cherokee, Kans. Educational appliance	635,182	Oct. 17	2229	519	89	475
Perry, Alvy G., Coldwater, Miss. Combined cotton-seed planter and fertilizer-distributer	626,561	June 6	619	143	87	1735
Perry, Alvy G., Coldwater, Miss. Attachment for cultivators	626,562	June 6	621	143	87	1735
Perry, Charles E., San Francisco, assignor of three-fourths to H. P. Dwight, Oakland, Cal. Combination hammer and nail-extractor	632,227	Aug. 29	4629	1043	88	1693
Perry, Clarence E., Coventry, Vt. Rack	634,908	Oct. 17	1708	403	89	372
Perry, Edward L., Paterson, N. J. Steam-packing gasket	619,784	Feb. 21	1829	418	86	1210
Perry, Edward L., Paterson, N. J. Composition for printers' inking-rollers	630,517	Aug. 8	1523	------	88	1032
Perry, Edward L., Paterson, N. J. Jacket for printers' rollers	633,152	Sept. 19	1797	423	88	2086
Perry, Edward L., Jr., Paterson, N. J. Gage-glass packing	631,661	Aug. 22	3583	807	88	1481
Perry, Edward L., and Edward L., Jr., Paterson, N. J. Bellows-fold coupling for vestibule-cars	619,785	Feb. 21	1829	418	86	1211
Perry, Everett T., Wilmington, Mass. Nut-lock	637,483	Nov. 21	2418	525	89	1444
Perry, Francis B., *et al.* (See Allen, George W., assignor.)						
Perry, Frank, assignor to John Kroder & Henry Reubel Company, New York, N. Y. Rod or fixture for sash-curtains	639,609	Dec. 19	2612	602	89	2415
Perry, Harry A., Chicago, Ill. Saddle	630,266	Aug. 1	979	215, 216	88	916
Perry, Henry C., Wilkes-Barré, Pa. Violin	639,764	Dec. 26	2924	673	89	2494
Perry, Hubert M., Denver, Colo. Draft-gear for railway-cars	624,084	May 2	245	51, 52	87	749
Perry, James C., New York, N. Y., assignor to L. P. Adams. Thill-coupling	620,721	Mar. 7	337	69	86	1567
Perry, James S., assignor to A. M. Gates, Kalamazoo, Mich. Railway-switch	630,518	Aug. 8	1524	341	88	1032
Perry, James S., assignor to A. M. Gates, Kalamazoo, Mich. Railway-crossing	630,519	Aug. 8	1526	341	88	1033
Perry, James W., Shamokin, Pa. Pneumatic device for bicycles or vehicles	621,370	Mar. 21	1551	344	86	1827
Perry, James W., assignor of one-half to J. W. Rutland, Monetta, S. C. Plow-stock	638,399	Dec. 5	408	86	89	1944
Perry, John C., Lynn, Mass. Wire-fence-making machine	619,692	Feb. 14	1632	372, 373, 374, 375	86	1146
Perry, John C., Clinton, Mass. Wire-fence-making machine	633,213	Sept. 19	1908	449, 450, 451	88	2102
Perry, John C., Clinton, Mass. Machine for electrically welding wire fabrics	633,214	Sept. 19	1917	451, 452	88	2111
Perry, Lawrence R., assignor, by mesne assignments, to Improved Match Company, Detroit, Mich. Machine for making boxes	635,804	Oct. 31	3425	789, 790	89	736
Perry, Lewis H., New York, assignor to American Writing Machine Company, Ilion, N. Y. Type-writing machine	635,942	Oct. 31	3691	853	89	787
Perry, Raymond A., Oakland, Cal., assignor of one-half to Atlantic, Gulf and Pacific Company, of West Virginia. Dredger	638,883	Dec. 12	1296	294, 295	89	2138
Perry, Thomas C., Sulphur Springs, Tex. Umbrella-case	636,450	Nov. 7	368	83	89	995
Perry, Thomas O., Chicago, Ill. Fluid-actuated motor for actuating fluid	623,547	July 11	1121	262, 263	88	236
Perry, Thomas O., Chicago, Ill. Hydraulic motor and air-compressor	629,869	Aug. 1	214	49	88	762
Perry, Vethi A., *et al.* (See Peikert, Albert, assignor.)						
Perry, William, Cole's Station, Mich. Fence-post base	634,672	Oct. 10	1292	304	89	275
Perry, William J., Boston, Mass. Trunk-hinge	638,884	Dec. 12	1298	295	89	2139
Person, Lot, Cartwright, Pa. Boring or drilling machine	624,858	May 9	1674	379	87	1048

Alphabetical list of patentees—Continued.

Name, residence, and invention.	No.	Date.	Monthly volume.		Official Gazette.	
			Spec.	Dr'g.	Vol.	Page.
Persons, Charles M., *et al.* (See Bainter, Charles F., assignor.)						
Pertsch, Gustave. (See Helbing and Pertsch.)						
Pertsch, Gustave, assignor to La Société Chimique des Usines du Rhône, Anciennement Gilliard, P. Monnet et Cartier, Lyons, France. Local anesthetic	628,489	July 11	1007	------	88	215
Pertwee, Frederick. (See Baxter, Charles, assignor.)						
Pervear, Charles E., W. W. Harrison, and J. Holt, Pawtucket, R. I. Haircloth-loom	628,231	July 4	506	122, 123	88	101
Peschek, Julius. (See Booker, Frederick, assignor.)						
Petchaft, Bernard, New York, N. Y. Foot-covering	619,837	Feb. 21	1923	438	86	1229
Peter, John E., Thomas, W. Va. Railway-switch	634,309	Oct. 3	645	157	89	130
Peter, William H., and H. A. Keigwin, Washington, D. C. Soft-tread horseshoe	626,091	May 30	3954	898	87	1544
Petermann, Fritz, New York, N. Y. Guitar-cithern	622,822	Apr. 11	1144	265	87	236
Peters, Alexander B., London, England. Sewing-machine	635,974	Oct. 31	3760	867, 868	89	800
Peters, Arthur, Manitou, Colo. Holder for fuse-wires	637,941	Nov. 28	3641	764	89	1745
Peters, Arthur, Manitou, Colo. Electric-light appliance for controlling the number of incandescent lights to be burned on a circuit	639,824	Dec. 26	3029	697	89	2516
Peters, Benjamin S. (See Walden, Edward C., assignor.)						
Peters Cartridge Company. (See Place, William B., assignor.)						
Peters, Frank M., Chicago, Ill. Method of and means for packing biscuit, crackers, or the like	621,974	Mar. 28	2694	606, 607, 608	86	2063
Peters, Frank M., Chicago, Ill Paper-box machine	634,627	Oct. 10	1214	288	89	258
Peters, Frederick. (See Gierth and Peters.)						
Peters, Gershom M., Cincinnati, Ohio. Explosive and making same	617,766	Jan. 17	1724	------	86	374
Peters, Henry G. B., Baltimore, Md. Collaret	624,085	May 2	248	52	87	749
Peters, Mary B. (See Peters, William K., assignor.)						
Peters, Perlai W., Washington, D. C. Detachable saddle-pommel	623,178	Apr. 18	1826	418	87	383
Peters, William K., assignor to M. B. Peters, New York, N. Y. Pneumatic pump	629,812	Aug. 1	92	22, 23	88	738
Petersen, August F. (See Mackeprang, Petersen, and Möller.)						
Petersen, Carl, Copenhagen, Denmark. Apparatus for indicating the number of conversations through telephones	628,113	July 4	298	70	88	59
Petersen, Christian. (See Worthington and Petersen.)						
Petersen, Emil B., Kearny, N. J. Heat or cold indicator	627,524	June 27	2440	537	87	2145
Petersen, Fred J., and W. C. Eberhardt, assignors to Perfection Cash Register Company, Plymouth, Wis. Cash-register	639,430	Dec. 19	2300	531, 532	89	2351
Petersen, Peter A., Webster, S. D. Window	621,501	Mar. 21	1785	397	86	1871
Petersen, Peter C., Chicago, Ill. Cigarette-making machine	630,103	Aug. 1	712	153	88	864
Peterson, Alfred, Rockford, Ill. Picture-exhibitor	625,939	May 30	3616	822	87	1482
Peterson, Andrew H., San Simeon, Cal. Spring brake-shoe	634,182	Oct. 3	364	93	89	75
Peterson, August, Victoria, Ill. Hobby-horse	626,297	June 6	139	35	87	1640
Peterson, August C., Victoria, Ill. Combined wagon and boat	632,741	Sept. 12	1013	235, 236	88	1921
Peterson, Charles A., Hot Springs, S. D. Cut-off valve	619,088	Feb. 7	548	116	86	917
Peterson, Charles E., Minneapolis, Minn., assignor of one-half to R. C. Cox, New York, N. Y. Type-writer	634,183	Oct. 3	365	93, 94	89	75
Peterson, Charles F., *et al.* (See Berg, Theodore, assignor.)						
Peterson, David L. B., East Orange, N. J. Desk attachment	635,585	Oct. 24	3008	690	89	641
Peterson, Gust K., Holcomb, Ill. Keyhole-guard	627,238	June 20	1879	412	87	2018
Peterson, Gustav A., and A. Olson, Florenco, Minn. Artificial bait	638,885	Dec. 12	1299	296	89	2139
Peterson, Henry E., St. Paul, Minn. Device for drawing corks	632,742	Sept. 12	1017	236	88	1922
Peterson, Jacob H., Des Moines, Iowa. Elastic wheel for vehicles	627,593	June 27	2588	570	87	2174
Peterson, Jeremiah M. (See Wettlin and Peterson.)						
Peterson, John C. and N. B., Seattle, Wash. Self-propelling traction-sled	617,905	Jan. 17	2013	448	86	431
Peterson, John W. (See Dies and Lundgren, assignors.)						
Peterson, Lewis, Madrid, Iowa. Gun-barrel	618,901	Feb. 7	143	31	86	833
Peterson, Louis. (See Nelson, Charles A., assignor.)						
Peterson, Nils B. (See Peterson, John C. and N. B.)						
Peterson, Oliver, Howe, Pa. Mud-guard	617,836	Jan. 17	1870	418	86	403
Peterson, Orra A., *et al.* (See Wettlin and Peterson, assignors.)						
Peterson, Peter, Reels, Iowa. Bolt	624,969	May 16	1874	421	87	1105
Peterson, Peter, Reels, Iowa. Bridle-bit rein-ring	628,114	July 4	300	71	88	60
Peterson, Peter A., Lake Mills, Iowa. Corn-planter attachment	631,662	Aug. 22	3584	808	88	1481
Petesch, Henry. (See Donges and Petesch.)						
Pethick, John T. (See Spencer and Pethick.)						
Petmecky, Joseph C., assignor to J. G. Petmecky and H. M. Finch, Austin, Tex. Rubber compound	626,092	May 30	3955	------	87	1544
Petmecky, Joseph G., *et al.* (See Petmecky, Joseph C., assignor.)						
Petraeus, Carl V., Joplin, Mo. Manufacturing litharge	637,028	Nov. 14	1541	331, 332	89	1258
Petram, Henry F., and E. Maschek, Ottumwa, Iowa. Carpet-fastener	620,957	Mar. 14	784	172	86	1667
Petre, Lewis D., Chicago, Ill. Ball-bearing for opera or other chairs	622,861	Apr. 11	1219	284	87	250
Petréano, Etiénne, Paris, France. Reversing-gear for gas or petroleum engines	632,743	Sept. 12	1018	236	88	1923
Petrie, August. (See Mitchel, William, assignor.)						
Petrilla, Louis, New York, N. Y. Support for mattress-frames	618,289	Jan. 24	2734	606	86	582
Petro, Charles W. (See Petro, Samuel H., assignor.)						
Petro, Samuel H., assignor of one-half to C. W. Petro, Darlington, Ind. Combind hay and stock rack	638,201	Nov. 28	4152	877	89	1846
Petsch, Frank. (See Reiber and Petsch.)						
Petsch, John P. A., Los Angeles, Cal. Badge-fastener	632,845	Sept. 12	1214	278	88	1964
Petsche, Gustav B., assignor to Southwark Foundry and Machine Company, Philadelphia, Pa. Pump	618,725	Jan. 31	3541	791	86	751
Petsche, Gustav B., assignor to Southwark Foundry and Machine Company, Philadelphia, Pa. Valve-actuating mechanism	620,171	Feb. 28	2510	571	86	1355
Petsche, Gustav B., assignor to Southwark Foundry and Machine Company, Philadelphia, Pa. Dash-pot and actuating-cylinder	632,744	Sept. 12	1021	237	88	1923
Pett, Sydney J., Redruth, England. Washing-machine	617,405	Jan. 10	1057	240	86	225
Pettee, Edward E., and J. J. McCutchan, New York, N. Y. Compression of air and utilization thereof	637,661	Nov. 21	3116	646	89	1620
Pettee, Edward E., and J. J. McCutchan, New York, N. Y., assignors, by mesne assignments, to Automatic Air Carriage Company, of New York. Compression of air and utilization thereof	637,659	Nov. 21	3113	645	89	1619
Pettee, Edward E., and J. J. McCutchan, New York, N. Y., assignors, by mesne assignments, to Automatic Air Carriage Company, of New York. Utilization of compressed air for motor purposes	637,660	Nov. 21	3114	646	89	1619

Alphabetical list of patentees—Continued.

Name, residence, and invention.	No.	Date.	Monthly volume.		Official Gazette.	
			Spec.	Dr'g.	Vol.	Page.
Pettee, Frank A. (See Hall, Charles A., assignor.)						
Pettee Machine Works. (See Hunton, Robert W., assignor.)						
Pettee Machine Works. (See Mills, Charles, assignor.)						
Pettee Machine Works. (See Mills and Penney, assignors.)						
Pettee Machine Works. (See Penney, Loren W., assignor.)						
Pettee Machine Works. (See Threlfall, William V., assignor.)						
Petter, Adolph J. (See Martin and Petter.)						
Petter, Adolph J., Randsburg, Cal. Stamp and roller crusher and pulverizer	633,248	Sept. 19	1982	465	88	2124
Petterson, Anders P., assignor of one-half to M. Hoppe, Rockford, Ill. Hoisting-machine	634,586	Oct. 10	1149	273	89	246
Pettet, Elza, Farmer City, Ill. Carbon contact	628,115	July 4	301	71	88	60
Pettigrew, John. (See Hyde, Harold, assignor.)						
Pettijohn, John W., and J. Glenn, Montesano, Wash. Sad-iron	633,659	Sept. 26	2756	641	88	2288
Pettingill Andrews Company. (See Stevens, Henry M., assignor.)						
Pettingill, Daniel H., and J. Sanders, Nameoki, Ill. Harvester	630,404	Aug. 8	1307	291, 292	88	992
Pettis, Walter R., New York, N. Y. Flush-switch	635,587	Oct. 24	3011	691	89	641
Pettit, Ezra G., Zanesville, Ohio. Apparatus for raising sunken vessels	630,104	Aug. 1	713	153, 154	88	864
Pettit, George, Jr., assignor of oue-half to J. D. Spromer, New York, N. Y. Fruit-seeding machine	619,693	Feb. 14	1637	375, 376	86	1147
Petz, John, assignor of one-half to J. Phillips, Detroit, Mich. Show-case	634,701	Oct. 10	1345	318	89	285
Peuss, Carl, Baltimore, Md. Spout and vent for oil-cans	626,034	May 30	3856	874	87	1526
Pevey, Charles K., Worcester, Mass. Nose-guard for eyeglasses	624,534	May 9	1088	245	87	933
Pew, Alfred, *et al.* (See Dings, Alvin, assignor.)						
Peyry, Jean B., New Orleans, La. Garment-fitter	626,795	June 13	1058	238, 239	87	1838
Peytan, Henry C., Macon, Mo. Carpet-stretcher	621,502	Mar. 21	1785	397	86	1871
Peyton, Robert L., Oakland, Cal. Display-stand	621,130	Mar. 14	1128	244, 245	86	1732
Pfaff, Rudolf H., *et al.* (See Wittich, Frederick A., assignor.)						
Pfaff, Valentine, San Francisco, Cal. Fender for cars, locomotives, &c	619,989	Feb. 21	2186	497, 498	86	1278
Pfahler, William Q., Prentiss, Ohio. Tube-expander	633,037	Sept. 12	1553	361	88	2027
Pfeffer, Frank, Chicago, Ill. Wheel	623,621	Apr. 25	2622	599	87	560
Pfeifer, John, assignor to Mast, Foos & Company, Springfield, Ohio. Change maker and indicator	619,786	Feb. 21	1830	418, 419	86	1211
Pfeifer, John, assignor to Mast, Foos & Company, Springfield, Ohio. Cash register and recorder	628,961	July 18	1899	441, 442	88	407
Pfeiffer, Hermann. (See Levinstein and Pfeiffer.)						
Pfeiffer, Jacob, Akron, Ohio. Nipple for nursing-bottles	624,859	May 9	1676	379	87	1049
Pfeiffer, Jacob, Akron, Ohio. Burial apparatus	636,172	Oct. 31	4161	954	89	882
Pfeiffer, Rudolph H., and W. F. Hahn, Pensacola, Fla. Combination domino box and marker	627,875	June 27	3089	676	87	2272
Pfeiffer, William F., Akron, Ohio. Lowering mechanism for caskets	630,070	Aug. 1	659	142	88	854
Pfenning, Carl A., Barmen, Germany. Fastening for gloves	622,164	Mar. 28	3029	685	86	2131
Pfister, Theophil, *et al.* (See Navarein, Amedée, assignor.) (Reissue.)						
Pfister, Theophil, Chicago, Ill. Lamp-stove	619,500	Feb. 14	1295	297	86	1083
Pfister, Theophil, Chicago, Ill. Ornamenting glass	625,464	May 23	2745	625	87	1293
Pfister, Theophil, Chicago, Ill. Mosaic	627,307	June 20	2009	442	87	2044
Pfister, Theophil, Chicago, Ill. Ornamental cloisonné ware	639,862	Dec. 26	3095	711	89	2528
Pfister, Theophil, London, England. Boiling, cooking, and heating stove	619,609	Feb. 14	1471	337	86	1115
Pfister, Theophil, London, England. Oil cooking stove or oven	619,610	Feb. 14	1473	337	86	1116
Pfister, Theophil, Chicago, Ill., and E. Barthels, London, England. Ornamental panel for windows, &c	625,463	May 23	2743	624	87	1293
Pflaum, Richard, Berlin, Germany. Fire-lighter	617,424	Jan. 10	1093	249	86	232
Pfleghar, Frank P., New Haven, Conn. Polishing-wheel	621,131	Mar. 14	1130	245	86	1732
Pfleiderer, Paul. (See Harris, William W., assignor.)						
Pflueger, Ernest F., Akron, Ohio. Soldering-machine	631,125	Aug. 15	2610	590	88	1269
Pflueger, Ernest F., Akron, Ohio. Bait-swivel	632,200	Aug. 29	4589	1034	88	1686
Pflueger, Ernest F., Akron, Ohio. Fish-decoy	636,694	Nov. 7	840	186	89	1093
Pfoff, William, Huntingburg, Ind. Threshing-machine	636,355	Nov. 7	213	47	89	964
Pfouts, Leroy S., assignor to Canton Foundry and Machine Company, Canton, Ohio. Hot-air furnace	627,525	June 27	2443	537, 538	87	2146
Phalempin, Alphonse M., Paris, France. Candle-holder	625,465	May 23	2746	625	87	1294
Phalempin, Edouard A. (See Dupeyron aud Phalempin.)						
Phares, Edward J. (See Isgrig and Phares.)						
Pharis, Charles S., Syracuse, N. Y. Dumping-wagon	636,549	Nov. 7	560	124	89	1034
Pharmaceutisches Institut Ludwig Wilhelm Gans. (See Blum, Ferdinand, assignor.)						
Phelan, Bryan, London, England. Bicycle-support	628,548	July 11	1129	263	88	238
Phelan, John J., Worcester, Mass. Clean-out for sewer pipes or traps	637,822	Nov. 28	3417	714	89	1700
Phelps, Augustus, Newark, N. J. Button for badges	626,035	May 30	3857	874	87	1526
Phelps, Byron, Seattle, Wash. Copying-press	627,081	June 13	1602	350	87	1942
Phelps, Byron, Seattle, Wash. Bench-stop	627,082	June 13	1603	350	87	1943
Phelps, Byron, Seattle, Wash., assignor of one-half to T. Nelson, Chicago, Ill. Lock	626,338	June 6	221	53	87	1655
Phelps, Byron, Seattle, Wash., assignor of one-half to T. Nelson, Chicago, Ill. Lock	626,339	June 6	224	54	87	1655
Phelps, Byron, Seattle, Wash., assignor of one-half to T. Nelson, Chicago, Ill. Lock	626,340	June 6	226	54	87	1656
Phelps, Byron, Seattle, Wash., assignor of one-half to T. Nelson, Chicago, Ill. Lock	626,341	June 6	231	54, 55	87	1657
Phelps, Byron, Seattle, Wash., assignor of one-half to T. Nelson, Chicago, Ill. Lock	626,342	June 6	235	55	87	1659
Phelps, Byron, Seattle, Wash., assignor of one-half to T. Nelson, Chicago, Ill. Lock	626,343	June 6	236	55, 56	87	1659
Phelps, Byron, Seattle, Wash., assignor of one-half to T. Nelson, Chicago, Ill. Lock	626,344	June 6	240	56	87	1660
Phelps, Byron, Seattle, Wash., assignor of one-half to T. Nelson, Chicago, Ill. Lock	631,431	Aug. 22	3166	719	88	1397
Phelps, Byron, Seattle, Wash., assignor of one-half to T. Nelson, Chicago, Ill. Lock	631,432	Aug. 22	3166	719	88	1397
Phelps, Byron, Seattle, Wash., assignor of oue-half to T. Nelson, Chicago, Ill. Lock	631,433	Aug. 22	3167	719	88	1398
Phelps, Byron, Seattle, Wash., assignor of one-half to T. Nelson, Chicago, Ill. Lock	631,434	Aug. 22	3170	719, 720	88	1398
Phelps, Charles, Salem, Mass. Alarm-lock for bicycles	618,726	Jan. 31	3543	791	86	752
Phelps, Charles E., Jr. (See Edwards and Phelps.)						
Phelps, Charles S., Charleston, S. C. Copying-press	617,042	Jan. 3	363	88	86	69
Phelps, Daniel. (See Rittenhouse and Phelps.)						
Phelps, Edwin and W. J., Baltimore, Md. Can-soldering machine	629,918	Aug. 1	335	74	88	788
Phelps, Edwin S., Elizabeth, N. J. Registering time-lock	623,734	Apr. 25	2801	641	87	593
Phelps, Idelle, Denver, Colo. Eyeglass-holder	636,416	Nov. 7	313	71	89	984
Phelps, James C., Springfield, Mass. Automatic gas-burner	631,811	Aug. 29	3874	864	88	1546
Phelps, Lucius J., New Brunswick, N. J. Motor-vehicle	629,521	July 25	2940	684	88	628
Phelps, Wallace H., Mount Vernon, Ohio. Voting-machine	628,032	July 4	128	26, 27	88	27
Phelps, Walter J. (See Phelps, Edwin and W. J.)						
Phelps, William J., Elmwood, Ill. Electric incandescent lamp	635,058	Oct. 17	1982	468, 469	89	427

Alphabetical list of patentees—Continued.

Name, residence, and invention.	No.	Date.	Monthly volume. Spec.	Monthly volume. Drg.	Official Gazette. Vol.	Official Gazette. Page.
Phelps, William J., Elmwood, Ill. Electric incandescent lamp	635,447	Oct. 24	2773	634	89	596
Phenix, Josiah G. and M. S., Hoodsport, Wash. Culinary steamer	637,662	Nov. 21	3118	647	89	1620
Phenix, Martha S. (See Phenix, Josiah G. and M. S.)						
Phenix Tube Company. (See Skogse, Gustave, assignor.)						
Phifer, Simon B., California, Mo. Detachable hinge	617,043	Jan. 3	365	88	86	70
Phifer, Washington I., California, Mo. Rotary steam-engine	619,434	Feb. 14	1188	268, 269	86	1060
Philadelphia Hardware and Malleable Iron Works. (See Buehler, Rudolph R., assignor.)						
Philadelphia Textile Machinery Company. (See Proctor, Josiah K., assignor.)						
Philbrick, Warren W., Seattle, Wash. Matcher-head	629,813	Aug. 1	93	23	88	738
Philbrick, Warren W., Seattle, Wash. Matcher-head	629,814	Aug. 1	97	24	88	739
Philbrick, Warren W., Seattle, Wash. Matcher-head	633,153	Sept. 19	1797	423, 424	88	2086
Philbrick, Warren W., Seattle, Wash. Matcher-head	633,154	Sept. 19	1802	424	88	2087
Philip Cary Manufacturing Company. (See Crabbs and Pendery, assignors.)						
Philip, Frank, Stockport, N. Y. Road-scraper	621,371	Mar. 21	1552	344	86	1827
Philip Meyer Company. (See Klumb, Paul, assignor.)						
Philipp, Jacob, Vienna, Austria-Hungary. Album with detachable pictorial post-cards	632,788	Sept. 12	1107	256	88	1942
Philippart, Gustave, Paris, France. Secondary battery	620,172	Feb. 28	2512	571	86	1355
Philippsohn & Leschziner. (See Tharandt, Wilhelm, assignor.)						
Philips, Alfred. (See Ernst and Philips.)						
Philips, Alfred, assignor to Farbwerke, vormals Meister, Lucius & Brüning, Höchst-on-the-Main, Germany. Dyeing	632,503	Sept. 5	529		88	1812
Philips, Alfred, and M. von Gallois, assignors to Farbwerke, vormals Meister, Lucius & Brüning, Höchst-on-the-Main, Germany. Dyeing on fiber	625,198	May 16	2261		87	1177
Philips, William C. (See Abbey and Philips.)						
Philipson, William, Astley Bridge, England. Stripping mechanism for carding-engine flats	624,861	May 9	1678	380	87	1049
Phillippi, Amos. (See Pack and Phillippi.)						
Phillipps, Louis, Columbus, Nebr. Drag-saw	622,709	Apr. 11	957	221	87	201
Phillippy, George F. (See Penwell, Landon, assignor.)						
Phillips, Alexander. (See Fyfe and Phillips.)						
Phillips, Alfred G., London, England. Cleaning and polishing apparatus for forks, spoons, &c.	635,870	Oct. 31	3559	819	89	761
Phillips, Anton P., Sioux Falls, S. D. Mechanism for shocking grain	620,249	Feb. 28	2655	605, 606, 607	86	1381
Phillips, Benjamin. (See Winkley, Erastus E., assignor.)						
Phillips, Charles, Mannington, W. Va. Fishing-tool	621,132	Mar. 14	1131	245	86	1732
Phillips, Charles W., Alexander, Ark. Cartridge-shell cleaner	619,906	Feb. 21	2053	465	86	1253
Phillips, David E., Mahanoy City, Pa. Screening apparatus	627,706	June 27	2792	611	87	2214
Phillips, David E., Mahanoy City, Pa., assignor to Clinton Wire Cloth Company, Clinton, Mass. Screen	632,201	Aug. 29	4590	1034	88	1686
Phillips, Eben B., Swampscott, assignor of one-half to H. Fisher, Salem, Mass. Bottle	619,435	Feb. 14	1190	269	86	1060
Phillips, Elizabeth M., Glenbrook, Conn. Stopper for milk-bottles	625,197	May 16	2259	514	87	1177
Phillips, Henry, and W. Hunt, Ottumwa, Iowa. Car-loader	632,202	Aug. 29	4591	1034, 1035	88	1686
Phillips, Hiram C., and H. Hogan, Rockford, Ill.; said Hogan assignor to said Phillips. Car-door fastener	631,051	Aug. 15	2475	561	88	1244
Phillips, Horace B., Suffolk, Va. Log-loading apparatus	630,105	Aug. 1	715	154	88	865
Phillips, Ira. (See Rippon and Phillips.)						
Phillips, James E., Dayton, Mich. Plow	633,482	Sept. 19	2410	567, 568	88	2207
Phillips, James T. (See Davis, Henry S., assignor.)						
Phillips, James T., Grand Rapids, Mich. Music-cabinet	632,925	Sept. 12	1365	315	88	1990
Phillips, John. (See Petz, John, assignor.)						
Phillips, John F., Peoria, Ill., assignor of one-half to H. M. McLane, Kansas City, Mo. Separating germ from corn	637,029	Nov. 14	1544	332	89	1259
Phillips, John M., Pittsburg, Pa. Car-wheel	636,173	Oct. 31	4162	955	89	882
Phillips, John M. and R. F., Carrick, Pa. Car-wheel	624,970	May 16	1875	421	87	1105
Phillips, John W. (See Zimmerman, John H., assignor.)						
Phillips, Joseph N., Norwich, Conn. Bushing for harness-loops	635,022	Oct. 17	1906	454	89	412
Phillips Manufacturing Company. (See Durand, Beck, and McLellan, assignors.)						
Phillips, Maurice W. (See Traylor, Robert W., assignor.)						
Phillips, Ralph M., Jamestown, N. Y. Knockdown barrel	624,376	May 2	781	175	87	850
Phillips, Robert E., assignor of one-fourth to V. B. Zollars, Portland, Oreg. Curtain-fixture	624,860	May 9	1677	380	87	1049
Phillips, Robert F. (See Phillips, John M. and R. F.)						
Phillips, Samuel L., Washington, D. C. Preventing accidents on drawbridges to electric cars	631,491	Aug. 22	3277	746	88	1419
Phillips, Samuel L., and G. G. Tilden, Washington, D. C. Means for ascertaining the potential at any point upon systems of electrical distribution	625,597	May 23	2974	675	87	1340
Phillips, Samuel L., and G. G. Tilden, Washington, D. C. Coin-controlled electric meter	626,298	June 6	139	35, 36	87	1640
Phillips, Thomas, assignor of one-half to G. W. Sillcox, Brussels, Belgium. Prepayment gas-meter	618,802	Jan. 31	3676	824	86	779
Phillips, Thomas H., St. Davids, Pa. Impact-tool	622,165	Mar. 28	3030	686	86	2131
Phillips, William M., Ferris, Tex. Quilting-frame	626,928	June 13	1342	295	87	1892
Phillips, William O., Calhoun, Ky. Wheeled harrow	638,137	Nov. 28	4035	850	89	1821
Phillips, William P., Boston, Mass. Water-gage for steam-boilers	619,215	Feb. 7	789	172	86	967
Phillips, William P., Boston, Mass. Gage-cock	619,216	Feb. 7	791	172	86	967
Phillips, William P., Boston, Mass. Lubricating device	629,091	July 18	2141	498	88	455
Phillips, William P., Boston, Mass. Lubricator	629,465	July 25	2808	652	88	603
Phillips, William R., Trenton, N. J. Non-refillable bottle	634,184	Oct. 3	370	95	89	76
Phillips, Winfield S., *et al.* (See Shutts, Hugh B., assignor.)						
Philp, Frederick D., Buffalo, N. Y. Piston-rod packing	638,138	Nov. 28	4037	850	89	1822
Philpott, William A., Jr., Niagara Falls, N.Y., and T. A. Briggs, Arlington, Mass., assignors to Standard Machinery Company, Mystic River, Conn. Paper-feeding machine	626,631	June 6	730	168, 169	87	1756
Phinney, Etta W., assignor, by mesne assignments, to L. J. Drake, Boston, Mass. Device for preventing refilling of bottles	620,173	Feb. 28	2513	572	86	1355
Phipps, Edward Glenville, Ohio. Handle-bar for bicycles	639,765	Dec. 26	2925	674	89	2495
Phipps, Henry W. (See Moser and Phipps.)						
Phoenix Cap Company. (See Weissenthanner, Alfred L., assignor.)						
Phoenix Coat Pad Company. (See Goldman, Gustav, assignor.)						
Phoenix Manufacturing Company. (See Clark, Joseph O., assignor.)						
Pianophone Company. (See Davis, George H., assignor.)						
Piatt, Abraham S., West Liberty, and E. E. Wolf, Springfield, Ohio.; said Wolf assignor to said Piatt. Rotary steam-engine	633,730	Sept. 26	2886	671, 672	88	2314

Alphabetical list of patentees—Continued.

Name, residence, and invention.	No.	Date.	Monthly volume.		Official Gazette.	
			Spec.	Drg.	Vol.	Page.
Piatt, Walter A., Pineridge, S. D. Mail-pouch closure	629,599	July 25	3071	716	88	653
Piburn, John H., Missouri City, Mo. Automatic lubricator	630,405	Aug. 8	1310	292	88	992
Pickard, Thomas D. (See Walsh, Richard, assignor.)						
Pickel, John W., and R. Snyder, Crystal City, Mo. Rotary engine	625,799	May 30	3352	762, 763	87	1432
Pickel, John W., and R. Snyder, Crystal City, Mo. Rotary engine	625,800	May 30	3357	763	87	1432
Picken, Archibald, Roanoke, Va. Machine for granulating tobacco	634,476	Oct. 10	952	226, 227	89	208
Pickens, William D., Bull Run, Oreg. Trowel-handle	630,924	Aug. 15	2232	509	88	1196
Pickersgill, John, assignor of one-half to S. J. Gish, Central City, Ky. Automatic wagon-brake	636,550	Nov. 7	561	125	89	1034
Pickett, Ambris C., assignor to S. L. Pickett, St. Louis, Mo. Emery-wheel attachment for sewing-machines	633,365	Sept. 19	2214	520	88	2169
Pickett, Arthur B., and F. L. Branham, Union City, Ind. Combined bung and spigot	625,598	May 23	2975	676	87	1340
Pickett, Charles W., Watertown, N. Y. Screen	622,070	Mar. 28	2841	640	86	2092
Pickett, George W., assignor to Hercules Electric Rock Drill Company, Denver, Colo.) Electric rock-drill	632,658	Sept. 5	821	190, 191, 192	88	1871
Pickett, John S., *et al.* (See Proctor, Richard B., assignor.)						
Pickett, Samuel L. (See Pickett, Ambris C., assignor.)						
Pickett, Sterling P., Woodlawn, Mo. Rotary corn-popper or coffee-roaster	616,964	Jan. 3	186	42	86	37
Pickles, Charles K. (See Burns and Pickles.)						
Pickles, Charles K., assignor to J. V. Pickles, St. Louis, Mo. Pneumatic hammer	630,818	Aug. 8	2041	461	88	1135
Pickles, Charles K., assignor to W. L. Flower, St. Louis, Mo. Pneumatic hammer	631,435	Aug. 22	3172	720	88	1399
Pickles, James D., Darwen, England. Machine for drying paper, &c.	636,174	Oct. 31	4163	955	89	882
Pickles, Josephine V. (See Pickles, Charles K., assignor.)						
Piel, Gottfried. (See Meyer, Johannes, assignor.)						
Pielsticker, Charles M., London, England, assignor to Steel Abrasives Company, of New York. Manufacture of substitute for emery-wheels	621,702	Mar. 21	2149	------	86	1944
Piening, Jacob L., Elmshorn, Germany. Rotary power-engine	632,969	Sept. 12	1433	331	88	2004
Pieper, Alphonse F. (See Pieper, Oscar H. and A. F.)						
Pieper, Henri, Fils, Liege, Belgium. Electrode for electric accumulators	623,104	Apr. 11	1675	387	87	339
Pieper, Oscar H. and A. F., Rochester, N. Y. Electric motor	619,217	Feb. 7	792	172, 173	86	967
Pieper, Oscar H. and A. F., Rochester, N. Y. Electrical controlling apparatus. (Reissue)	11,718	Feb. 21	2369	537	86	1313
Pieper, Oscar H. and A. F., Rochester, N. Y. Electric-motor regulation	623,622	Apr. 25	2624	599	87	560
Pier, Caroline B., *et al.* (See Timmis, William, assignor.)						
Pierce, Charles E., Cambridge, Mass. Handle attachment for jars or bottles	622,862	Apr. 11	1221	284	87	250
Pierce, Clarence A., Woburn, assignor to C. P. Jaynes, Boston, Mass. Fastening device or clasp	635,077	Oct. 17	2029	479	89	438
Pierce-Crouch Engine Company. (See Crouch, Walker L., assignor.)						
Pierce, David, assignor of one-half to J. W. Beardslee, Janesville, Wis. Kitchen-cabinet	633,901	Sept. 26	3173	737	88	2371
Pierce, Edgar R. M. (See Graham and Pierce.)						
Pierce, Edgar R. M., Sacramento, Cal., assignor to Armour & Co., Chicago, Ill. Ventilator for refrigerator-cars	620,174	Feb. 28	2515	572	86	1356
Pierce, George W. and J. G., Detroit, Mich. Delivery-package for ice-cream	621,279	Mar. 14	1385	306	86	1783
Pierce, Harry H., assignor of one-half to A. C. Brantingham, Toledo, Ohio. Cement	622,387	Apr. 4	319	------	87	60
Pierce, Harry H., assignor of one-half to A. C. Brantingham, Toledo, Ohio. Treatment of lime	622,388	Apr. 4	319	------	87	61
Pierce, Harry M., and W. E. Poinsett, Wilmington, Del. Staking-machine	623,423	Apr. 18	2265	519	87	473
Pierce, James G. (See Pierce, George W. and J. G.)						
Pierce, Smith D., New York, N. Y. Sample of paint	617,119	Jan. 3	499	119	86	98
Pierce, William J., London, England. Spring-frame for bicycles	621,942	Mar. 28	2616	590	86	2047
Pierce, William S., assignor of one-half to C. H. Turley, Franklin, Pa. Lubricator	628,675	July 11	1387	324	88	288
Pierce, William W., Buffalo, N. Y. Hook and eye	628,634	July 11	1318	307	88	274
Pieri, Pompeo, Paris, France. Paddle-wheel	623,424	Apr. 18	2267	519	87	474
Pierman, Alexander N., Bridgeport, Conn. Alarm	620,958	Mar. 14	785	172	86	1667
Pierquin, Henri R. J. (See Mercadier and Pierquin.)						
Pierson, Swan P., Easton, Mass. Driving mechanism	634,833	Oct. 10	1573	370	89	329
Pietschmann, Emil, assignor to Wm. H. Horstmann Company, Philadelphia, Pa. Skirt-protector	633,483	Sept. 19	2412	568	88	2207
Pifer, John F., Manor Station, assignor of one-half to A. A. Gilchrist, Adamsburg, Pa.) Gate	617,494	Jan. 10	1202	273, 274	86	254
Pigg, Reuben R., McCoy, Oreg. Singletree	621,503	Mar. 21	1786	398	86	1871
Pihl, Carl J., assignor of one-half to A. M. Sutherland, New York, N. Y. Back-pedaling) brake	623,928	Apr. 25	3198	736, 737	87	670
Pihl, Carl J., assignor of one-half to A. M. Sutherland, New York, N. Y. Bicycle-brake	638,271	Dec. 5	128	29, 30	89	1890
Pihlfeldt, Olaf, Birmingham, England. Cycle-chain adjustment	625,199	May 16	2262	515	87	1177
Pike, Frederick N., assignor of one-third to E. N. Dickerson, New York, N. Y. Electric gas-lighter	638,753	Dec. 12	1076	240	89	2097
Pike, Frederick N., assignor of one-third to E. N. Dickerson, New York, N. Y. Electric gas-lighter	638,754	Dec. 12	1077	240	89	2097
Pike, Richard, Montreal, Canada. Parlor game	635,059	Oct. 17	1984	469	89	428
Pilcher, John A., Roanoke, Va., assignor to Missouri Railway Equipment Company, St. Louis, Mo. Draft-rigging	616,965	Jan. 3	187	43	86	37
Pilkington, Francis A., Manchester, England. Roller-bearing	628,033	July 4	133	28	88	28
Pillar, Samuel H., Dublin, Ireland. Spraying apparatus	629,269	July 18	2440	565	88	509
Pilling, James, Parbold, England. Preparing-machine for fibrous materials	632,424	Sept. 5	382	87	88	1782
Pillinger, Gilbert C., London, England. Electric meter	629,870	Aug. 1	218	49	88	763
Pillion, Louis. (See Chesnay and Pillion.)						
Pillorget, Joseph, San Francisco, Cal. Target	638,886	Dec. 12	1300	296	89	2140
Pillsbury, Edwin S., and F. Schwedtmann, St. Louis, Mo. Motor	620,609	Mar. 7	105	20, 21	86	1523
Pillsbury, Samuel H., *et al.* (See Ham, Henry H., assignor.)						
Pinard, Theophile, Clackamas county, Oreg. Vehicle-wheel	625,200	May 16	2263	515	87	1177
Pinault, Zephirin R., Lowell, Mass. Bracket-arm	620,175	Feb. 28	2516	572	86	1356
Pinchin, Edwin S., London, England. Paint drum, keg, tin, &c.	617,406	Jan. 10	1058	241	86	225
Pinckney, Willis T., Ludington, Mich. Attachment for barbers' or surgical chairs	638,645	Dec. 5	861	187	89	2032
Pindstofte, Anders A., Copenhagen, Denmark. Corking machine	629,047	July 18	2050	478	88	437
Pindstofte, Anders A., Copenhagen, Denmark. Bottle-stoppering machine	637,408	Nov. 21	2294	494	89	1420
Pinkerman, John P. (See Ritchel, Charles F., assignor.)						
Pinkerton, James M. (See Mumford and Pinkerton.)						
Pinkham, Charles S., Boston, assignor of one-half to E. H. Brock, Quincy, Mass. Incandescent gas-burner	617,044	Jan. 3	366	88	86	70
Pinkham, Ralph H., Wakefield, Mass. Testing device	623,335	Apr. 18	2110	484	87	441

Alphabetical list of patentees—Continued.

Name, residence, and invention.	No.	Date.	Monthly volume. Spec.	Monthly volume. Dr'g.	Official Gazette. Vol.	Official Gazette. Page.
Pinney, Henry B., Oakland, Cal. Confectionery-machine	634,185	Oct. 3	371	95	89	76
Pinnock, Arthur H., Kingston, Jamaica. Chair	631,176	Aug. 15	2696	610	88	1286
Pinson, Benjamin F., assignor of one-half to T. J. Hughes, Blackwell, Okla. Ter. Veterinary dental forceps	636,285	Nov. 7	108	24	89	944
Piotrowski, Rudolf, San Francisco, Cal. Faucet bushing and stopper	620,798	Mar. 7	482	101	86	1596
Piper, Edward S., Toronto, Canada. Cupola tail-lamp	616,966	Jan. 3	189	44	86	37
Piper, Harry L., and W. H. Fox, Toronto, Canada. Hospital-bed	638,755	Dec. 12	1078	241	89	2097
Piper, Joseph W. (See Goodfellow, John H., assignor.)						
Piper, Thomas E., Blairsville, Pa., assignor of one-half to L. Winsheimer, Tincup, Colo. Thill-coupling	635,183	Oct. 17	2230	519	89	475
Piper, William O. S. (See Reed and Piper.)						
Pipkin, Johu F., Elbridge, Tenn. Corn-planter	638,850	Dec. 12	1234	278	89	2126
Pira, Oscar F., Oakland, Cal. Cup-polishing apparatus	620,250	Feb. 28	2662	607	86	1383
Piron, Victor. (See Robinson and Piron.)						
Pirsch, Nicholas. (See Pirsch, Peter, assignor.)						
Pirsch, Peter, assignor of one-fourth to N. Pirsch, Kenosha, Wis. Extension-ladder	621,427	Mar. 21	1635	363	86	1843
Pirtle, Charles H. (See Rhodes, Julius D., assignor.)						
Piscopo, Leopold B. (See Bacci and Piscopo.)						
Pisko, Emanuel, New York, N. Y. Cigar-bunch-making machine	630,520	Aug. 8	1528	342	88	1033
Pistor, Carl. (See Lang, Pistor, and Otto.)						
Pitkin, Egbert A. (See Jennings, Linson D., assignor.)						
Pitkin, Frank H., assignor of one-half to J. Thompson, Chicago, Ill. Machine for making expanded metal	619,340	Feb. 14	1011	228	86	1027
Pitkin, Julian H., Chicago, Ill. Lens for vehicle-headlights	631,996	Aug. 29	4191	943	88	1607
Pitkin, Julian H., Ravenswood, assignor to Deering Harvester Company, Chicago, Ill. Sheaf-carrier	637,215	Nov. 14	1918	410	89	1328
Pitman, James I. (See Crutchfield, Charles P., assignor.)						
Pitney, Albert L., Butler, Pa., assignor to Youngstown Range and Stove Company, Youngstown, Ohio. Burner for gas-stoves	631,436	Aug. 22	3173	720	88	1399
Pitt, William, Independence, assignor to B. C. Smith, Kansas City, Mo., J. H. Merchant and M. H. Redfield, Omaha, Nebr. Self-heating sad-iron	636,059	Oct. 31	3927	901	89	835
Pitt, William, Independence, assignor to B. C. Smith, Kansas City, Mo., J. H. Merchant and M. H. Redfield, Omaha, Nebr. Vapor-burner for self-heating sad-irons	636,060	Oct. 31	3930	901	89	835
Pitt, William J., Weymouth, England. Apparatus for turning over leaves of music	634,995	Oct. 17	1868	443	89	405
Pitt, William P., Independence, Mo. Rotary pump	621,280	Mar. 14	1386	307	86	1783
Pitt, William R., New Rochelle, N. Y. Gate	622,016	Mar. 28	2756	622	86	2076
Pittman, Moses S., Independence, Mo. Railway-switch	639,284	Dec. 19	2009	463	89	2294
Pittman, William H. H., Stillwater, Okla. Ter. Trussed suspension-bridge	634,026	Oct. 3	77	21	89	20
Pitton, Philip, Cincinnati, Ohio. Bicycle-tire	636,061	Oct. 31	3932	901	89	835
Pitts. Daniel H. (See Smith, Maine, and Pitts.)						
Pittsburg Gage and Supply Company. (See Chappell, Frank M., assignor.)						
Pittsburg Plate Glass Company (See Marsh, George A., assignor.)						
Piver, John W., Pinia, Ga. Tongue-and-grooved flooring, &c	624,862	May 9	1680	381	87	1049
Pivetz, Alois, New York, N. Y., assignor to Textile Machinery Manufacturing Company, of New Jersey. Loom	619,611	Feb. 14	1474	337, 338	86	1116
Pizagno, James G., and G. A. Bisler, Philadelphia, Pa. Case or holder for records of graphophones, &c	628,163	July 4	385	91	88	78
Place, William B., Kings Mills, assignor to Peters Cartridge Company, Cincinnati, Ohio. Machine for making cartridge-shells	619,787	Feb. 21	1838	419, 420	86	1212
Place, William T. (See Bliss, Hiram, assignor.)						
Planes. Joseph, Neuilly, France. Coupling device for vehicles	624,678	May 9	1334	297	87	981
Plano Manufacturing Company. (See Breuscher, Christoph C., assignor.)						
Plano Manufacturing Company. (See Dennis, Samuel K., assignor.)						
Plano Manufacturing Company. (See Macphail, James, assignor.)						
Plant, Anthony, deceased, Worcester, Mass.; P. Laplante, administrator. Wrench-handle	637,484	Nov. 21	2419	525	89	1444
Plant, John W., St. Louis, Mo. Shirt-stud lock	624,679	May 9	1335	297	87	982
Planters Compress Company. (See Lowry, George A., assignor.)						
Plass, Isabella C. (See Plass, Reuben H., assignor.)						
Plass, Reuben H., assignor, by mesne assignments, to J. W. Melick, New York, N. Y. Bicycle driving mechanism	628,184	July 4	425	100, 101	88	86
Plass, Reuben H., assignor to I. C. Plass, New York, N. Y. Self-propelling vehicle	631,437	Aug. 22	3174	720, 721	88	1399
Plass, Reuben H., assignor to I. C. Plass, New York, N. Y. Self-propelling vehicle	631,438	Aug. 22	3175	721, 722	88	1400
Plass, Reuben H., assignor to I. C. Plass, New York, N. Y. Self-propelling vehicle	632,278	Sept. 5	140	31	88	1735
Plass, Reuben H., assignor to I. C. Plass, New York, N. Y. Self-propelling vehicle	634,067	Oct. 3	140	36, 37	89	32
Plater-Syberg, Henri, Paris, France. Extracting acetic acid from alkaline acetates	634,271	Oct. 3	569	140	89	114
Platner, Gustav, Witzenhausen, Germany. Depolarization substance for electric batteries	630,071	Aug. 1	661	------	88	854
Platt, Albert L., assignor to C. H. Van Lue, Clinton, Ill. Aerial top	634,996	Oct. 17	1869	444	89	405
Platt, Clayton E., trustee. (See Ducasble, Alfred, assignor.)						
Platt, Frank H., *et al.* (See Askins, Joseph, assignor.)						
Platt, John A., and F. C. dos Passos, Augusta, Ga. Razor stropping and honing apparatus	617,182	Jan. 3	611	143	86	120
Platt, Lewis A., Waterbury, Conn. Button	618,235	Jan. 24	2643	584	86	564
Platt, Lewis A., Waterbury, Conn. Button	631,379	Aug. 22	3064	694	88	1377
Platt, Lewis A., Waterbury, Conn. Button	637,485	Nov. 21	2420	525	89	1444
Platz, Rudolf, Leipsic, Germany. Composition of matter for molding purposes	629,600	July 25	3073	------	88	653
Player, John, Topeka, Kans. Compound locomotive	623,735	Apr. 25	2806	641, 642	87	594
Player, John, Topeka, Kans. Compound locomotive	623,736	Apr. 25	2808	642, 643	87	595
Player, John, Topeka, Kans. Truck-transom	632,425	Sept. 5	384	88	88	1782
Player, John, Topeka, Kans. Car-bolster	632,426	Sept. 5	386	88	88	1783
Player, John H., Coventry, and W. D. Player, Birmingham, England. Spoke-tightener	618,583	Jan. 31	3290	730	86	703
Player, William D. (See Player, John H. and W. D.)						
Plecher, Andrew, Richmond, Va. Hydraulic propeller for ships	617,969	Jan. 17	2112	473	86	451
Plecher, Andrew, Savannah, Ga. Electric-lighting apparatus	625,599	May 23	2976	676	87	1340
Plecher, William J., Peoria, Ill. Boiler-cleaner	631,967	Aug. 29	4138	931	88	1598
Plechner, Richard, *et al.* (See Brehm, Jean F., assignor.)						
Plein, Joseph F., Pattonville, Mo. Lowering device for coffins	633,902	Sept. 26	3174	737	88	2372
Plessing, Traugott A., Leipsic, Germany. Mechanical musical instrument	621,372	Mar. 21	1554	344, 345	86	1828
Pleukharp, James, assignor to M. M. Pleukharp, Columbus, Ohio. Hand-truck	620,668	Mar. 7	235	49	86	1548
Pleukharp, James, assignor to Pleukharp Manufacturing Company, Columbus, Ohio. Fastening for table or other tops	631,750	Aug. 22	3754	842	88	1512

Alphabetical list of patentees—Continued.

Name, residence, and invention.	No.	Date.	Monthly volume. Spec.	Monthly volume. Dr'g.	Official Gazette. Vol.	Official Gazette. Page.
Pleukharp Manufacturing Company. (See Pleukharp, James, assignor.)						
Pleukharp, Mary M. (See Pleukharp, James, assignor.)						
Pleus, Gustav A., *et al.* (See Bléha, William V., assignor.)						
Plews, William J. (See Badger and Plews.)						
Ploeger, Joseph F., Pittsburg, Pa. Iron fence	617,993	Jan. 17	2153	480	86	458
Plomondon, Frank N., Matlock, Wash. Rail-joint	639,183	Dec. 12	1805	418	89	2238
Ploof, George, *et al.* (See Brown, Edmond H., assignor.)						
Plowman, Richard B., *et al.* (See Hall, Major, assignor.)						
Plue, William D., Rainier, Oreg. Door	617,120	Jan. 3	500	119	86	98
Plumb, Henry G., New York, N. Y. Window provision-box	620,176	Feb. 28	2517	573	86	1356
Plummer, Ham & Richardson. (See Ham, Edwin W., assignor.)						
Plummer, Horace Q., Maplewood, assignor to American Manufacturing Company and H. T. Hearsey, Indianapolis, Ind. Bicycle-bell	632,427	Sept. 5	387	88	88	1783
Plummer, Horace Q., Danville, assignor to American Manufacturing Company and H. T. Hearsey, Indianapolis, Ind. Bicycle pedal-bell	632,471	Sept. 5	474	108	88	1801
Plummer, James H. (See Aylmer, Henry, assignor.)						
Plummer, Mark, Mineral Springs, assignor to G. D. Davis, Cassville, Mo. Slat-and-wire-fence machine	636,840	Nov. 14	1159	251	89	1183
Plummer, William S., Philadelphia, Pa. Corner connection for bed-frames	626,796	June 13	1061	239	87	1839
Pneumatic Cancelling Machine Company. (See Berry, Robert C., assignor.)						
Pneumatic Carriage Company. (See Gibbs, William E., assignor.)						
Pneumatic Crane Company. (See Halsey, William S., assignor.)						
Pneumatic Elevator and Weigher Company. (See Bradford, Chester, assignor.)						
Pneumatic Elevator and Weigher Company. (See Schuman, James B., assignor.)						
Pneumatic Elevator and Weigher Company. (See Sharpe, Joseph K., Jr., assignor.)						
Pneumatic Elevator and Weigher Company. (See Williamson, George W., assignor.)						
Pneumatic Power Company. (See Cummings, Charles, assignor.)						
Pneumatic Railway Signal Company. (See Dodgson, Frank L., assignor.)						
Poché, Joseph A., New Orleans, La. Insulation of electric wires. (Reissue)	11,759	July 11	1814	422	88	373
Poché, Joseph A., New Orleans, La. Electric insulator	637,282	Nov. 21	2038	437, 438	89	1367
Poché, Joseph A., New Orleans, La. Electric protector for buildings	637,409	Nov. 21	2295	494	89	1420
Pocock, Francis A., Philadelphia, Pa., assignor, by mesne assignments, to Electric Power Development Company. Motor-vehicle	623,383	Apr. 18	2191	503	87	457
Poe, Americus N., Calpella, Cal. Felly-shield	623,823	Apr. 25	3000	687	87	633
Poe, James C., Springfield, Mo. Nut-setting machine	634,027	Oct. 3	79	21	89	20
Poe, James M., Santa Monica, Cal. Brush	617,884	Jan. 17	1964	439	86	422
Poe, Nelson C. (See Wilkins and Poe.)						
Poeffel, Arthur, Vienna, Austria-Hungary. Incandescent petroleum-lamp	619,436	Feb. 14	1191	269	86	1060
Poehnert, Edward. (See Held and Poehnert.)						
Poffenberger, Henry B., Tiffin, Ohio. Wire-fence stay	622,259	Apr. 4	101	23	87	23
Pohl, August J., Alexandria, Va. Device for recording shrinkage in brick in process of burning	635,023	Oct. 17	1907	454	89	412
Pohlé, Edwin C., Denver, Colo. Driving-gear for bicycles	625,600	May 23	2977	676	87	1341
Pohlit, Carl, assignor to F. Krupp, Essen-on the-Ruhr, Germany. Safety-lock for breech-loading ordnance	617,906	Jan. 17	2015	449	86	431
Pohlit, Carl, assignor to F. Krupp, Essen-on-the-Ruhr, Germany. Horizontal breech-block for ordnance	617,907	Jan. 17	2017	450, 451	86	432
Pohlit, Carl, assignor to F. Krupp, Essen, Germany. Percussion lock for breech-loading guns	619,218	Feb. 7	795	173	86	968
Pohlit, Carl, assignor to F. Krupp, Essen, Germany. Percussion-lock for breech-loading guns	620,354	Feb. 28	2841	650	86	1417
Pohlit, Carl, assignor to F. Krupp, Essen, Germany. Gear for back sights of guns or ordnance	621,133	Mar. 14	1133	245, 246	86	1733
Pohlit, Carl, assignor to F. Krupp, Essen, Germany. Breech-closing mechanism for guns	621,581	Mar. 21	1925	430	86	1899
Pohlit, Carl, assignor to F. Krupp, Essen, Germany. Safety device for breech mechanism of ordnance	622,974	Apr. 11	1419	327	87	290
Pohlit, Carl, assignor to F. Krupp, Essen, Germany. Firing-lock for breech-loading guns	623,824	Apr. 25	3000	687, 688	87	633
Pohlit, Carl, assignor to F. Krupp, Essen, Germany. Safety locking device for guns	624,680	May 9	1336	298	87	982
Pohlit, Carl, assignor to F. Krupp, Essen, Germany. Breech-closing mechanism of the wedge system for ordnance	627,308	June 20	2010	442	87	2044
Pohlit, Carl, assignor to F. Krupp, Essen, Germany. Horizontal-wedge breech-closing mechanism for guns	629,170	July 18	2280	529, 530	88	480
Poillon, Edouard J., Amiens, France. Fire-bars	621,373	Mar. 21	1555	345	86	1828
Poindexter, Robert E. (See Hicks, Edgar J., assignor.)						
Poindexter, Robert E., Indianapolis, Ind. Knife-sharpener	620,050	Feb. 21	2306	523	86	1300
Poinsett, William E. (See Pierce and Poinsett.)						
Pointon, Charles E. and J. E., Wellington, assignors to Lewis & Pointons' Panification, Limited, London, England. Machine for dividing dough or like plastic material	629,815	Aug. 1	100	24, 25	88	740
Pointon, John E. (See Pointon, Charles E. and J. E.)						
Poland, Frank W., East Liverpool, Ohio. Incandescent-mantle support	637,942	Nov. 28	3643	764	89	1746
Pole, John F. (See Clift, Edmund E., assignor.)						
Polican Henry, assignor of one-half to J. Eppler, Philadelphia, Pa. Jacquard or dobby card	629,303	July 18	2501	583	88	521
Polk, Caleb C., assignor to Polk's Italian Harp Piano Company, Valparaiso, Ind. Piano attachment	637,663	Nov. 21	3121	647	89	1621
Polka, Jacob, Smith Centre, Kans. Buckle	617,183	Jan. 3	613	143	86	120
Polka, Jacob, Smith Centre, Kans. Harness-buckle	621,617	Mar. 21	1985	443	86	1910
Polk's Italian Harp Piano Company. (See Polk, Caleb C., assignor.)						
Pollack, Willma. (See Bell, Frank M., assignor.)						
Pollak, Armin, and P. F Teiser, Richmond, Va. Cigar	621,975	Mar. 28	2698	608	86	2063
Pollak, Charles, Frankfort-on-the-Main, Germany. Forming accumulators	628,676	July 11	1388	------	88	288
Pollak, Henry D. (See Huggins and Pollak.)						
Polley, Charles A., Evanston, Wyo. Ash-pan for hot-blast stoves	631,812	Aug. 29	3876	864	88	1546
Polleys, Abner D., Melrose, Wis. Sleigh-brake	628,844	July 11	1680	392	88	348
Polliard, George R., Leatherwood, Pa. Wrench	627,269	June 20	1941	427	87	2030
Pollitz, James, and E. H. Cox, New York, N. Y. Means for launching life-boats from vessels	634,028	Oct. 3	82	22	89	21
Pollitz, Kaufman & Co (See Lefort, Robert, assignor.)						
Pollman, Henry C., St. Louis, Mo. Sprinkler-head	622,071	Mar. 28	2844	641	86	2093
Pollow, Henry R., *et al.* (See Webb, George S., assignor.)						
Polsley, Edgar A., Letart, W. Va. Basket	634,763	Oct. 10	1458	343	89	306
Pomeroy, Silas H. (See Voigtmann and Pomeroy.)						
Pompili, Riccardo. (See Garuti and Pompili.)						
Pond, Gilbert A., Chicago, Ill. Necktie-holder	637,823	Nov. 28	3418	714	89	1701

Alphabetical list of patentees—Continued.

Name, residence, and invention.	No.	Date.	Monthly volume.		Official Gazette.	
			Spec.	Dr'g.	Vol.	Page.
Pond, Goldsbury H., Ashburnham, Mass. Buoyant propeller	633,903	Sept 26	3175	737, 738	88	2372
Pond, Goldsbury H., Ashburnham, Mass. Process of and apparatus for dissociating substances by electrolysis	637,410	Nov. 21	2297	494	89	1420
Pond, Samuel N., Chicago, Ill. Internal-combustion motor for bicycles, &c	633,484	Sept. 19	2413	568, 569	88	2208
Pondorf, Paul, Goessnitz, Germany. Apparatus for arranging projectiles, &c	635,588	Oct. 24	3013	691, 692	89	*641
Pondorf, Paul, Goessnitz, Germany. Machine for sorting bodies according to size	637,411	Nov. 21	2299	495	89	1421
Pondorf, Paul, Goessnitz, Germany. Apparatus for arranging projectiles, cartridges, or like bodies	639,431	Dec. 19	2309	532	89	2352
Pondorf, Paul, Goessnitz, Germany. Apparatus for testing cartridges	639,432	Dec. 19	2311	533	89	2352
Ponsolle, Noël, Paris, France. Apparatus for copying documents, drawings, &c	622,389	Apr. 4	320	74	87	61
Ponton, Archibald C., Bedford, England. Fire-brick and making same	627,443	June 20	2296	------	87	2100
Ponton, Fortunat, Joliette, and P. Grenier, St. Jean Baptiste de Rouville, Canada. Drain-ditching plow	632,060	Aug. 29	4318	971	88	1632
Pool, Alma A., Waukesha, Wis. Skirt and waist holder	631,380	Aug. 22	3065	694	88	1377
Pool, Benjamin L., assignor of one-half to C. L. Stanford, Ben Wheeler, Tex. Plow attachment	635,388	Oct. 24	2628	606	89	568
Pool, Elmer C., assignor of one-half to A. E. Baer, New Castle, Pa. Automatic weighing-scale	636,389	Nov. 7	276	61, 62	89	976
Pool, James F., Rochester, N. Y. Pipe-joint	619,437	Feb. 14	1193	269	86	1061
Pool, James P., New York, N. Y. Ballast device	633,904	Sept. 26	3177	738	88	2372
Poole, Arthur F., Washington, Pa. Electric clock	631,511	Aug. 22	3317	753, 754	88	1427
Poole, David. (See Bowe, William H., assignor.)						
Poole, George, Thompsonville, Conn. Pile-fabric loom	635,897	Oct. 31	3621	834	89	774
Poole, George, Thompsonville, Conn. Stop-motion mechanism for looms	637,412	Nov. 21	2301	495	89	1421
Poole, George, Thompsonville, Conn. Stop-motion mechanism for looms	637,413	Nov. 21	2302	496	89	1421
Poole, George, Lowell, Mass. Loom	637,486	Nov. 21	2422	525, 526	89	1444
Poole, O. E., *et al.* (See Hall, Chester P., assignor.)						
Poole, Page G., Everett, Mass. Steam-engine indicator	633,532	Sept. 19	2491	586	88	2222
Poole, Staley D., assignor to Deere & Company, Moline, Ill. Plow-clevis	629,113	July 18	2181	506	88	463
Poole, Staley D., assignor to Deere & Company, Moline, Ill. Straddle-row cultivator	638,671	Dec. 5	900	198, 199	89	2041
Poole, Thomas J., assignor to Autono Company, Boston, Mass. Automatic playing attachment for pianos	622,260	Apr. 4	102	23, 24, 25	87	23
Pooler, Fredrick A., assignor of one-half to M. Baker, Los Angeles, Cal. Conduit-threader	622,531	Apr. 4	632	148	87	120
Pooler, George E., Mount Vernon, Iowa. Harness attachment	628,549	July 11	1131	264	88	238
Pooler, Hiram A., New York, N. Y. Filter	626,244	June 6	48	11	87	1624
Pooley, D. G. (See Pooley, Edward F., assignor.)						
Pooley, Edward F., assignor to D. G. Pooley, Philadelphia, Pa. Desk-lid support	629,816	Aug. 1	103	25	88	740
Pooley, Edward F., and F. D. Pooley, deceased; E. F. Pooley and H. S. Wadsworth, executors, Philadelphia, Pa. Desk-lid support	630,739	Aug. 8	1903	429	88	1106
Pooley, Frank D (See Pooley, Edward F. and F. D.)						
Poore, John B., Scranton, Pa. Pump	632,428	Sept. 5	389	89	88	1783
Pope, Alonzo, Cincinnati, Ohio. Nut-lock	631,813	Aug. 29	3877	865	88	1546
Pope, Charles H., *et al.* (See Hopkins, Harvey L., assignor.)						
Pope, Charles H., Moline, Ill. Document-cover	629,601	July 25	3073	716	88	654
Pope, Frederick B., Augusta, Ga. Electric indicator	632,970	Sept. 12	1435	331, 332	88	2004
Pope, Harry M. (See Maxim, Pope, and Alden.)						
Pope, John M., Jacobs, Ga. Cotton chopper and sider	635,348	Oct. 24	2523	587	89	546
Pope, Joseph W., Pope, Va. Peanut-gatherer	617,814	Jan. 17	1832	409	86	396
Pope Manufacturing Company. (See Bubser, Fidel, assignor.)						
Pope Manufacturing Company. (See Copeland, James S., assignor.)						
Pope Manufacturing Company. (See Latta, Emmit G., assignor.)						
Pope Manufacturing Company. (See Maxim, Hiram P., assignor.)						
Pope Manufacturing Company. (See Reid, Fred T., assignor.)						
Pope, Samuel, and G. V. Barton, Runcorn, England. Apparatus for making lead oxid	633,533	Sept. 19	2494	586, 587	88	2223
Pope, Tjerck J., Sauquoit, N Y. Farrier's knife	632,846	Sept. 12	1215	278	88	1964
Popenhagen, Joseph B., Chicago, Ill. Device for making cigarettes	633,038	Sept. 12	1554	361	88	2027
Popham, Richard M., Philadelphia, Pa., assignor of one-fourth to C. W. Hayes, Washington, D. C. Gromet or eyelet	629,754	July 25	3347	781	88	706
Popp, Franz W. (See Van Wart, Popp, and Bradley.)						
Poppenburg, Johannes von der, Charlottenburg, Germany. Galvanic battery	628,116	July 4	302	71	88	60
Popper, Charles. (See Davis, Henry C., assignor.)						
Poppert, Peter H., assignor to H. M. Anderson and C. M. Osenbaugh, Denver, Colo. Pipe wrench and cutter	630,925	Aug. 15	2233	509	88	1196
Poquette, Joseph, Eidsvold, Wis. Chain-hook for logging-chains	620,177	Feb. 28	2520	573	86	1357
Porous Accumulator Company. (See Howell, John C., assignor.)						
Porten, Amanda M. (See Porten, William, assignor.)						
Porten, William, assignor to A. M. Porten, St. Paul, Minn. Adjustable folding horse for painters, plasterers, or others	638,987	Dec. 12	1482	340	89	2176
Porter, Charles M., West Point, Miss. Insecticide	619,612	Feb. 14	1478	------	86	1116
Porter, Daniel R., Chelsea, Mass., assignor to International Bridle Company, Kittery, Me. Horse-controller	622,261	Apr. 4	107	25	87	23
Porter, Edward O., Bristol, Conn. Hose-washer	619,220	Feb. 7	798	174	86	968
Porter, Edward R. (See Mercein and Porter.)						
Porter, Edwin E., Canal Fulton, Ohio. Soil-pulverizer	619,219	Feb. 7	796	173	86	968
Porter, Edwin F., Boston, Mass., assignor to Bay State Electric Heat and Light Company, Jersey City, N. J. Apparatus for heating and agitating air	622,863	Apr. 11	1222	284	87	251
Porter, Edwin F., Boston, Mass., assignor to Bay State Electric Heat and Light Company, Jersey City, N. J. Automatic electric switch	636,286	Nov. 7	110	24	89	944
Porter, Edwin F., Boston, Mass., assignor to Bay State Electric Heat and Light Company, Jersey City, N. J. Apparatus for heating and agitating air	638,272	Dec. 5	130	30	89	1891
Porter, Edwin H., Fort Wayne, Ind. Electric-motor-starting switch	624,971	May 16	1876	421, 422	87	1105
Porter, Franklin. (See Rooney, Henry F., assignor.)						
Porter, Frederick E., New Durham, N. J., assignor to National Automatic Acetylene Gas Machine Company, of New Jersey. Acetylene-gas-generating machine	623,425	Apr. 18	2268	519, 520	87	474
Porter Gold and Silver Extraction Company. (See Porter, Lewis E., assignor.)						
Porter, Harry B., Hartwick, Iowa. Hat and clothes rack	631,860	Aug. 29	3955	884	88	1563

Alphabetical list of patentees—Continued.

Name, residence, and invention.	No.	Date.	Monthly volume. Spec	Monthly volume. Drg.	Official Gazette. Vol.	Official Gazette. Page.
Porter, Henry W., Forestville, assignor to P T. Farrell and J. M. Toohey, New Britain, Conn. Mechanism for operating intermittingly-rotating shafts	634,068	Oct. 3	144	38	89	33
Porter, Lewis E., Los Angeles, Cal. Apparatus for extracting precious metals from ores.	639,766	Dec. 26	2926	674	89	2495
Porter, Lewis E., Los Angeles, Cal., assignor to Porter Gold and Silver Extraction Company, of California. Apparatus for extracting precious metals from ores	617,512	Jan. 10	1252	281	86	260
Porter, Llewellyn F., Eldridge, N. D. Smoke-stack attachment	637,664	Nov. 21	3123	647	89	1621
Porter, Samuel E., assignor to Fuller-Warren Company, Milwaukee, Wis. Sectional boiler	638,202	Nov. 28	4154	877	89	1846
Porter, Stephen, Boston, assignor to C. P. Dyer, Somerville, Mass., and C. F. Libby, Portland, Me. Mirror-hinge	620,551	Feb. 28	3187	730	86	1484
Porter, William E., and W. R. McKelvy, assignors of part to T. C. O'Donovan and E. E. Laughner, Shousetown, Pa. Mineral-separator	630,926	Aug. 15	2234	509	88	1196
Porter, Wilson E., assignor to New Haven Clock Company, New Haven, Conn. Bell for alarm-clocks	617,184	Jan. 3	614	144	86	120
Porth, Edward, *et al.* (See Kleinsteuber, Monroe A., assignor.)						
Portwood, Daniel, Moberly, Mo. Shoe-stretcher	622,390	Apr. 4	322	74	87	61
Possell, George W., *et al.* (See Bainter, Charles F., assignor.)						
Possons, Minard A., Cleveland, Ohio. Shipping-package	618,614	Jan. 31	3338	742	86	711
Post, Amos, and W. O'Brien, Catskill, N. Y. Acetylene-gas generator	631,476	Aug. 22	3245	736	88	1413
Post, Bernhard, and R. Goehring, Meyersville, Tex. Grinding-machine	624,086	May 2	249	52,53	87	749
Post, Ezra L., Wallingford, Conn. Saw-tool	639,285	Dec. 19	2012	463, 464	89	2294
Post, Friedrich G. J., Hamburg, Germany. Paper-cutter	631,475	Aug. 22	3243	736	88	1413
Post, Friedrich G. J., Hamburg, Germany. Copying-press	636,551	Nov. 7	563	125	89	1034
Post, John, New York, N. Y. Chemical electric excitant	639,767	Dec. 26	2929	------	89	2496
Post, John, New York, N. Y. Electric battery	639,905	Dec. 26	3166	729	89	2541
Post, Mary J., Hoboken, N. J. Clasp	636,287	Nov. 7	112	24	89	945
Post, Regis H., Bayport, N. Y. Self-cleansing filter	635,975	Oct. 31	3761	868	89	800
Postal Telegraph-Cable Company. (See Houghtaling, Walter A., assignor.)						
Postle, John D., Glebe, assignor to himself and H. J. Wilson, Sydney, New South Wales. Door stop and fastener	638,139	Nov. 28	4038	851	89	1822
Postlethwaite, Robert H., San Francisco, Cal. Elevator for gold-dredgers	629,602	July 25	3076	717	88	654
Postlethwaite, Robert H., assignor to Risdon Iron and Locomotive Works, San Francisco, Cal. Rotary grizzly or separator	619,341	Feb. 14	1014	229	86	1028
Postlethwaite, Robert H., assignor to Risdon Iron and Locomotive Works, San Francisco, Cal. Gold-dredging apparatus	622,532	Apr. 4	634	149	87	120
Postlethwaite, Robert H., assignor to Risdon Iron and Locomotive Works, San Francisco, Cal. Drive mechanism for rotary grizzlies or separators	625,274	May 16	2407	545	87	1208
Postley, Charles A., deceased, Austin, Tex.; C. E. Postley, administrator. Cord-tying device	629,871	Aug. 1	220	49	88	763
Postley, Charles E., administrator. (See Postley, Charles A.)						
Posttlethwait, Malinda, Potosi, Mo. Cultivator	625,353	May 23	2561	582	87	1259
Pötsch, Carl, Minden, Germany. Construction of ceilings and floors	637,943	Nov. 28	3643	764	89	1746
Pottenger, James H., Franklin, Ind. Fence-twisting tool	632,324	Sept. 5	214	50	88	1749
Pottenger, James H., Franklin, assignor to J. A. Everitt, Indianapolis, Ind. Insect-powder distributer	627,138	June 20	1706	374	87	1983
Potter, Alvin E. (See Killinan and Potter.)						
Potter, Byron T., *et al.* (See Erikson, John, assignor.)						
Potter, Charles, Plainfield, N. J. Cylinder printing-machine	619,788	Feb. 21	1845	421	86	1213
Potter, Charles, assignor to Potter Printing Press Company, Plainfield, N. J. Cylinder printing-machine	628,490	July 11	1007	234, 235	88	215
Potter, Charles W., Montclair, N. J. Horse clipping and grooming machine	621,703	Mar. 21	2150	479	86	1944
Potter, Ellis M., New York, N. Y. Coffee-roasting machine	620,355	Feb. 28	2843	650	86	1418
Potter, Eugene B., *et al.* (See De Tray, Frederick H., assignor.)						
Potter, George D., Spokane, Wash. Ejecting mechanism for breakdown guns	625,601	May 23	2978	676, 677	87	1341
Potter, Gideon. (See Vail and Potter.)						
Potter, Harry V., *et al.* (See Peacock, George J., assignor.)						
Potter, Hobert B., East Orange, N. J , assignor of three-fifths to Standard Railroad Signal Company, New York, N. Y. Locking mechanism for switch and signal mechanism	638,756	Dec. 12	1079	241	89	2097
Potter, James C., assignor to Howard & Bullough American Machine Company, Limited, Pawtucket, R. I. Milling-machine	619,501	Feb. 14	1297	297	86	1083
Potter, James C., and J. Johnston, assignors to Potter & Johnston Company, Pawtucket, R. I. Lathe-chuck	635,976	Oct. 31	3763	868, 869	89	801
Potter & Johnston Company. (See Potter and Johnston, assignors.)						
Potter, Oliver E., Cameron, Mo. Gate	618,290	Jan. 24	2735	606	86	583
Potter, Oliver E., Cameron, Mo. Gate-latch	625,602	May 23	2981	677	87	1341
Potter Printing Press Company. (See Potter, Charles, assignor.)						
Potter, William B., Schenectady, N. Y.; assignor to General Electric Company, of New York. System of control for electric motors and railway-trains	617,601	Jan. 10	1407	319, 320	86	292
Potter, William B., Schenectady, N. Y., assignor to General Electric Company, of New York. Surface-contact railway system	630,927	Aug. 15	2236	510	88	1196
Potter, William B., and F. E. Case, Schenectady, N. Y., assignors to General Electric Company, of New York. Means for preventing improper manipulation of air-brakes	636,552	Nov. 7	565	125	89	1035
Potter, William M., Syracuse, N. Y., assignor to E. C. Stearns & Co. Wagon-jack	631,663	Aug. 22	3585	808	88	1482
Potter, William M., Syracuse, N. Y., assignor to E. C. Stearns & Co. Saw-vise	631,664	Aug. 22	3587	808	88	1482
Potter, William M., Syracuse, N. Y., assignor to E. C. Stearns & Co. Bicycle-stand	631,655	Aug. 22	3588	809	88	1482
Potter, Zoroaster F., assignor to Baltimore Filter Company, Baltimore, Md. Filter	619,838	Feb. 21	1924	438, 439	86	1229
Potter, Zoroaster F., assignor to Baltimore Filter Company, Baltimore, Md. Filter	619,839	Feb. 21	1929	439, 440	86	1230
Pottier & Stymus Company. (See Johnston, John S., assignor.)						
Potts, Samuel C., Apple Valley, Ga Cotton-picker's spring spine-supporter	637,156	Nov. 14	1795	385	89	1305
Pou, John D. (See Bell, Frank M., assignor.)						
Poughkeepsie Foundry and Machine Company. (See Crawford and Bullard, assignors.)						
Poulsen, Johan, Portland, Oreg. Lumber-raft	619,502	Feb. 14	1298	298	86	1083
Poulson, Niels, New York, N. Y. Elevator	633,215	Sept. 19	1922	452	88	2112
Pounds, Thomas, Plymouth, England. Screw-propeller	634,368	Oct. 3	756	180	89	151
Pourcelle, Jules E. A. V., Cantigny, France. Acetylene-gas generator	627,139	June 20	1707	375	87	1983
Powdrill, Samuel, and W. C. Peet, Fleckney, England. Ball-bearing	618,132	Jan. 24	2445	545	86	529
Powel, Harford W. H., Newport, R. I. Device for gaging and positioning tools of slide-rest lathes	624,535	May 9	1089	245	87	933
Powel, Harford W. H., Newport, R. I. Can	637,996	Nov. 28	3743	787	89	1766
Powell, Abram G., Philadelphia, Pa. Vehicle	635,977	Oct. 31	3765	869	89	801
Powell, Allen W., assignor of one-half to E. McPhee, Lead City, S. D. Miner's candlestick	626,817	June 13	1101	247	87	1845

Alphabetical list of patentees—Continued.

Name, residence, and invention.	No.	Date.	Monthly volume.		Official Gazette.	
			Spec	Drg	Vol	Page.
Powell, Andrew, New York, N. Y. Acetylene-gas generator	631,666	Aug. 22	3589	809	88	1482
Powell, Benjamin F., Manzanola, Colo. Head-gate-locking device	631,667	Aug. 22	3591	809	88	1483
Powell, Edgar L., Harrogate, England. Compensator for signals	631,814	Aug. 29	3878	865 866	88	1546
Powell, Elmer, assignor of one-half to L. Makley, Dayton, Ohio. Horseshoe	631,751	Aug. 22	3756	842	88	1512
Powell, George W., *et al.* (See McCune, James F., assignor.)						
Powell, James, assignor to William Powell Company, Cincinnati, Ohio. Straightway valve	627,140	June 20	1708	375	87	1983
Powell, James C., Macon, Ga. Advertising apparatus	636,553	Nov. 7	567	125 126	89	1036
Powell, James, D Colville, Jr., J. Jardine, and T. B. Mackenzie, Motherwell, Scotland. Apparatus for charging materials into open-hearth steel-melting furnaces	639,090	Dec. 12	1649	381	89	2206
Powell, John B., Philadelphia, Pa., assignor to Columbia Motor Manufacturing Company, of New Jersey. Spring-motor	638,851	Dec. 12	1238	279	89	2127
Powell, Lemuel L , Elkton, Va. Lamp-hanger	617,351	Jan. 10	944	218	86	203
Powell, Robert, Myrtle Creek, Oreg. Fruit-grader	621,281	Mar. 14	1387	307	86	1783
Powell, Samuel L., Newberry, S. C. Shutter-worker	632,365	Sept. 5	279	65	88	1762
Powell, William P. (See Pangborn, Redmond H., assignor.)						
Power Developing Company. (See Powers, Jay W., assignor.)						
Power Eyeletting Machine Company. (See Smith, Robert B., assignor.)						
Power, Howard S., and J A. Devore, Pittsburg, Pa. Railway-car brake-shoe	619,990	Feb. 21	2193	499	86	1279
Power, John J., assignor of one-half to Simonds Manufacturing Company, Pittsburg, Pa. Apparatus for forming glass articles	619,694	Feb. 14	1641	376 377	86	1148
Powers, Charles, assignor of one-half to J. Carroll, Chapman, Kans. Traction-wheel	618,808	Jan. 31	3680	824	86	780
Powers, Clark, Somerville, Mass. Violin	625,058	May 16	2022	455	87	1132
Powers, Edward E., Geneva, Switzerland. Pneumatic wheel	628,845	July 11	1682	392 393	88	348
Powers, Elias W., Chicago, Ill. Horseshoe	626,768	June 13	1004	226	87	1827
Powers, Henderson M., Lancaster, Pa. Damper	619,342	Feb. 14	1016	229	86	1028
Powers, Henry A. (See Griffitt, Emanuel, assignor.)						
Powers, Jay W., Minneapolis, Minn., assignor to Power Developing Company, of Minnesota. Steam-engine	624,536	May 9	1094	246	87	934
Powers, Jay W., Minneapolis, Minn., assignor to Globe Acetylene Gas Company, of Minnesota. Acetylene-gas generator	625,697	May 23	3136	713	87	1371
Powers, Michael L., Orange, Mass. Whistling-top	625,121	May 16	2142	486	87	1154
Powers, Orlando W., *et al.* (See Knapp, Willis, assignor.)						
Powers, Smiley S., and C. R. Cook, Canton, N. Y. Pulp-drying machine	633,089	Sept. 12	1660	392	88	2049
Powers, Thomas J , Steubenville, Ohio. Folding screen for beds	623,737	Apr. 25	2810	643	87	595
Powers, William T., Grand Rapids, Mich. Calcining apparatus	618,902	Feb. 7	145	32	86	833
Powley, Joseph, Galt, Canada. Invalid-bed	620,800	Mar. 7	485	102	86	1596
Powley, William D., Lexington, Ill. Flue-stopper	620,799	Mar. 7	483	101	86	1596
Powlison, Maude A (See Amess and Powlison.)						
Poyen, John S., Amesbury, Mass. Elliptic spring	624,244	May 2	555	118	87	805
Poyet, John B., Philadelphia, Pa., assignor to Hensel, Colladay Company, of Pennsylvania. Skirt-protector	621,134	Mar. 14	1134	246	86	1733
Poynor, Robert. (See Parker and Poynor.)						
Poyser, John, Wirksworth, England. Let-off and take-up mechanism for looms	618,291	Jan. 24	2737	606 607	86	583
Poyser, John, Wirksworth, England. Warp stop-motion for looms	625,898	May 30	3545	805	87	1468
Poyser, John, Wirksworth, England. Batten for weaving-looms	635,805	Oct. 31	3427	790 791	89	736
Poyser, John, Wirksworth, and F. L. Ball, Birmingham, England. Let-off motion for weaving-looms	617,045	Jan. 3	367	88, 89	86	70
Poyser, William F., and J. Brown, Fort Wayne, Ind. Water-column for railway water-tanks	631,439	Aug. 22	3177	722	88	1400
Poyser, William J., *et al.* (See Allen, Lemuel E., assignor.)						
Pracht, Henry, New York, N. Y. Sash-holder	624,243	May 2	555	118	87	805
Prade, Julian, Waco, Tex. Nut-cracking device	622,262	Apr. 4	108	25	87	24
Praeger, Ewald, San Antonio, Tex. Blind-fastener	618,995	Feb. 7	390	81	86	886
Praeger, Ewald, San Antonio, Tex. Yardstick-calculator	630,005	Aug. 1	520	114	88	826
Prager, Sigismund, Raab, Austria-Hungary. Means for regenerating exhaust-steam	640,151	Dec. 26	3614	831	89	2635
Prahar, Louis B., New York, N. Y. Bag-frame	624,863	May 9	1681	381	87	1049
Prall, Edgar F. (See Prall, William E. and E. F.)						
Prall, James H., Carlisle, Iowa. Harness and thill attachment	632,279	Sept. 5	141	32	88	1735
Prall, Julia L. (See Prall, William E. and E. F., assignors.)						
Prall, William E. and E. F., assignors to J. L. Prall, New York, N. Y. Piston impact-engine	619,221	Feb. 7	799	174	86	969
Prante, Otto, and A. Schmidt, Langerfeld, Germany. Lace-making machine	618,815	Jan. 31	3698	828	86	783
Prásil, Franz, Zurich, Switzerland. Turbine	629,700	July 25	3242	754 755	88	686
Pratt, Alexander C., Carson, Nev. Gravity-hoist	620,801	Mar. 7	487	102	86	1597
Pratt, Alexander C., and C. A. La Grave, Carson, Nev., assignors to Ideal Stamp Mill Company, of Nevada. Stamp-mill	634,417	Oct. 3	841	202 203	89	168
Pratt, Bennett R., Sharpsville, Ind. Potato-digging machine	622,072	Mar. 28	2345	641	86	2093
Pratt, C. Manville. (See Roberts, Aden H., assignor.)						
Pratt & Cady Company. (See Upson, Edwin L., assignor.)						
Pratt, Charles W., Grand Rapids, Mich. Reversible rotary engine	631,815	Aug. 29	3880	866	88	1547
Pratt, Francis A., Hartford, Conn. Drop-hammer-operating means	627,349	June 20	2095	463	87	2061
Pratt, Francis A., Hartford, Conn. Drop-hammer-operating mechanism	627,350	June 20	2097	463	87	2061
Pratt, Frederick A., assignor of two-thirds to C. Bartzen and A. H. Wethey, Butte, Mont. Ore-separator	639,433	Dec. 19	2313	533 534	89	2353
Pratt, George T., Windham, Me. Attachment for wetting calender-rolls of paper-making machines	638,757	Dec. 12	1080	241	89	2098
Pratt, Henry C., Canandaigua, N. Y. Wire-stretcher	625,987	May 30	3714	843	87	1501
Pratt, John, assignor to Hammond Type-Writer Company, New York, N. Y. Type-writing machine	620,959	Mar. 14	786	173 174	86	1667
Pratt, John, assignor to Hammond Type-Writer Company, New York, N. Y. Type-writing machine	620,960	Mar. 14	791	174 175	86	1668
Pratt, John, assignor to Hammond Type-Writer Company, New York, N. Y. Type-writing machine	620,961	Mar. 14	796	175 176	86	1669
Pratt, John, assignor to Hammond Type-Writer Company, New York, N. Y. Type-writing machine	631,381	Aug. 22	3066	694 695 696	88	1377
Pratt, Joseph G., Chicago, Ill. Machine for treating fibrous plants	637,824	Nov. 28	3420	715	89	1701
Pratt, Mason D. (See Alden and Pratt.)						
Pratt, Norman H., Duplainville, Wis. Automatic train-order-blank holder	628,991	July 18	1951	454	88	417

Alphabetical list of patentees—Continued.

Name, residence, and invention.	No.	Date.	Monthly volume.		Official Gazette.	
			Spec.	Dr'g.	Vol.	Page.
Pratt, Robert M., St. Helena, Cal. Fruit-grader	639,906	Dec. 26	3167	729, 730	89	2542
Pratt & Whitney Company. (See Cooley, Charles H., assignor.)						
Pratt & Whitney Company. (See Couch, Elbert M., assignor.)						
Pratt & Whitney Company. (See Echols, Frank G., assignor.)						
Pratt & Whitney Company. (See Grohmann, Carl L., assignor.)						
Pratt & Whitney Company. (See Randles, George E., assignor.)						
Pratt & Whitney Company. (See Whitney and Harrington, assignors.)						
Pratt & Whitney Company. (See Woerner, Louis C., assignor.)						
Pratt, Willey, Halifax, England. Machine for rolling pastry	626,720	June 13	920	209	87	1811
Pratt, William A., Stamford, Conn. Device for turning nipples	620,251	Feb. 28	2663	608	86	1383
Pratt, William A., Stamford, Conn. Device for turning rubber tubes	620,356	Feb. 28	2846	651	86	1418
Pray, Lewis, Noble, Iowa. Device for watering live stock	623,382	Apr. 18	2189	502	87	457
Precht, Heinrich, assignor to Salzbergwerk Neustassfurt, Neustassfurt, Germany. Packing caustic alkalies	624,972	May 16	1878	422	87	1105
Preckelt, Max, *et al.* (See Dämitz, Adolf, assignor.)						
Preissler, Ernst O., Leipsic, assignor to Kirchner & Co., Leipsic-Sellershausen, Germany. Mechanism for operating tables of machine-tools	639,863	Dec. 26	3096	712	89	2528
Prejean, Cleomer, Milton, La. Windmill	639,091	Dec. 12	1650	381, 382	89	2206
Premier Manufacturing Company. (See Allen, William B., assignor.)						
Premier Manufacturing Company. (See Smith, Charles S., assignor.)						
Prencel, Anthony, Seguin, Tex. Automatic alarm for steam-boilers	629,206	July 18	2340	543	88	491
Prendergast, Daniel J., New York, N. Y., assignor to Pennsylvania Globe Gas Light Company, Philadelphia, Pa. Street-lamp	618,804	Jan. 31	3681	824	86	780
Prendergast, Daniel J., New York, N. Y., assignor to Pennsylvania Globe Gas Light Company, Philadelphia, Pa. Street-lamp	627,239	June 20	1880	412	87	2018
Prendergast, James, Le Roy, N. Y. Game	635,898	Oct. 31	3624	835	89	775
Prendergast, William H., assignor of one-half to C. D. Kline, Savannah, Ga. Metallic packing	638,682	Dec. 5	945	210	89	2052
Prentice, Chalmers, assignor to Geneva Optical Company, Chicago, Ill. Retinoscope	627,011	June 13	1494	326	87	1923
Prentice, Charles F., assignor to E. B. Fox and R. A. Stendicke, New York, N. Y. Ophthalmometer	634,539	Oct. 10	1066	255	89	230
Prentice, Cyrus L. (See Prentice, Frank W., assignor.)						
Prentice, Frank W., assignor to C. L. Prentice, Nelson, Ohio. Process of and composition for cleaning stone	620,178	Feb. 28	2520		86	1357
Prentiss, Henry S., Elizabeth, N. J. Time-switch	632,145	Aug. 29	4481	1009	88	1666
Prentiss, Irving R., Schenectady, N. Y., assignor to General Electric Company, of New York. Arc-lamp	637,825	Nov. 28	3422	716	89	1701
Presbrey, Charles H., Sterling, Ill. Automatic watering-trough	622,533	Apr. 4	636	149	87	121
Presbrey, Charles H., Sterling, Ill. Automatic watering-trough	634,504	Oct. 10	999	239	89	217
Preschlin, Paul E., Schladem-on-the-Sieg, Germany, assignor of one-half to Elmore's German and Austro-Hungarian Metal Company, Limited, London, England. Joint for thin-metal pipes	622,534	Apr. 4	638	150	87	121
Prescott, Amos L. (See Cummings, Henry H., assignor.)						
Prescott, Amos W., Haverhill, Mass. Car-door fastening	619,991	Feb. 21	2194	499	86	1279
Prescott, Charles H., assignor to Biddle & Smart Company, Amesbury, Mass. Device for putting rubber tires on carriage-wheels	616,967	Jan. 3	191	44	86	38
Prescott, Edwin, Arlington, Mass. Stanchion	619,222	Feb. 7	801	175	86	969
Prescott, George. (See Fitzgerald and Prescott.)						
Prescott, Joseph D., assignor of two-thirds to A. W. Griffith, Boston, and C. N. Bacon, Winchester, Mass. Vehicle-tire	634,069	Oct. 3	146	38	89	33
Pressler, Charles F. (See Hosler and Pressler.)						
Prest, Walter H., Bedford, Canada. Pick or like tool	620,077	Feb. 21	2346	532	86	1308
Preston, A. M. (See Terrell, Early W., assignor.)						
Preston, Frank, Elgin, Ill. Combined corkscrew and valve for beer-pumps	637,826	Nov. 28	3423	716	89	1701
Preston, Clarence S., *et al.* (See Dunn, Russell L., assignor.)						
Preston, James A., Joliet, Ill. Apparatus for electrically annealing wire or rods	626,769	June 13	1006	226, 227	87	1827
Preston, Edward E., and C. E. Sibson, Leicester, England. Pneumatic tire and rim for cycle or other wheels	620,252	Feb. 28	2664	608	86	1383
Preston, Edwin J., and A. B. Gill, London, England. Apparatus for electric-current supply, &c	617,121	Jan. 3	502	120, 121	86	98
Preston, Frederick L., Beloit, Wis. Annular stamp-mill	620,962	Mar. 14	800	176	86	1669
Preston, William, St. Helen's, England. Annealing-furnace for glass	625,801	May 30	3363	764	87	1433
Preston, William C., Rochester, N. Y. Speculum	636,213	Oct. 31	4237	974	89	896
Preston, William H., Valley Junction, Wis. Wrench	632,847	Sept. 12	1215	278	88	1964
Prestwich, John A., London, England. Mechanism for propelling and exposing films in kinetoscopic apparatus	620,357	Feb. 28	2847	651	86	1418
Prestwich, John A., London, England. Film-actuating mechanism for kinetoscopic apparatus	627,526	June 27	2445	538	87	2146
Pretsman, William, Greenville, Ohio. Tobacco-planter	633,216	Sept. 19	1923	452, 453	88	2113
Pretzel, Franz, Berlin, Germany. Coupling for ropes, cords, &c	619,343	Feb. 14	1017	229	86	1028
Preussel, Frank W., Mount Clemens, Mich. Acetylene-gas generator	639,933	Dec. 26	3217	738	89	2553
Preusser, Richard F., Washington, D. C. Life-guard for street-cars	634,834	Oct. 10	1575	370	89	330
Preussner, Ludwig, *et al.* (See Buddeus, Wilhelm, assignor.)						
Prevost, Dwight F., New York, assignor of two-thirds to H. McTague and J. J. Dollard, Mount Vernon, N. Y. Device for lifting and transporting trees	639,286	Dec. 19	2014	464, 465	89	2295
Pribble, Irvin, assignor of one-half to N. S. Wear, Topeka, Kans. Carrier	636,554	Nov. 7	568	126	89	1036
Pribyl, Frank G., Houston, Tex. Attachment for type-writing machines	633,347	Sept. 19	2178	511	88	2162
Price, Albert, assignor to Ramie Company, St. Louis, Mo. Decorticating-machine	638,140	Nov. 28	4039	851	89	1822
Price, Albert M., Chicago, Ill. Bicycle-bearing adjustment	621,582	Mar. 21	1926	431	86	1899
Price, Clay S., Shell, Wyo. Washing-machine	631,905	Aug. 29	4026	902	88	1576
Price, Edwin G. (See Hill and Price.)						
Price, Frank J. (See Gue, David J., assignor.)						
Price, Frank J., *et al.* (See Gue, Harry D., assignor.)						
Price, Fred R., *et al.* (See Deadman, John F., assignor.)						
Price, Gomer W., San Francisco, Cal. Centrifugal pump	633,732	Sept. 26	2892	672	88	2315
Price, Harry G., Philadelphia, Pa. Fastener for shoes, &c	635,184	Oct. 17	2231	520	89	475
Price, Isaac W., McConnelsville, assignor of one-half to E. A. Gregg, Triadelphia, Ohio. Swaging-tool	634,909	Oct. 17	1709	404	89	373
Price, James, Maidstone, England. Clutch	627,876	June 27	3089	676	87	2272
Price, Jesse E., Ruth, Miss. Nut-lock	625,122	May 16	2143	486	87	1154
Price, Jesse V. (See Webb and Price.)						
Price, John, Wilmington, Del. Piston	627,707	June 27	2794	611	87	2214

Alphabetical list of patentees—Continued.

Name, residence, and invention.	No.	Date.	Monthly volume. Spec.	Monthly volume. Dr'g.	Official Gazette. Vol.	Official Gazette. Page.
Price, John B., Newark, N. J., assignor to Manhattan Typewriter Company, of New Jersey. Type-writing machine	627,141	June 20	1710	375	87	1984
Price, John B., Newark, N. J., assignor to Manhattan Typewriter Company, of New Jersey. Type-writing machine	635,078	Oct. 17	2030	479	89	438
Price, John B., Newark, N. J., assignor to Manhattan Typewriter Company, of New Jersey. Type-writing machine	635,079	Oct. 17	2033	480	89	438
Price, John I., assignor to J. K. Farley Manufacturing Company, Chicago, Ill. Barrel	622,975	Apr. 11	1420	328	87	290
Price, Jonn P., *et al.* (See Perkins, Charles S., assignor.)						
Price, Marie L., Chicago, Ill. Flower-pot	616,968	Jan. 3	192	44	86	38
Price, Orvey, Forty Fort, Pa. Bicycle-bell	617,602	Jan. 10	1413	321	86	293
Price, Robert P., *et al.* (See Perkins, Charles S., assignor.)						
Price, William, Liverpool, England. Manufacture of tiles	625,413	May 23	2654	603, 604	87	1277
Price, William G., assignor to Columbia Brake and Supply Company, Chicago, Ill. Car-brake	625,849	May 30	3451	783	87	1450
Price, William M., Philadelphia, Pa. Numbering-punch	628,846	July 11	1684	393	88	349
Price-Williams, Richard. (See Martin and Price-Williams.)						
Price-Williams, Richard, London, England. Rail-joint	629,919	Aug. 1	340	75	88	788
Prichard, Anthony P., Tacoma, Wash. Burglar-alarm for safes	627,527	June 27	2446	538	87	2146
Prickett, Brantly. (See Elrod, Prickett and Smith.)						
Prideaux, Lewis, Philadelphia, Pa. Thill-coupling	617,767	Jan. 17	1725	387	86	374
Prideaux, Lewis, Philadelphia, Pa. Thill-coupling	617,768	Jan. 17	1726	387	86	374
Pridmore, Edward, assignor to Johnston Harvester Company, Batavia, N. Y. Grain-harvester	618,546	Jan. 31	3221	715	86	689
Pridmore, Henry E., Chicago, Ill. Corn-harvester	618,805	Jan. 31	3682	825	86	780
Pridmore, Henry E., Chicago, Ill., assignor to McCormick Harvesting Machine Company. Machine for making sand molds for castings	628,034	July 4	134	28	88	28
Pridmore, Henry E., assignor to McCormick Harvesting Machine Company, Chicago, Ill. Mowing-machine	632,061	Aug. 29	4321	971	88	1632
Pridmore, John W., Chicago, Ill., assignor to McCormick Harvesting Machine Company. Frame for aprons of grain-harvesters	631,668	Aug. 22	3592	810	88	1483
Pridmore, John W., Chicago, Ill., assignor to McCormick Harvesting Machine Company. Apron-tightener for grain-harvesters	632,062	Aug. 29	4323	972	88	1633
Pridmore, John W., Chicago, Ill., assignor to McCormick Harvesting Machine Company. Endless apron for harvesters	632,063	Aug. 29	4325	972	88	1633
Priebs, Bernhard, and O. Kaltwasser, assignors to Actien-Gesellschaft für Anilin Fabrikation, Berlin, Germany. Black dye	628,607	July 11	1223	------	88	256
Priebs, Bernhard, and O. Kaltwasser, assignors to Actien-Gesellschaft für Anilin Fabrikation, Berlin, Germany. Black dye	628,608	July 11	1224	------	88	257
Priebs, Bernhard, and O. Kaltwasser, assignors to Actien-Gesellschaft für Anilin Fabrikation, Berlin, Germany. Bluish-black dye	628,609	July 11	1225	------	88	257
Pries, Herman. (See Casey and Pries.)						
Pries, Herman. (See Williamson and Pries.)						
Pries, Herman, and J. W. Meyer, Michigan City, Ind. Car-door fastener	638,758	Dec. 12	1081	242	89	2098
Priest, Augustus F., Denver, Colo. Railway-spike	637,525	Nov. 21	2496	541	89	1458
Priest, Edward D., Schenectady, N. Y., assignor to General Electric Company, of New York. Armature for dynamo-electric machines	618,727	Jan. 31	3544	792	86	752
Priest, Edward D., Schenectady, N. Y., assignor to General Electric Company, of New York. Railway-motor	625,802	May 30	3367	764, 765	87	1434
Priest, Joseph K., assignor to American Shearer Manufacturing Company, Nashua, N. H. Mechanism for transmitting power	627,202	June 20	1817	398	87	2005
Priest, Joseph K., assignor to American Shearer Manufacturing Company, Nashua, N. H. Core for flexible shafting	627,203	June 20	1818	398	87	2005
Priest, Stephen and Stephen, Jr., West Devonport, Tasmania. Back-pedaling brake	623,825	Apr. 25	3002	688	87	633
Priest, Stephen B., *et al.* (See Benham, William B., assignor.)						
Priest, True W., *et al.* (See Ham, Henry H., assignor.)						
Priester, Herman. (See Damitz, Adolf, assignor.)						
Priestman, Albert, Philadelphia, Pa. Raising sewage	632,745	Sept. 12	1023	237	88	1923
Prime, Daniel N., assignor of one-half to W. H. Treen, Lynn, Mass. Eyeleting-machine	636,175	Oct. 31	4164	955, 956	89	883
Prince, George C., Philadelphia, Pa., assignor to Wm. H. Greir Company, New York, N. Y. Combined pad and pad-holder	619,613	Feb. 14	1478	338	86	1117
Prince, George T., Omaha, Nebr. Pressure-relief valve	618,903	Feb. 7	146	32	86	833
Prince, George T., Omaha, Nebr. Air-relief valve	618,904	Feb. 7	147	32	86	834
Prince, John A., New York, N. Y. Automatic stop attachment for paper-embossing machines	633,701	Sept. 26	2839	660	88	2304
Prince, John A., New York, N. Y. Paper-drying machine	633,733	Sept. 26	2893	672	88	2315
Prindle, Corydon L., Evanston, Ill. Gate for swing-bridges	635,589	Oct. 24	3014	692	89	641
Prindle, Frank P., Washington, D. C., assignor to Veeder Manufacturing Company, Hartford, Conn. Cyclometer	640,025	Dec. 26	3382	775	89	2587
Pringle, Andrew. (See Sweetser and Pringle.)						
Pringle, Eugene, Gloversville, N. Y., assignor to Bradt & Shipman, De Kalb, Ill. Stud member for detachable fasteners	628,035	July 4	135	23	88	28
Pringle, George W., and W. Brodie, Chicago, Ill. Wood-turning machine	630,928	Aug. 15	2238	510	88	1197
Pringle, James. (See McKinnon and Pringle.)						
Pringle, Robert E. T. (See Badger and Plews, assignors.)						
Pringle, Thomas J. (See Worden, Will J., assignor.)						
Prins, Charlie. (See Field and Prins.)						
Printing Telegraph and Type Writer Company, *et al.* (See Hachmann, Frederick, assignor.)						
Prinz, August H., and H. Haber, Vienna, E. Tomischka, Hirschwang, and J. F. von Brenner, Vienna, Austria-Hungary. Treating jute-bast, &c	621,135	Mar. 14	1135	------	86	1733
Prinz, John, Louisville, Ky. Dump cart or wagon	626,721	June 13	921	209	87	1811
Prinz, William H., Austin, assignor to Saladin Pneumatic Malting Construction Company, Chicago, Ill. Air moistener and attemperator	618,615	Jan. 31	3340	742, 743	86	711
Prinz, William H., assignor to Saladin Pneumatic Malting Construction Company, Chicago, Ill. Apparatus for drying malt. (Reissue)	11,728	Mar. 28	3121	702	86	2154
Prinz, William H., Austin, assignor to Saladin Pneumatic Malting Construction Company, Chicago, Ill. Malt-house	624,245	May 2	557	118, 119	87	805
Prinz, William H., Austin, assignor to Saladin Pneumatic Malting Construction Company, Chicago, Ill. Apparatus for drying malt	626,929	June 13	1343	295, 296	87	1802
Prinzing, George W., Bartlett, Tex. Combination-tool	638,759	Dec. 12	1083	242	89	2098
Prior, George A., assignor of two-thirds to J. U. Reed and H. A. Lawrence, Hartford, Conn. Universal joint	634,540	Oct. 10	1069	255	89	230
Pritchard, George W. (See Rice, Orrin, assignor.)						
Pritchard, John F., Manitowoc, Wis., and H. H. Miller, Chicago, Ill. Traveling-bag, &c	622,263	Apr. 4	111	26	87	24

Alphabetical list of patentees—Continued.

Name, residence, and invention	No.	Date.	Monthly volume. Spec.	Monthly volume. Dr'g.	Official Gazette. Vol.	Official Gazette. Page.
Pritchard, Reuben L. (See Baynard, James W., assignor.)						
Pritchard, Thomas, Deerfield, N. Y. Hay-rack	639,825	Dec. 26	3031	698	89	2516
Pritchett, Green W. (See Brandes, Herman H., assignor.)						
Pritchett, Orlando W., *et al.* (See Garber and Beall, assignors.)						
Pritchett, William T., *et al.* (See Garber and Beall, assignors.)						
Probasco, Abraham B., Lebanon, Ohio. Wire-fence machine	632,746	Sept. 12	1025	237, 238	88	1924
Probert, Hubert F., Chicago, Ill. Means for transmitting power and reversing its motion	624,973	May 16	1879	422	87	1105
Probst, Emmet, Paterson, N. J. Shutter-worker	636,555	Nov. 7	570	126	89	1037
Proctor, Elon C. (See Shultz, Jacob F., assignor.)						
Proctor, James, Burnley, England. Mechanical stoker	622,634	Apr. 4	803	187	87	152
Proctor, James R. (See Oakey, William V., assignor.)						
Proctor, Josiah K., assignor to Philadelphia Textile Machinery Company, Philadelphia, Pa. Machine for treating tobacco	622,976	Apr. 11	1422	328	87	290
Proctor, Josiah K., assignor to Philadelphia Textile Machinery Company, Philadelphia, Pa. Machine for treating tobacco. (Reissue)	11,748	June 13	1609	352	87	1944
Proctor, Josiah K., assignor to Philadelphia Textile Machinery Company, Philadelphia, Pa. Machine for drying yarn	629,270	July 18	2441	565	88	509
Proctor, Maro L., Constantine, Mich. Acetylene-gas generator	620,179	Feb. 28	2522	573	86	1357
Proctor, Richard B., assignor of two-thirds to C. T. Copley, Durham, N. C., and J. S. Pickett, Norfolk, Va. Ice-crusher	625,201	May 16	2264	515	87	1177
Proctor, William E. (See Trewent and Proctor.)						
Procunier, Henry E. (See Sewall and Procunier.)						
Procunier, Henry E., Chicago, Ill. Terminal-head box	637,894	Nov. 28	3563	746	89	1730
Prokov, Friedrich W., Berlin, Germany. Electric signaling apparatus for rail or tram ways	637,414	Nov. 21	2303	496, 497	89	1422
Prokov, Friedrich W., assignor of two-thirds to Bolds & Vogel and H. Van Heese, Hamburg, Germany. Section circuit-closer	628,036	July 4	137	28, 29	88	29
Propfe, August, Philadelphia, Pa. Composition for sealing fruit-cans	636,922	Nov. 14	1341	------	89	1218
Prophitt, Annie B., West Point, Ga., assignor of one-half to R. Law, Silverdale, Canada. Locomotive-protector	625,603	May 23	2982	677	87	1341
Propst, Henry W., West Liberty, Iowa. Fruit-picker	617,258	Jan. 3	752	176	86	148
Proskey, David, *et al.* (See Proskey, Winfield S., assignor.)						
Proskey, Winfield S., Ocala, Fla., assignor of one-half to D. Proskey, Paterson, N. J. Hydrocarbon incandescent lamp	628,415	July 4	865	203	88	166
Proskey, Winfield S., Ocala, Fla., assignor to E. C. Sterling, New York, N. Y., and D. Proskey, Paterson, N. J. Hydrocarbou-vapor lamp for incandescent lighting	626,930	June 13	1344	296	87	1892
Pross, John A. (See Casler and Pross.)						
Prosser, Henry B., *et al.* (See Hall, Chester P., assignor.)						
Protheroe, Charles C., New York, N. Y. Mechanical movement	626,345	June 6	242	56, 57	87	1660
Protheroe, Charles C., New York, N. Y. Ball-bearing slide	638,273	Dec. 5	132	30	89	1891
Protheroe, Charles C., and A. H. Man, New York, N. Y. Mechanical movement	629,392	July 25	2679	624	88	578
Prout, John C., Jr., Ogden, Utah. Mower-guard	622,535	Apr. 4	638	150	87	121
Prouty, Chester, Ridgway, Pa. Peavey	627,528	June 27	2448	539	87	2147
Prouty, Chester, Ridgway, Pa. Peavey or cant-hook	634,587	Oct. 10	1150	273, 274	89	246
Prouty, Chester, Ridgway, Pa. Cant-hook	637,157	Nov. 14	1796	385	89	1306
Prouty, Chester, Ridgway, Pa. Mallet	637,158	Nov. 14	1799	386	89	1306
Prouty, John H., Albany, N. Y. Inking device for printing-machines	631,126	Aug. 15	2612	591	88	1269
Prouty, Theodore C., Midland, Mich. Door-hanger	624,246	May 2	559	119	87	806
Prouty, Theodore C., Midland, Mich. Door-hanger	624,247	May 2	561	119, 120	87	806
Prouty, Theodore C., Midland, Mich. Ball-bearing wheel	624,248	May 2	563	120	87	807
Prouty, William B., Ridgway, Pa. Saw-handle	617,769	Jan. 17	1727	387	86	374
Prouty, William B., Ridgway, Pa. Saw	622,536	Apr. 4	639	150	87	121
Provins, Clark B., Ottawa, Ill. Speculum	624,537	May 9	1095	246	87	934
Provis, Charles, Emsworth, England. Clip for nursing-bottles	624,974	May 16	1882	423	87	1106
Provost, Euclide. (See Sullivan and O'Connor, assignors.)						
Provuncher, Joseph, East Providence, R. I. Water-tube steam-boiler	617,298	Jan. 3	830	193, 194	86	164
Prücker, Amand C. M., Hanover, Germany, assignor to Siemens & Halske Electric Company of America, Chicago, Ill. Incandescent-lamp base and socket	623,623	Apr. 25	2626	599	87	560
Prudden, Newton F. (See Yakley and Prudden.)						
Pruitt, Andrew L., Pearsall, Tex. Vehicle-wheel	637,030	Nov. 14	1545	332	89	1259
Prunty, John E., Baltimore, Md. Gas-lighting attachment	625,698	May 23	3138	713, 714	87	1372
Prym, August, Stolberg, Germany. Apparatus for converting liquid metal into hollow articles or strips of metal	629,817	Aug. 1	106	26	88	741
Pryor, Noble N. (See Carlisle, Samuel M., assignor.)						
Psimenos, Theodore J., London, England. Bicycle	633,612	Sept. 26	2682	624, 625	88	2272
Puckett, Thomas C., Bates City, Mo. Lantern-holder	623,336	Apr. 18	2111	484	87	442
Puffer, Samuel W., Rochester, N. Y. Radiographic apparatus	630,406	Aug. 8	1312	292	88	992
Pugh, Erastus T., assignor of one-half to C. J. Hostrasser, Hearne, Tex. Box-fastener	633,327	Sept. 19	2148	503	88	2156
Pugh, John V., Leek Wootton, England. Brazeless joint for frames of cycles	621,282	Mar. 14	1388	307, 308	86	1783
Pugh, W. M. (See Crook, James E., assignor.)						
Pugh, William J., Muscatine, assignor of two-thirds to W. S. Hill and E. Horton, Muscatine county, Iowa. Button-making machine	624,377	May 2	782	175, 176	87	850
Pulfrich, Carl, assignor to Firm C. Zeiss, Jena, Germany. Terrestrial telescope	621,283	Mar. 14	1389	308	86	1784
Pullar, James. (See Griffin and Pullar.)						
Pullis, Augustus. (See Somerville and Pullis.)						
Pullman, Edward E. (See Payne and Pullman.)						
Pullman, John. (See Payne and Pullman.)						
Pullman's Palace Car Company. (See Frumveller, Joseph, assignor.)						
Pullman's Palace Car Company. (See Scott, George W., assignor.)						
Pulsifer, Llewellyn E., Paris, Me. Ash-sifter	632,280	Sept. 5	143	32	88	1735
Pulver, Frank F., assignor to H. H. Pulver, Rochester, N. Y. Vending-machine	625,803	May 30	3370	765	87	1435
Pulver, Henry H. (See Pulver, Frank F., assignor.)						
Pumphrey, Edward M., assignor of one-third to T. F. Smither, Indianapolis, Ind. Grain-saving attachment for feed-boxes	624,087	May 2	251	53	87	749
Punchard, John H. (See Darby, Henry, assignor.)						
Pungs, William A., *et al.* (See Bronner, Edmond D., assignor.)						
Pungs, William A., Detroit, Mich., assignor to American Brake Beam Company, Waukegan, Ill. Brake-beam	622,781	Apr. 11	1072	249	87	223
Purcell, Frank W., St. Paul, Minn. Voting-machine	620,610	Mar. 7	110	22	86	1524

Alphabetical list of patentees—Continued.

Name, residence, and invention	No.	Date.	Monthly volume.		Official Gazette.	
			Spec.	Drg.	Vol.	Page.
Purdue, John H., Richland, Kans. Revolving book support and holder	633,965	Sept. 26	3285	765	88	2393
Purdy, George H., Wittens, Ohio. Device for pumping oil-wells	617,770	Jan. 17	1728	388	86	375
Purdy, Walter, Somerset, Pa. Device for sharpening edged tools	630,106	Aug. 1	716	154	88	865
Purdy, William M., assignor to T. Mundorff, New York, N. Y. Eyeglass-case	636,176	Oct. 31	4169	957	89	884
Purinton, Arthur J., Waterbury, and J. R. Reynolds, Hartford, assignors to Monarch Manufacturing Company, Waterbury, Conn. System of stopping steam-engines	635,080	Oct. 17	2035	480	89	439
Purinton, Charles O., Hartford, Conn. Pottery and making thereof	617,299	Jan. 3	831	------	86	164
Purinton, Henry, *et al.* (See McCaffrey, Peter F., assignor.)						
Purman, James J. (See Smith, William E., assignor.)						
Purse, Daniel G., Jr. (See Daly, John P., assignor.)						
Purser, John, Northam, Western Australia. Double-action coupling attachment for railway rolling-stock	617,446	Jan. 10	1128	258	86	238
Purviance, Percy, Lincoln, Nebr. Acetylene-gas generator	623,624	Apr. 25	2627	599	87	560
Purvis, William B., Philadelphia, Pa. Cutter for roll-holders	630,267	Aug. 1	981	216	88	916
Purvis, William J., Moultrie, Ga. Nut-lock	626,093	May 30	3956	899	87	1544
Pusey & Jones Company. (See Hazard, Vincent G., assignor.)						
Pusey, Joshua, Middletown, Pa. Eyeleting-machine	626,722	June 13	922	209	87	1811
Pushaw, Charles P., Washington, D. C. Electric brake	623,625	Apr. 25	2628	600	87	561
Putman, John, Lovington, Ill. Rotary engine	632,848	Sept. 12	1217	{278 279	{88	1964
Putnam, Alanson H., Toronto, Canada. Dental spatula	625,354	May 23	2562	583	87	1259
Putnam, Bertrand T. (See Sawin and Putnam.)						
Putnam, Ed M., and W. Sellers, Haverhill, Mass. Trolley-wheel	632,849	Sept. 12	1220	279	88	1965
Putnam, Emmet P., and A. F. Maxfield, Abbeville, La. Plow	637,973	Nov. 28	3693	777	89	1755
Putnam, Franklin W., Binghamton, N. Y. Combined step and guard for carriages, &c	626,008	May 30	3794	863	87	1516
Putnam, George L., New York, N. Y. Magazine bolt-gun	623,960	Apr. 25	3257	749	87	681
Putnam, Harry M., Fitchburg, Mass. Die for rolling metal balls	618,584	Jan. 31	3291	730	86	703
Putnam, John P., Boston, Mass. Sewer-gas trap	625,899	May 30	3547	806	87	1468
Putnam Nail Company. (See Williams, Henry A., assignor.)						
Putnam, Salmon W. and Salmon W., Jr., Fitchburg, Mass. Metal-working machine	638,274	Dec. 5	134	31,32	89	1891
Putnam, William F., Cleveland, Ohio. Foot-shield for floors	634,956	Oct. 17	1784	424	89	387
Putt, Joseph A., Canton, Ohio. Incandescent vapor-burner	623,738	Apr. 25	2811	643	87	596
Puttkammer, Emil, Machipongo, Va. Potato-digger	629,920	Aug. 1	340	75	88	788
Putzeys, Joseph, Hougaerde, Belgium. Molding sugar	626,036	May 30	3859	------	87	1526
Pye, Frank, Philadelphia, Pa. Boiler feeder and purifier	634,272	Oct. 3	570	140	89	114
Pyle, George C., assignor of one-half to F. H. Ewers, Indianapolis, Ind. Rotary-engine governor	627,782	June 27	2919	{638 639	{87	2240
Pyle, George C., assignor of one-half to F. H. Ewers, Indianapolis, Ind. Electric-arc lamp	631,816	Aug. 29	3881	866	88	1547
Pyle, Harman J., Pueblo, Colo. Burglar-alarm	636,695	Nov. 7	841	187	89	1093
Pyle, Liza, Ross, Ky. Nut-lock washer	616,969	Jan. 3	193	45	86	38
Pyle, Liza, Ross, Ky. Nut-lock washer	629,818	Aug. 1	107	26	88	741
Pyles, Henrietta, Myrtle, Mo. Packing vessel	627,142	June 20	1713	376	87	1984
Pyott, James M., Jr., Chicago, Ill. Rack for cycles	619,344	Feb. 14	1017	229	86	1029
Pyott, Louis T., assignor to J. A. Brill, Philadelphia, Pa. Railway-car	618,480	Jan. 31	3095	685	86	665
Q & C Company. (See McCarthy, James, assignor.)						
Q & C Company. (See Moore, Moses M., assignor.)						
Q & C Company. (See Scott and Holmes, assignors.)						
Quackenbush, Retta R. (See Laird, Robert H., assignor.)						
Quackenbush, Tyler S., New York, N. Y. Gold-mining machine	629,466	July 25	2809	{652 653 654	{88	603
Quann, John H., *et al.* (See Taylor, Alfred, assignor.)						
Quann, William H., *et al.* (See Taylor, Alfred, assignor.)						
Quarles, Duncan M., Jr., Clarksville, Tenn. Fishing-reel	628,847	July 11	1685	{393 394	{88	349
Quast, Charles, Marion, Ohio. Gas-engine	624,975	May 16	1883	423	87	1106
Quayle, William, Denver, Colo. Lawn-sprinkler	630,468	Aug. 8	1439	321	88	1017
Queen, Daniel, Janelew, W. Va. Telephone attachment	639,768	Dec. 26	2930	674	89	2496
Queisser, Paul F. H., Charlottenburg, Germany, assignor to Siemens & Halske Electric Company of America, Chicago, Ill. Electric-arc lamp	629,603	July 25	3079	717	88	654
Quelch, William B., Croft, England. Railway signaling apparatus	627,655	June 27	2701	{592 593	{87	2197
Quentell, William P., New York, N. Y. Type-writing machine	624,864	May 9	1683	{381 382	{87	1050
Quentell, William P., New York, N. Y. Type-writing machine	624,865	May 9	1686	382	87	1050
Quesenberry, Henry C., Tazewell, Va. Rail-joint closer	637,827	Nov. 28	3424	716	89	1702
Quest, Francis E. (See Quest, William O. and F. E.)						
Quest, William O., Knoxville, and F. E. Quest, McKees Rocks, Pa. Spraying-machine	627,877	June 27	3092	677	87	2273
Quick, Grant, Plimpton, Ohio. Necktie-retainer	634,957	Oct. 17	1785	424	89	387
Quicke, James M., Jr., *et al.* (See Titus, James M., assignor.)						
Quigley, Jessamine, Hammond, Ind. Bust-form	638,400	Dec. 5	410	86	89	1944
Quigley, John H., Nobob, Ky. Churn	637,944	Nov. 28	3644	764	89	1746
Quigley, William F. (See Greer, Arthur, assignor.)						
Quimby, Asahel B., assignor of one-fourth to F. N. Stewart, Tracy, Minn. Guard for hose-couplings	618,905	Feb. 7	149	32,33	86	834
Quimby, Charles E., New York, N. Y. Device for preventing and removing fouling of ships' hulls	623,961	Apr. 25	3260	750	87	682
Quimby, Edward C., Minneapolis, Minn. Separable hinge for awning-blinds	634,369	Oct. 3	758	181	89	151
Quimby, Edward C., Minneapolis, Minn. Separable hinge for storm-sashes	634,370	Oct. 3	759	181	89	151
Quimby, Edward E., Orange, N. J., assignor, by mesne assignments, to National Tube Company, Pittsburg, Pa. Manufacturing tube-blanks	638,809	Dec. 12	1171	262	89	2115
Quimby, Edward E., Orange, N. J., assignor to National Tube Company, Pittsburg, Pa. Piercing-machine for making tube-blanks	638,810	Dec. 12	1173	{262 263	{89	2115
Quimby, William E. (See Clark and Quimby.)						
Quimby, William P., Gettysburg, Pa. Type-writing machine	619,260	Feb. 7	871	{191 192	{86	983
Quincy, Charles F. (See Magney, Joseph P., assignor.)						
Quincy Foundry and Novelty Company. (See Baker, Henry C., assignor.)						
Quincy, Josiah, trustee. (See Bélanger, Victor, assignor.)						
Quinlan, Alfred E., Sheboygan Falls, Wis. Tilting-chair	622,073	Mar. 28	2848	642	86	2094
Quinlan, Thomas, Cardiff, England. Ink-holder for pens	617,541	Jan. 10	1295	293	86	272
Quinn, Charles J., Scranton, Iowa. Fence	616,970	Jan. 3	194	45	86	38
Quinn, James, Jr. (See Horn and Quinn.)						
Quinn, John. (See Brown and Quinn.)						
Quinn, Martin, Denver, Colo. Bicycle	635,590	Oct. 24	3017	693	89	642

Alphabetical list of patentees—Continued.

Name, residence, and invention.	No.	Date.	Monthly volume. Spec.	Monthly volume. Drg.	Official Gazette. Vol.	Official Gazette. Page.
Quinn, William M., *et al.* (See Spencer, Oliver H. P. G., assignor.)						
Quinsler, George J., Brookline, and G. W. McNear, Auburndale, Mass. Rubber tire for carriage-wheels	628,284	July 4	624	148	88	120
Quinsler, George J., Brookline, and G. W. McNear, Auburndale, Mass. Hansom-cab	638,141	Nov. 28	4041	852	89	1823
Quintal, Dominat, Isle Dupas, Canada. Carriage-wheel hub	629,467	July 25	2814	654	88	605
Quirin, Emil J. F., Tioga Centre, N. Y. Method of and machine for expressing moisture from leather	619,614	Feb. 14	1480	338, 339	86	1117
Quortrup, August, New York, N. Y. Manifolding-book	621,462	Mar. 21	1714	380, 381	86	1859
Qurin, Ignaz, Cologne, Germany. Valve for vessels containing carbonic acid	633,217	Sept. 19	1927	453	88	2114
R. H. Kinnear Manufacturing Company. (See Martindale, John H., assignor.)						
R. & W. Jenkinson Company. (See Jenkinson, Alexander M., assignor.)						
R. Wallace & Sons Manufacturing Company. (See Allen, Charles E., assignor.)						
Raab, George, and D. Appel, assignors to J. Anisfield, Cleveland, Ohio. Coin-controlled vending-machine	636,841	Nov. 14	1160	251	89	1183
Raab, George, and L. S. Grossman, assignors, by mesne assignments, to G. W. Cleveland, trustee, Cleveland, Ohio. Filter	639,769	Dec. 26	2931	675	89	2496
Raasloff, Harald de, New York, N. Y. Extracting precious metals from ores	636,288	Nov. 7	113	------	89	945
Rabe, Henry, Thames, New Zealand. Automatic grip-brake	633,485	Sept. 19	2419	569	88	2208
Raber, Cyrus. (See Ives, Albert J., assignor.)						
Rabich, William. (See Kast and Rabich.)						
Rabideau, Edward J. (See McEachron, George, assignor.)						
Rabinowitz, David, Spring Valley, N. Y. Combination hat, coat, and umbrella holder	632,880	Sept. 12	1293	297	88	1976
Raby, Richard, assignor to himself, W. S. Cornman, T. O. Johnston, and J. Russ, Harrisburg, Pa. Folding lunch-box	626,563	June 6	622	143, 144	87	1735
Raby, Richard, assignor of three-fourths to J. Russ, W. S. Cornman, and T. O. Johnston, Harrisburg, Pa. Lunch-box	634,186	Oct. 3	373	95, 96	89	77
Raby, Zachariah, and W. T. Spear, Nashua, N. H., assignors to Draper Company, Hopedale, Mass., and Portland, Me. Pitman for looms	638,595	Dec. 5	770	167	89	2013
Radcliffe, Charles, Newark, N. J. Button	631,581	Aug. 22	3458	781	88	1456
Radcliffe, Frank A., Cleveland, Ohio. Overflow-trap	639,610	Dec. 19	2614	600	89	2415
Radcliffe, Frederick W., *et al.* (See Hemphill, Joshua D., assignor.)						
Radcliffe, Walter W., *et al.* (See Hemphill, Joshua D., assignor.)						
Rader, Edward B. and H. A., Coplay, Pa. Clay-screener	633,486	Sept. 19	2420	569	88	2209
Rader, Henry A. (See Rader, Edward B. and H. A.)						
Radermacher, Walter, London, England. Saddle for velocipedes	633,487	Sept. 19	2421	570	88	2209
Raders, Joseph F., assignor of one-half to E. N. Dickerson, New York, N. Y. Motor-bicycle	626,440	June 6	416	99	87	1694
Radford, Frank, assignor of one-half to E. C. Bower, Dayton, Ohio. Mower-knife-grinding machine	625,414	May 23	2657	604	87	1278
Radke, Fredrick M., New York, N. Y. Steam-heater	628,848	July 11	1691	394	88	350
Radley, William, Sandwich, Ill. Reamer	629,171	July 18	2281	530, 531	88	481
Rae, Frank B., Chicago, Ill. Electric-motor-controlling system	638,522	Dec. 5	638	132	89	1988
Rafferty, Michael W., *et al.* (See Wilson, Theodore M., assignor.)						
Rafter, John A., *et al.* (See Merrill, Frank W., assignor.)						
Ragot, Gaston, and T. Berlize, Brussels, Belgium. Bottle or other vessel	637,415	Nov. 21	2305	497	89	1422
Ragsdale, George, Topeka, Kans. Burner	631,878	Aug. 29	3987	891	88	1568
Raiche, Denis M. (See Robinson, Emerson, and Carlson, assignors.)						
Railsback, Lafayette D., Indianapolis, Ind. Ice-cream freezer	631,817	Aug. 29	3882	866, 867	88	1547
Railton, John. (See McSpadden and Railton.)						
Railway Switch and Crossing Company. (See Martin and Price-Williams, assignors.)						
Raines, Ada E. (See Backer, Charles, assignor.)						
Rainforth, Henry S., Lincoln, England. Brazeless joint for cycle-frames	622,537	Apr. 4	641	150	87	122
Rainwater, Fountain, Waterloo, Ky. Screw-driver	617,046	Jan. 3	369	90	86	71
Rairigh, William K., Kittanning, Pa. Sliding door	618,617	Jan. 31	3343	743, 744	86	712
Raisbeck, James J., New York, N. Y., and T. A. Raisbeck, Bloomfield, N. J. Apparatus for cleaning plates	621,539	Mar. 21	1856	412	86	1885
Raisbeck, Thomas A. (See Raisbeck, James J. and T. A.)						
Raitz, Feodor von, assignor to M. von Raitz, New York, N. Y. Medical tampon	639,864	Dec. 26	3096	712	89	2528
Raitz, Minnie von. (See Raitz, Feodor, von, assignor.)						
Rakestraw, Robert R., Vienna, Austria-Hungary. Pencil	620,051	Feb. 21	2307	524	86	1300
Rakus, Leo, assignor of two-thirds to A. Mihatsch and A. Luttnar, Mährisch, Austria-Hungary. Apparatus for making wheels for vehicles	617,047	Jan. 3	371	90	86	71
Raky, Anton, Rupprechtsau, Germany. Boring apparatus for deep borings	619,907	Feb. 21	2053	466	86	1254
Ralli Brothers. (See Daroovala, Manchershah D., assignor.)						
Ralston, David, assignor of two-thirds to J. M. and E. M. Ralston, Asbury Park, N. J. Apparatus for transplanting trees	636,842	Nov. 14	1163	251, 252	89	1184
Ralston, Edwin N., *et al.* (See Ralston, David, assignor.)						
Ralston, James M., *et al.* (See Ralston, David, assignor.)						
Ramage, Alexander S., Cleveland, Ohio. Process of and apparatus for making copperas	640,026	Dec. 26	3384	776	89	2587
Ramage, Alexander S., assignor to Continental Chemical Company, Cleveland, Ohio. Obtaining iron oxids	635,389	Oct. 24	2629	607	89	568
Ramberg, Carl E. (See Finsrud and Ramberg.)						
Ramey, John, and C. Mitschow, Buffalo, N. Y. Brake-handle cover	619,223	Feb. 7	803	175	86	969
Ramie Company. (See Price, Albert, assignor.)						
Rammoser, Albert, Berlin, Germany. Self-igniting gas-burner	633,273	Sept. 19	2029	477	88	2133
Rampe, Frank B. (See Kendrick, Matthew B., assignor.)						
Ramsay, Erskine. (See Shook, Barton, Shannon, Dunn, and Ramsay.)						
Ramsay, Erskine, Birmingham, Ala. Casting-machine	620,494	Feb. 28	3061	700, 701	86	1459
Ramsay, Frederick E., Walsenburg, Colo. Electric-current regulator	628,849	July 11	1692	395	88	350
Ramsay, James, Cleveland, Ohio. Bicycle-bell	638,420	Dec. 5	448	93	89	1951
Ramsay, William W., Bassfield, Miss. Fence-repairing tool	633,155	Sept. 19	1804	424	88	2088
Ramsden, James. (See Ramsden, Taylor, and Ramsden.)						
Ramsden, Joe, A. Taylor, and E. Firth, Batley, England. Self-acting mule	617,048	Jan. 3	372	90, 91	86	71
Ramsden, Joe, A. T. Taylor, and J. Ramsden, Birstall, England. Self-acting mule	626,094	May 30	3957	899	87	1545
Ramseaur, William S., Jr., assignor of one-half to F. H. Wolfe, Monroe, N. C. Clamp	620,495	Feb. 28	3066	701	86	1460
Ramsey, Charles. (See Wildnig, John, assignor.)						
Ramsey, David R., New Haven, Pa. Pipe-wrench	635,806	Oct. 31	3428	791	89	737
Ramsey, Jacob E., assignor of one-half to J. Whealdon, Oakesdale, Wash. Plumb-level	636,843	Nov. 14	1164	252	89	1184
Ramsey, James A., assignor to Crane & Company, Topeka, Kans. Copy-book and cover	626,441	June 6	418	99	87	1694
Ramsey, James W. (See Bryan, Dempsey T., assignor.)						
Ramsey, John N., Lebanon, N. J. Peach-basket	627,204	June 20	1819	398	87	2005
Ramsey, Ole M. J., Ellinger, Tex. Cushion-tire	621,504	Mar. 21	1788	398	86	1871

Alphabetical list of patentees—Continued.

Name, residence, and invention.	No.	Date.	Monthly volume. Spec.	Monthly volume. Dr'g.	Official Gazette. Vol.	Official Gazette. Page.
Ramsey, W. J. (See Skinner, Orson F., assignor.)						
Rand, Charles A. A., assignor to Deering Harvester Company, Chicago, Ill. Knotting device for grain-binders	629,522	July 25	2942	684, 685	88	628
Rand, Charles A. A., assignor to Deering Harvester Company, Chicago, Ill. Driving-gearing	636,289	Nov. 7	114	25	89	945
Rand Drill Company. (See Ambrose, Robert L., assignor.)						
Rand Drill Company. (See Conrad, Hugh V., assignor.)						
Rand Drill Company. (See Conrad and Ambrose, assignors.)						
Rand, Franklin P., Providence, R. I. Device for weighting rolls in textile or analogous machines	632,947	Sept. 12	1398	323	88	1997
Rand, George D. (See Sieben, Henry, assignor.)						
Randall, Abel P. (See Randall, Phineas M., Jr., assignor.)						
Randall, Calvin L. (See Gilbert, Henry K., assignor.)						
Randall, Finelle K., Sparta, Wis. Shelf attachment for ladders	639,611	Dec. 19	2615	601	89	2416
Randall, Harry E. (See Christy and Randall.)						
Randall, Horace N., Tracy, Minn. Corn-planter	619,345	Feb. 14	1019	230	86	1029
Randall, Phineas M., Jr., assignor of one-half to A. P. Randall, Westerly, R. I. Printing-press	618,186	Jan. 24	2559	566	86	549
Randall, William H., Evansville, Ind. Water-filter	636,356	Nov. 7	216	47	89	964
Randell, Edward H., Denver, Colo. Thread-cutting sewing-thimble	624,088	May 2	252	53	87	750
Randleman, Martin C. (See Randleman, Zouave S. and M. C.)						
Randleman, Zouave S. and M. C., Carlisle, Iowa. Washing-machine	636,556	Nov. 7	572	127	89	1037
Randles, George E., assignor to Pratt & Whitney Company, Hartford, Conn. Screw-machine	627,529	June 27	2451	539	87	2147
Randolph, Albert C. (See Randolph, William J. and A. C.)						
Randolph, Coleman L. (See England and Randolph.)						
Randolph, Edmund, Jacksonville, Fla. Faucet	632,747	Sept. 12	1027	238	88	1924
Randolph, William J. and A. C., Jennings, La. Pneumatic straw-stacker	617,352	Jan. 10	946	218	86	204
Randolph, William W., New Rochelle, N. Y. Spraying-nozzle	625,466	May 23	2747	625	87	1294
Rands, Harold A., Forest Grove, Oreg. Threshing-machine	624,378	May 2	784	176, 177	87	851
Rauk, Harry W., McDonald, Pa. Jar for well-drilling tools	631,177	Aug. 15	2696	610	88	1286
Rankin, Frank N., Gainesville, Tex. Hame-fastener	631,669	Aug. 22	3594	810	88	1484
Ranking, George S. A., Calcutta, India. Boat lowering and detaching apparatus	640,027	Dec. 26	3386	776	89	2588
Rankin, Matthew. (See Rankin, William, assignor.)						
Rankin, Robert G. (See Park, William R., assignor.)						
Rankin, Samuel, and C. E. Storm, Strasburg, Ill. Baling-press	623,826	Apr. 25	3004	688, 689, 690	87	634
Rankin, Thomas, and J. J. Busenbenz, assignors to Chicago Building and Manufacturing Company, Chicago, Ill. Roller for roller-skates	622,391	Apr. 4	324	74	87	61
Rankin, William, assignor of one-third to M. Rankin, Chicago, Ill. Propelling mechanism for boats	625,059	May 16	2023	455, 456	87	1133
Rankine, James E., Elk Rapids, Mich. Draft-indicator for locomotives	632,203	Aug. 29	4596	1036	88	1687
Ranney, Fred E., Greenville, Mich. Refrigerator	624,089	May 2	252	53, 54	87	750
Ranney, Fred E., Greenville, Mich. Refrigerator	624,090	May 2	255	54	87	750
Ransom, Newman A., and J. Frueh, Chicago, Ill. Atomizing kerosene-burner	624,682	May 9	1339	299	87	982
Ransom & Randolph Company. (See Bigelow, Chauncey S., assignor.)						
Ranson, Charles, Paris, France. Decolorizing and purifying sugar juice or syrup	623,105	Apr. 11	1676	------	87	340
Ranson, Georges, Montmorency, France, assignor to Ranson's Sugar Process, Limited, London, England. Decolorizing and purifying sugar juice or syrup	623,106	Apr. 11	1677	388	87	340
Ranson's Sugar Process. (See Ranson, Georges, assignor.)						
Rantala, August, Navarro, Cal. Knife or fork cleaner	637,974	Nov. 28	3694	777	89	1756
Ranz, Jacob, St. Louis, Mo. Coupon cutting and dating machine	621,704	Mar. 21	2152	479, 480	86	1945
Ranzini, Carlo. (See Demaria and Ranzini.)						
Rape, William E. (See Broyles, Robert E., assignor.)						
Raphael, Henry J. W., and J. West, London, England. Oil-lamp	621,712	Mar. 21	2164	482	86	1947
Rapid Stone Saw Company. (See Chandler, Howard L., assignor.)						
Rapley, Frederick H., assignor to Fox Pressed Steel Equipment Company, New York, N. Y. Rail-chair	638,760	Dec. 12	1084	242	89	2099
Rapley, Frederick H., assignor to Fox Pressed Steel Equipment Company, New York, N. Y. Truck-bolster	639,184	Dec. 12	1806	418	89	2239
Rapp, John H., Fort Apache, Ariz. Ter. Car safety-ladder	636,177	Oct. 31	4170	957	88	884
Rapp, John W., New York, N. Y. Partition-support	631,940	Aug. 29	4089	917	88	1588
Rapp, John W., New York, N. Y. Floor construction	631,941	Aug. 29	4090	917	88	1588
Rapp, Nathaniel and R., Jr., assignors of one-half to W. B. Dennee and R. A. Brachvogel, Detroit, Mich. Mechanical movement and bicycle-gear	617,447	Jan. 10	1130	258	86	238
Rapp, Russell, Jr. (See Rapp, Nathaniel and R., Jr.)						
Rappe, Emil, Chicago, Ill. Gas-engine	637,975	Nov. 28	3696	777, 778, 779	89	1756
Rappleye, Hannibal W., Philadelphia, Pa. Preserving fish, &c	626,771	June 13	1009	227	87	1828
Raps, August, Berlin, Germany, assignor to Siemens & Halske Electric Company of America, Chicago, Ill. Electrical speed-indicator	627,530	June 27	2454	540	87	2148
Rarig, Weldon C., San Francisco, Cal. Box fastener and seal	629,523	July 25	2945	685	88	629
Rasco, Levi, Whitinsville, Mass. Sink or basin trap	623,626	Apr. 25	2630	600	87	561
Rasley, Huie M., Letts, Iowa. Antirattling thill-coupling	629,172	July 18	2283	531	88	481
Rasmussen, Alfred W., assignor to E. L. Krag, Chicago, Ill. Temporary binder	623,627	Apr. 25	2631	601	87	561
Rasmussen, Andreas, Cobram, Victoria. Water-velocipede	619,224	Feb. 7	804	175	86	970
Rasmussen, Charles B. H. (See Rasmussen, Julius A. N. and C. B. H.)						
Rasmussen, Heinrich, Lund, Sweden. Liquid-level indicator	628,353	July 4	760	175	88	146
Rasmussen, Julius A. N. and C. B. H., Copenhagen, Denmark. Driving-gear for bicycles	621,136	Mar. 14	1137	246	86	1733
Rasmussen, Niels J., Neola, Kans. Wire-tightener	626,931	June 13	1347	296	87	1893
Rasmussen, Rasmus, Oregon, Wis. Support for agricultural tools	635,591	Oct. 24	3019	693	89	642
Rasmusson, Charles E. (See Walker and Rasmusson.)						
Rasner, Abraham, Pittsburg, Pa. Metallic frame and sash	620,669	Mar. 7	237	49	86	1548
Rasnick, Noah W., Palace, assignor of one-fifth to J. F. McCoy, Tuscola, Va. Hair-fastener	621,705	Mar. 21	2156	480	86	1946
Raso, Dante, Livingston, Mont. Flue-cleaner for boilers	620,670	Mar. 7	238	49	86	1548
Rassinier, Eugène G., Paris, France. Liquid-carbonic-acid motive power for vehicles	617,049	Jan. 3	375	91	86	72
Ratchford, Nicholas, Greenville, Ohio. Wire-compensator and railway-signal	634,273	Oct. 3	572	141	89	114
Ratcliff, John W., Webbville, Ky. Cultivator	616,971	Jan. 3	196	45	86	39
Ratcliffe, William E. (See Huggins, Ulysses S., assignor.)						
Ratekin, James M., *et al.* (See Stuart, Ithamer W., assignor.)						
Rath, Charles, New York, N. Y. Composition of matter	619,615	Feb. 14	1483	------	86	1117

Alphabetical list of patentees—Continued.

Name, residence, and invention.	No.	Date.	Monthly volume. Spec.	Monthly volume. Drg.	Official Gazette. Vol.	Official Gazette. Page.
Rath, John W., *et al.* (See Lehmann, Henry C., assignor.)						
Rathbun, John H., Milwaukee, Wis. Bicycle crank and bearing	630,072	Aug. 1	662	142	88	854
Rathfon, Samuel B. (See Mayotte, Philis, assignor.)						
Rathier, Henri, Paris, France. Forming electrodes for secondary or storage batteries	633,249	Sept. 19	1985	465	88	2125
Rathvon, William R., Florence, Colo. Desk attachment	628,850	July 11	1694	395	88	350
Ratliff, John D., Muncie, Ind. Door-bell	632,824	Sept. 12	1177	269	88	1956
Rau, Emanuel, assignor to H. Torchiani, New York, N. Y. Machine for pitching barrels	617,185	Jan. 3	615	144	86	120
Raub, Joseph M. (See Spoore, Ransom R., assignor.)						
Rauch, Andrew L., Moscow, Idaho. Pen-rack	622,864	Apr. 11	1223	285	87	251
Raudabaugh, William A. (See Kriegbaum and Raudabaugh.)						
Rauhoff, John M., assignor of nine-twentieths to E. Troyer, Chicago, Ill. Soap holder and distributer	635,592	Oct. 24	3021	693	89	643
Raunacher, Gustav, Vienna, assignor of one-half to G. Greenham, Triest, Austria-Hungary. Lightning-conductor	623,033	Apr. 11	1528	354	87	312
Rausheck, John E., assignor of one-half to J. E. Ellington, Queen City, Tex. Cultivator	618,292	Jan. 24	2740	607	86	583
Ravel, Louis de, Marseilles, France. Apparatus for generating acetylene gas	619,024	Feb. 7	436	91	86	894
Ravenèz, Louis W., assignor to Société Nouvelle des Établissements, Decauville Aîné, Paris, France. Carbureter	620,496	Feb. 28	3068	701	86	1460
Raverot, Emile, and P. Belly, Paris, France. Transmitting movement to a distance by electromagnetic mechanism	626,009	May 30	3796	863, 864	87	1517
Ravesies, Frank C., *et al.* (See Houston, George W., assignor.)						
Rawalt, Warren. (See Jared, Gilbert, assignor.)						
Rawe, William H., Pawtucket, R. I. Combined carriage-washing and automatic water-level-regulating device	630,740	Aug. 8	1906	430	88	1107
Rawley, William, *et al.* (See Goode, Frank R., assignor.)						
Rawling, William J., Adelaide, South Australia. Hand-pump for extracting kerosene or other liquids from tins	618,728	Jan. 31	3545	792	86	752
Rawlins, George, Golden Hill, England. Faucet or tap	629,304	July 18	2502	583	88	521
Rawson Electric Company. (See Rawson, Samuel B., assignor.)						
Rawson, Manly S., Jamaica, Vt. Stone boat or sled	619,992	Feb. 21	2195	499	86	1279
Rawson & Morrison Manufacturing Company. (See Norris, Almon E., assignor.)						
Rawson & Morrison Manufacturing Company. (See Wern, Gustaf P., assignor.)						
Rawson, Samuel B., assignor to Rawson Electric Company, Elyria, Ohio. Telephone-switch	638,471	Dec. 5	549	113, 114	89	1972
Ray, Charles A., Bridgewater, S. D. Thill for vehicles	639,612	Dec. 19	2616	601	89	2416
Ray, Ernest P., assignor of one-half to J. F. Vinal, Washington, D. C., and E. B. Clark, Chevy Chase, Md. Chair-supporting device	620,078	Feb. 21	2347	532	86	1308
Ray, Francis B., assignor of one-half to O. S. Brandt, New York, N. Y. Bicycle-saddle	634,910	Oct. 17	1710	404	89	373
Ray, Frank D., B. P. Walters, and E. S. Perkins, Belvidere, Ill. Non-refillable bottle	630,929	Aug. 15	2241	511	88	1198
Ray, George. (See Couture, Eusebe P., assignor.)						
Ray, Guy L., and W. Peak, assignors of one-fourth to J. T. Allison, Ouray, Colo. Wrench	635,593	Oct. 24	3022	694	89	643
Ray, Jeremiah P. (See Blake and Ray.)						
Ray, Joseph, Emery, Ill. Fireproof structure	629,468	July 25	2816	654	88	605
Ray, Leonard S. (See Friend and Ray.)						
Ray, Miles H., East Providence, and W. H. Paine, Providence, R. I. Apparatus for inflating bicycle-tires	634,958	Oct. 17	1786	424, 425	89	387
Ray, Samuel W. (See Conibear and Ray.)						
Ray, William S., San Francisco, Cal. Folding camp-stove	617,122	Jan. 3	505	121	86	99
Raycraft, Arthur G., Carson, Nev. Ruling-pen	633,660	Sept. 26	2758	641	88	2288
Rayl, Samuel G., Tunis, Iowa. Cover for hay-stacks	637,159	Nov. 14	1800	386	89	1306
Rayl, William, Independence, Kans. Holder for lamp-chimney cleaners	630,107	Aug. 1	718	155	88	866
Raymond, Albert, Chicago, Ill. Separator	629,604	July 25	3081	717	88	655
Raymond, Anthony. (See Garnier, Edmond, assignor.)						
Raymond Button Company. (See Ketchum, Oliver W., assignor.)						
Raymond Button Company. (See Ketchum and Varney, assignors.)						
Raymond, Charles H., Worcester, Mass., and G. W. Beal, New York, N. Y., assignors to said Raymond, G. A. Park, G. S. Davis, and R. J. Tatman, Worcester, Mass. Brush	632,748	Sept. 12	1029	238	88	1925
Raymond, Frank H. (See Beman and Raymond.)						
Raymond, Frederic C., New York, N. Y. Garment-supporter	639,287	Dec. 19	2015	465	89	2295
Raymond, Frederick, Sedalia, Mo. Cartridge-loading machine	629,393	July 25	2680	625	88	578
Raymond, Freeborn F., 2d, Newton, assignor to J. W. Brooks, Petersham, and J. Brooks, Cambridge, Mass., trustees. Heel-attaching machine	619,707	Feb. 14	1666	382, 383, 384	86	1152
Raymond, Freeborn F., 2d, Newton, Mass., assignor, by mesne assignments, to McKay Shoe Machinery Company, of Maine. Heel-nailing machine	624,538	May 9	1096	246, 247	87	934
Raymond, Freeborn F., 2d, Newton, Mass., assignor, by mesne assignments, to McKay Shoe Machinery Company, of Maine. Heel-attaching machine	624,539	May 9	1099	247, 248, 249	87	935
Raymond, Freeborn F., 2d, Newton, Mass., assignor, by mesne assignments, to McKay Shoe Machinery Company, of Maine. Heel-compressing machine	631,029	Aug. 15	2436	552, 553	88	1235
Raymond, Freeborn F., 2d, Newton, Mass., assignor, by mesne assignments, to McKay Shoe Machinery Company, of Maine. Heel-compressing machine	637,216	Nov. 14	1919	411	89	1329
Raymond, George E. (See Raymond, Silas H., assignor.)						
Raymond, John C., New York, N. Y. Bicycle	627,351	June 20	2099	464	87	2062
Raymond, John C., Keyport, N. J. Harness	627,352	June 20	2103	464	87	2063
Raymond, John W., assignor to Standard Automatic Gas Engine Company, Oil City, Pa. Electric starting device for gas-engines	634,541	Oct. 10	1070	255	89	231
Raymond, John W., Buffalo, N. Y., assignor, by mesne assignments, to Standard Automatic Gas Engine Company, Oil City, Pa. Gas-engine	636,451	Nov. 7	369	83	89	995
Raymond, John W., assignor to Standard Automatic Gas Engine Company, Oil City, Pa. Starting device for gas-engines	636,452	Nov. 7	373	84	89	996
Raymond, John W., assignor to Standard Automatic Gas Engine Company, Oil City, Pa. Electric igniter for gas-engines	636,453	Nov. 7	375	84	89	997
Raymond, Silas H., assignor of one-fourth to G. E. Raymond, Grand Rapids, Mich. Caster	627,012	June 13	1495	327	87	1923
Raynor, Philo W., Findlay, Ohio. Piano-truck	616,972	Jan. 3	197	45	86	39
Razall, Henry G., Milwaukee, Wis. Leaf for books	631,127	Aug. 15	2614	591	88	1270
Read, Frank B., New York, N. Y. Cover	628,354	July 4	761	176	88	147
Read, George F., assignor to R. Hoe, T. H. Mead, and C. W. Carpenter, New York, N. Y. Bed-motion for traveling beds	635,978	Oct. 31	3766	869	89	801
Read, George F., assignor to R. Hoe, T. H. Mead, and C. W. Carpenter, New York, N. Y. Winding mechanism	635,979	Oct. 31	3768	870	89	802
Read, George F., assignor to R. Hoe, T. H. Mead, and C. W. Carpenter, New York, N. Y. Delivery mechanism for printing-presses	639,770	Dec. 26	2933	675	89	2496
Read, Harry V. R., London, England. Means or apparatus for aerating water in bottles	620,963	Mar. 14	803	177	86	1670

Alphabetical list of patentees—Continued.

Name, residence, and invention.	No.	Date.	Monthly volume. Spec.	Monthly volume. Dr'g.	Official Gazette. Vol.	Official Gazette. Page.
Read Holliday & Sons. (See Holliday, Read, assignor.)						
Read, Jacob L., Philadelphia, Pa. Ledger balance-indicator	621,583	Mar. 21	1927	431	86	1899
Read, Jerome C., *et al.* (See Riley, Peter J., assignor.)						
Read, Mamie G., assignor of two-thirds to J. W. and E. V. Eisenhuth, New York, N. Y. Chain-inclosure	633,534	Sept. 19	2497	587 588	88	2223
Read, Silas W. (See Davis and Cornelius, assignors.)						
Read, Stacey G., Bridgeport, Conn. Detachable connection for electric fixtures	633,039	Sept. 12	1555	362	88	2028
Read, Theodore F., *et al.* (See Askins, Joseph, assignor.)						
Read, Walter C., Oakland, Cal., assignor to W. D. White, New York, N. Y., and G. C. Maguire, Newark, N. J. Block-holder for brush-machines	623,560	Apr. 25	2513	576 577	87	540
Reading Hardware Company. (See Adams, William T., assignor.)						
Reading Stove Works, Orr, Painter & Co. (See Kline, John A., assignor.)						
Reading Stove Works, Orr, Painter & Co. (See Shick, William H., assignor.)						
Ready, Mary. (See Anderson, Kate B., assignor.)						
Reagan, Harry C., Jr., Philadelphia, Pa. Electric railway	621,848	Mar. 28	2434	543	86	2013
Reagan, James, Philadelphia, Pa. Chopper or agitator for shaking-grates. (Reissue)	11,725	Mar. 14	1450	321	86	1795
Reagan, James, Philadelphia, Pa. Grate	635,807	Oct. 31	3429	791	89	737
Reagan, James, Philadelphia, Pa. Grate-bar	635,808	Oct. 31	3430	792	89	737
Reagan, John T. (See Moriarty, Thomas J., assignor.)						
Ream, George W., assignor to Bucher & Gibbs Plow Company, Canton, Ohio. Plow	625,355	May 23	2563	583	87	1259
Reama, Washington H., assignor to Springfield Silver Plate Company, Springfield, Ohio. Casket-truck	621,284	Mar. 14	1391	309	86	1784
Reamer, Edson R., Amsterdam, N. Y. Thill-iron	626,564	June 6	623	144	87	1735
Reamer, William S., Oswego, Kans. Washing-machine	624,540	May 9	1103	249	87	936
Reams, Joseph A., and C. H. Smith, assignors to Richmond Cedar Works, Richmond, Va. Reversing mechanism for washing-machines	637,895	Nov. 28	3565	746 747	89	1731
Reardon, John. (See Moran and Reardon.)						
Reardon, Patrick H. (See Smyth and Reardon.)						
Reardon, Patrick H., San Francisco, Cal. Valve	638,142	Nov. 28	4042	852	89	1823
Reardon, Patrick H., San Francisco, Cal. Attachment for rock-drills	638,938	Dec. 12	1391	318	89	2158
Rearick, Charles B., Warren, Pa. Steam-boiler	639,907	Dec. 26	3168	730	89	2542
Reaser, Lewis, Reading, Pa. Damper-regulator	619,993	Feb. 21	2196	499	86	1279
Reaume, Denis J., Detroit, Mich. Combined tap-coupling and valve	628,285	July 4	624	148	88	120
Reavey, John W., Strafford, Pa. Child's combined casket-pall and embalming-table	622,710	Apr. 11	958	221	87	202
Reber, James C. (See Keiper, Henry B., assignor.)						
Reber, James C., Reading, and W. I. Grubb, Pottstown, Pa. Back-pedaling brake	625,415	May 23	2660	605	87	1278
Reber, John G., Chicago, Ill. Paper vessel	635,350	Oct. 24	2526	587	89	547
Reber, John G., Chicago, Ill., assignor to J. W. Sefton Manufacturing Company, Chicago, Ill., and Anderson, Ind. Paper vessel	635,349	Oct. 24	2524	587	89	546
Rechter, Francois de, and G., Brussels, Belgium. Apparatus for preserving organic material	626,772	June 13	1011	228	87	1828
Rechter, Gustave de. (See Rechter, Francois and G.)						
Reck, Anders B., Copenhagen, Denmark. Smoke-consuming furnace	627,143	June 20	1713	376	87	1984
Recker, Henry, assignor of one-half to W. H. Marks, York, Pa. Fire-lighter	619,261	Feb. 7	874	192	86	983
Reckhart, George F. (See Fox, George, 2d, assignor.)						
Red Cross Hygienic Company. (See Walz, Charles J., assignor.)						
Redding, Thomas, Seattle, Wash. Apparatus for utilizing wave-power	631,178	Aug. 15	2697	610	88	1287
Redfern, Joseph, Wilmerding, Pa. Train-pipe coupling	629,469	July 25	2817	655	88	605
Redfield, M. H., *et al.* (See Pitt, William, assignor.)						
Redick, Robert J., St. Louis, Mo. Roofing fabric	624,976	May 16	1887	423	87	1107
Redick, Robert J., St. Louis, Mo. Roofing fabric	632,825	Sept. 12	1179	270	88	1957
Redington, A. H., *et al.* (See Kaufman, Jacob H., assignor.)						
Redington, William H., Chicago, Ill. Mucilage-holder	625,517	May 23	2837	646	87	1313
Redlich, Otto H., Jr., *et al.* (See Schliesewsky, Eduard, assignor.)						
Redlich, Rudolph, *et al.* (See Schliesewsky, Eduard, assignor.)						
Redmond, Edward, Perry, Mich. Wire-coiling device	617,353	Jan. 10	949	218	86	204
Redpath, Walter, assignor of one-half to A. H. Reid, Toronto, Canada. Smoke-consumer	623,426	Apr. 18	2270	520	87	474
Rée, Alfred. (See Claus, Rée, and Marchlewski.)						
Reece, Joseph A., Washington, D. C. Bicycle-skate	619,225	Feb. 7	806	175	86	970
Reed, Albert S., assignor to Onward Company, Chicago, Ill. Hub for vehicles	622,635	Apr. 4	805	187	87	153
Reed & Barton Corporation. (See McAusland, William, assignor.)						
Reed, Charles E., Elmwood, Ill. Attachment for bass-drums	633,488	Sept. 19	2423	570	88	2209
Reed, Charles J. (See Peregrine, Seymour W., assignor.)						
Reed, Charles J., Philadelphia, Pa. Method of and means for operating electric motors	621,285	Mar. 14	1392	309 310	86	1784
Reed, Charles J., Philadelphia, Pa. Method of and means for operating electric motors	622,392	Apr. 4	325	75	87	62
Reed, Charles J., Philadelphia, Pa., assignor to Security Investment Company, of Pennsylvania. Secondary battery or accumulator	638,472	Dec. 5	552	114	89	1972
Reed, Cullin W., Oakley, Mich. Plow	621,943	Mar. 28	2618	590	86	2048
Reed, Cullin W., Owosso, Mich. Plow	626,095	May 30	3962	900	87	1545
Reed, Cullin W., Owosso, Mich. Reversible plow	627,878	June 27	3094	677	87	2273
Reed, Cullin W., Owosso, Mich. Reversible plow	627,879	June 27	3096	678	87	2274
Reed, Edward, *et al.* (See Hermance, Robert, assignor.)						
Reed, Francis B., Lowell, Mass. Linotype-machine	618,618	Jan. 31	3346	744	86	713
Reed, Frederick R., Berkeley Springs, W. Va. Sand washer, drainer, and elevator	633,040	Sept. 12	1557	362	88	2028
Reed, George F., Waldo, Fla. Motor-vehicle	637,665	Nov. 21	3124	648	89	1621
Reed, George J., *et al.* (See Freed, Henry F., assignor.)						
Reed, George L. (See Harwood, Leedle, and Reed.)						
Reed, George T. (See Wheatfield and Reed.)						
Reed, George T., and J. Wheatfield, Baltimore, Md., assignors to National Tool and Stamping Company of Baltimore City, of Maryland. Garment-fastener	637,283	Nov. 21	2041	438	89	1368
Reed, George W., Lafayette, Ind. Wagon-body	633,905	Sept. 26	3179	739 740	88	2373
Reed, James D. S., Chicago, Ill. Electric heater	622,166	Mar. 28	3035	687	86	2132
Reed, James H., Williamsport, Pa. Draft-damper for stoves	617,354	Jan. 10	950	219	86	204
Reed, John A., Morvin, Ala. Velocipede driving-gear	617,603	Jan. 10	1414	321	86	293
Reed, John A., Morvin, Ala. Bicycle-frame	617,604	Jan. 10	1415	321	86	294
Reed, John U., *et al.* (See Prior, George A., assignor.)						
Reed, Joseph O., assignor of one-half to T. G. Alvord, Washington, D. C. Liquid-distributing device	617,355	Jan. 10	951	219	86	205
Reed, Lyman C., assignor to W. B. Reed, New Orleans, La. Recording mechanism for fluid-measuring meters	635,594	Oct. 24	3023	694	89	643
Reed & Prince Manufacturing Company. (See Ames, William L., assignor.)						
Reed, R. C., *et al.* (See Kenney, Augustine, assignor.)						
Reed, Sextus L., Gallatin, assignor of two-thirds to R. E. Brittain and E. E. Duncan, South Pittsburg, Tenn. Nail-forming machine	625,804	May 30	3373	765 766	87	1435

Alphabetical list of patentees—Continued.

Name, residence, and invention.	No.	Date.	Monthly volume. Spec.	Monthly volume. Drg.	Official Gazette. Vol.	Official Gazette. Page.
Reed, Warren B. (See Reed, Lyman C., assignor.)						
Reed, William, New York, N. Y. Tide-power	618,729	Jan. 31	3547	792	86	753
Reed, William F., and W. O. S. Piper, Bellaire, Ohio. Pipe-joint and hose-coupling	626,932	June 13	1348	296	87	1893
Reed, William G. C., London, England. Speed-indicator for velocipedes, &c	636,844	Nov. 14	1166	252, 253	89	1185
Reed, William S., Leominster, Mass., assignor to American Automatic Banjo Company, of New Jersey. Device for stringed musical instruments	628,851	July 11	1695	395, 396	88	351
Reed, William T., Portsmouth, Va. Jack	637,945	Nov. 28	3645	765	89	1746
Reed, William W. G., Los Angeles, Cal. Feather-renovator	618,481	Jan. 31	3096	686	86	666
Reeder, Andrew H., Uniontown, Pa. Single-expansion plunger pumping-engine	625,900	May 30	3551	806	87	1469
Reeder, Clinton V. B., Evergreen, Cal. Bottle-stopper retainer and extractor	622,074	Mar. 28	2850	642	86	2094
Reeder, Clinton V. B., San José, Cal. Office-indicator	634,628	Oct. 10	1217	289	89	259
Reeder, Frank S., Indianapolis, Ind. Excavator	639,934	Dec. 26	3220	738, 739	89	2553
Reedy, John T., *et al.* (See Hone, Henry, assignor.)						
Reedy, William I., *et al.* (See Hone, Henry, assignor.)						
Reeds, Lucian B., Crutchfield, Ky. Combined drag and land-leveler	621,584	Mar. 21	1928	431	86	1899
Reel, John, French Camp, Miss. Harness	633,041	Sept. 12	1557	362	88	2028
Reenstierna, Gustaf L., assignor to W. F. Beal, Boston, Mass. Sliding-door fastener	622,167	Mar. 28	3037	687	86	2132
Reenstierna, Gustaf L., Boston, Mass., assignor to Reenstierna Manufacturing Company, Providence, R. I. Tag	626,191	May 30	4178	950	87	1585
Reenstierna Manufacturing Company. (See Reenstierna, Gustaf L., assignor.)						
Rees, Burt L., assignor of one-half to G. Williams, Jr., Columbus, Ohio. Collection-indicator attachment for mail-boxes	637,416	Nov. 21	2306	497	89	1422
Rees, Daniel B., Union, Oreg. Fire-escape	631,968	Aug. 29	4140	931	88	1598
Rees, Fred H., Elmira, N. Y. Station-indicator	629,605	July 25	3082	718	88	655
Rees, Wesley, Memphis, Mo. Fire-escape	631,382	Aug. 22	3076	696	88	1380
Reese, Frederick, Eutaw, Ala. Thill-coupling	628,852	July 11	1697	396	88	351
Reese, Henry D., Eastlake, Ala., assignor of one-sixth to W. F. Sparling, Mohonk Lake, N. Y. Bow-facing oar	632,204	Aug. 29	4597	1036	88	1687
Reese, Henry O., Baltimore, Md. Tinners' tongs	627,309	June 20	2014	443	87	2045
Reese, Henry O., Baltimore, Md. Metal roofing	631,092	Aug. 15	2559	578	88	1259
Reese, Henry O., Baltimore, Md. Sheet-metal roofing	638,064	Nov. 28	3867	813	89	1790
Reese, William, assignor of one-half to J. Skews and J. Connelly, Carnegie, Pa. Car-coupling	629,173	July 18	2284	531	88	481
Reeser, John D., *et al.* (See Campbell, George L., assignor.)						
Reeve, Benjamin H., receiver. (See Nichols, Aaron S., assignor.)						
Reeve, Flora H., New York, N. Y. Cheese-cutter	627,708	June 27	2795	612	87	2215
Reeve, Frank U. (See Hollaway, Edgar A., assignor.)						
Reeve, Henry E. (See Sayles and Reeve.)						
Reeve, John P. (See Buxton, Charles L., assignor.)						
Reeves, Amos, and A. W. Johnson, Rock Falls, Ill. Kitchen utensil	631,818	Aug. 29	3884	867	88	1548
Reeves, Charles W., Columbus, Ohio. Office-indicator	619,616	Feb. 14	1483	339	86	1117
Reeves & Co. (See Clay, Harry C., assignor.)						
Reeves & Co. (See Clay and Reeves, assignors.)						
Reeves & Company. (See Clay, Harry C., assignor.)						
Reeves & Company. (See Reeves, Kailor, and Clay, assignors.)						
Reeves, Harry E., Indianapolis, Ind. Type-tie	624,977	May 16	1888	423	87	1107
Reeves, Madison W., Sayre, Pa. Pocket-holder	635,448	Oct. 24	2775	634	89	596
Reeves, Marshal T. (See Clay and Reeves.)						
Reeves, Marshal T. (See Ensley, Peter B., assignor.)						
Reeves, Marshal T., and J. N. Kailor, assignors to Reeves & Co., Columbus, Ind. Wind-board	620,358	Feb. 28	2850	651, 652	86	1419
Reeves, Marshal T., J. N. Kailor, and H. C. Clay, assignors to Reeves & Co., Columbus, Ind. Pneumatic stacker	621,428	Mar. 21	1637	363	86	1844
Reeves, Marshal T., J. N. Kailor, and H. C. Clay, assignors to Reeves & Company, Columbus, Ind. Gear-casing	635,024	Oct. 17	1909	455	89	412
Reeves, Milton O., assignor to Reeves Pulley Company, Columbus, Ind. Speed-varying mechanism	630,407	Aug. 8	1314	293	88	993
Reeves, Orange D. (See Witty and Reeves.)						
Reeves, Oscar L., assignor of one-half to R. B. Hutchinson, Checotah, Ind. Ter. Cotton elevator and cleaner	636,557	Nov. 7	574	127	89	1037
Reeves Patent Filters Company. (See Reeves, Wilfred, assignor.)						
Reeves Pulley Company. (See Reeves, Milton O., assignor.)						
Reeves, Robert H., London, England. Disinfecting	631,228	Aug. 15	2777	------	88	1303
Reeves, Robert H., London, England. Treating sewage	631,229	Aug. 15	2778	629	88	1303
Reeves, Wilfred, assignor to Reeves Patent Filters Company, Limited, London, England. Filtering apparatus	617,771	Jan. 17	1729	388, 389	86	375
Regan, George. New York, N. Y. Holder for nursing-bottles, &c	638,939	Dec. 12	1392	318	89	2158
Regan, John W., Boston, Mass. Ax or similar tool	635,185	Oct. 17	2232	520	89	475
Regensteiner, Theodore. (See Dittman, Samuel E., assignor.)						
Regester, Thomas L., assignor to Rock Island Plow Company, Rock Island, Ill. Automatic check-row wire-machine	638,988	Dec. 12	1483	340, 341, 342	89	2176
Regester, Thomas L., assignor to Rock Island Plow Company, Rock Island, Ill. Automatic check-row-wire machine	638,989	Dec. 12	1492	342, 343	89	2177
Regina Music Box Company. (See Brachhausen, Gustav A., assignor.)						
Regina Music Box Company. (See Kasik, Franz C., assignor.)						
Regnart, Percy S. (See Waterman and Morison, assignors.)						
Regulski, John F., *et al.* (See Dotts, Hiram S., assignor.)						
Rehart, Solomon V., Lakeview, Oreg. Pumping apparatus	635,390	Oct. 24	2630	607	89	568
Rehberger, Frank. (See Smith, Simon, assignor.)						
Rehbock, August. (See Rolff, Louis W. G., assignor.)						
Rehdorff, Franz. (See Scherff, Rehdorff, and Ottow.)						
Rehfeldt, Henry, *et al.* (See Corneil, Robert F., assignor.)						
Rehfuss, Martin O. (See Dolley, Rehfuss, and Hunt.)						
Rehm, Frederick C., Chicago, Ill. Knitting-machine	619,840	Feb. 21	1934	440	86	1231
Rehmann, Gustave, assignor of one-half to H. Ill, Newark, N. J. Pocket-case	634,959	Oct. 17	1790	425	89	388
Rehnstrand, Charles, *et al.* (See Elgen, Magnus P., assignor.)						
Reibel, Jean, Angoulême, France. Acetylene-gas generator	618,730	Jan. 31	3548	792, 793	86	753
Reiber, Henry, and F. Petsch, Pittsburg, Pa. Stamping-machine	637,031	Nov. 14	1547	333	89	1259
Reibestein Pauline, Canton, Ohio. Article-holder	625,805	May 30	3374	766	87	1435
Reich, Edmond L. (See Kelley and Reich.)						
Reich, Philip, Cincinnati, Ohio, assignor to J. Colditz, New York, N. Y. Library or parcel servitor	636,558	Nov. 7	576	128, 129	89	1038

Alphabetical list of patentees—Continued.

Name, residence, and invention.	No.	Date.	Monthly volume. Spec.	Monthly volume. Drg.	Official Gazette. Vol.	Official Gazette. Page.
Reichard, George W. (See Holloway and Reichard.)						
Reichel, Arthur C., Union Hill, N. J. Alarm-clock	617,356	Jan. 10	954	219	86	205
Reichel, Emil B. W., Berlin, Germany, assignor to Siemens & Halske Electric Company of America, Chicago, Ill. Electric-railway system	617,837	Jan. 17	1871	418	86	403
Reichel, Emil B. W., Berlin, Germany, assignor to Siemens & Halske Electric Company of America, Chicago, Ill. Protective fuse	622,075	Mar. 28	2851	642	86	2094
Reichel, Emil B. W., Berlin, Germany, assignor to Siemens & Halske Electric Company of America, Chicago, Ill. Protecting device for journals and bearings	623,628	Apr. 25	2632	601	87	561
Reichel, Emil B. W., Berlin, Germany, assignor to Siemens & Halske Electric Company of America, Chicago, Ill. Controller for electrically-propelled vehicles	624,250	May 2	565	120	87	807
Reichel, Emil B. W., Berlin, Germany, assignor to Siemens & Halske Electric Company of America, Chicago, Ill. System of electrical distribution	637,828	Nov. 28	3427	716	89	1702
Reichel, Emil B. W., Berlin, Germany, assignor to Siemens & Halske Electric Company of America, Chicago, Ill. Controlling mechanism for brakes and sand-distributing apparatus for street-cars	637,829	Nov. 28	3428	717	89	1703
Reichel, Louis J., East Dubuque, Ill., assignor of one-half to Telegraph Job Printing Company, Dubuque, Iowa. Desk for hotel-registers	633,156	Sept. 19	1805	425	88	2088
Reichenbach, Henry. (See Saldin, Max, assignor.)						
Reichenbach, Henry M., assignor to Reichenbach, Movey & Will Company, Rochester, N. Y. Machine for coating paper	619,617	Feb. 14	1485	339	86	1117
Reichenbach, Movey & Will Company. (See Reichenbach, Henry M., assignor.)						
Reichert, John P., assignor of one-half to M. Turner, Rochester, N. Y. Table	624,683	May 9	1341	299, 300	87	983
Reid, Alban H., Philadelphia, Pa. Centrifugal cream-separator	621,706	Mar. 21	2157	480	86	1946
Reid, Alban H., Philadelphia, Pa. Centrifugal cream-separator	622,393	Apr. 4	328	75, 76	87	62
Reid, Alfred J., Friendship, Ga. Book-holder	631,512	Aug. 22	3321	754	88	1428
Reid, Andrew H. (See Redpath, Walter, assignor.)						
Reid, Charles H., Danbury, Conn. Hat-pouncing machine	625,699	May 23	3141	714	87	1373
Reid, Clark R., Piqua, Ohio. Display-stand	623,827	Apr. 25	3011	691	87	635
Reid, Dent, *et al.* (See Shutts, Hugh B., assignor.)						
Reid, Fred T., Hartford, Conn., assignor to Pope Manufacturing Company, Hartford, Conn., and Portland, Me. Tube-making apparatus	627,205	June 20	1820	399	87	2006
Reid, Fred T., Hartford, Conn., assignor to Pope Manufacturing Company, Hartford, Conn., and Portland, Me. Mandrel-holder	627,444	June 20	2297	505	87	2100
Reid, James F., *et al.* (See Coons, James, assignor.)						
Reid, John T., and H. Thorp, Pendleton, England. Dyeing khaki	631,906	Aug. 29	4027	------	88	1576
Reid, Joseph, Oil City Pa. Apparatus for drilling wells	626,933	June 13	1349	297	87	1893
Reid, Patrick J., Chicago, Ill. Sign-board and safety device for brakemen of freight-cars	625,467	May 23	2748	625	87	1294
Reid, Robert, Melbourne, Victoria. Attaching inflating-pumps to cycles	630,561	Aug. 8	1605	359	88	1049
Reid, Robert, Melbourne, Victoria. Valve for pneumatic tires	631,879	Aug. 29	3988	892	88	1569
Reid, Thomas J., Columbus, Ohio. Rubber-tired wheel	623,034	Apr. 11	1529	354	87	312
Reid, William, Chicago, Ill., and F. Hess, San Francisco, Cal., assignors to Mergenthaler Linotype Company, of New York. Linotype-machine	636,390	Nov. 7	277	62	89	977
Reider, William H., *et al.* (See Steele, John B., assignor.)						
Reif, Joseph, Jr. (See Fisher and Reif.)						
Reiff, William H., Philadelphia, Pa. Combined burglar-alarm and door-check	635,595	Oct. 24	3025	694	89	644
Reigart, Jacob, Oberlin, assignor of one-half to C. S. Boll, Harrisburg, Pa. Machine for attaching strings to boxes	631,819	Aug. 29	3885	867	88	1548
Reigart, Jacob, and C. S. Boll, Harrisburg, Pa.; said Reigart assignor to said Boll. Bedstead-fastening	620,611	Mar. 7	114	23	86	1524
Reigelman, Alvin G., Fredonia, Pa. Thill-coupling	632,926	Sept. 12	1366	315	88	1990
Reilly, Thomas, assignor of one-half to M. E. Lynch, Newark, N. J. Brake system for street-cars	631,262	Aug. 15	2856	644, 645	88	1319
Reim, George J. (See Underwood, Charles H., assignor.)						
Rein, Gustavus, assignor, by mesne assignments, to J. W. Allison, trustee, St. Louis, Mo. Fare-register	624,091	May 2	258	54, 55, 56	87	750
Reim, Reinhold J., assignor of one-half to E. F. Siller, Houghton, Mich. Shoe-stretcher	629,207	July 18	2342	543	88	491
Reimann, Gustav, Nimptsch, Germany. Pistol for squirting liquids	617,495	Jan. 10	1203	274	86	254
Reimer, Andrew N., and W. A. Olsen, New York, N. Y. Grapple	635,146	Oct. 17	2174	507	89	464
Reimer, John J., Mobile, Ala. Awning-operating device	618,906	Feb. 7	152	33	86	835
Reimold, Fred W., Chihuahua, Mexico. Border-maker or ridger	619,789	Feb. 21	1848	422	86	1214
Reimuller, Charles, Belmar, N. J. Car-ventilator	632,205	Aug. 29	4598	1036	88	1687
Reinberger, George H. (See Orewiler, Benjamin F., assignor.)						
Reiner, Andrew L., assignor to Export Implement Manufacturing Company, Blue Island, Ill. Sickle-grinder	637,946	Nov. 28	3646	765	89	1746
Reiners, Charles A. (See Smalley and Reiners.)						
Reinfeld, Mayer, St. Louis, Mo. Trousers	623,739	Apr. 25	2812	644	87	596
Reinhard, Wilhelm, Berlin, Germany. Keyhole-guard	627,463	June 20	2329	513	87	2106
Reinhardt, Carl, Kaiserslautern, Germany. Preserving eggs	631,997	Aug. 29	4193	------	88	1608
Reininger, Henry, New Orleans, La. Beer-cooler	626,934	June 13	1351	297	87	1894
Reinisch, Harry E., New York, N. Y. Hose-coupling	620,497	Feb. 28	3069	701	86	1461
Reinle Bros. & Salmon. (See Fadum, Ernest, assignor.)						
Reinnholm, August W. (See Hanson and Reinnholm.)						
Reinshagen, Peter W., Cincinnati, Ohio. Machine for disintegrating hemp	630,408	Aug. 8	1316	293, 294	88	993
Reis, Adam, Georgetown, Minn. Weed-seed destroyer	628,355	July 4	762	176, 177	88	147
Reis, Isaac E., assignor to Advance Water Heater Company, St. Louis, Mo. Burner for water-heaters	638,143	Nov. 28	4043	852	89	1823
Reis, Isaac E., assignor to Advance Water Heater Company, St. Louis, Mo. Water-heater	638,144	Nov. 28	4044	853	89	1823
Reis, Jared M. B. (See Gill, Joseph H., assignor.)						
Reisenegger, Hermann. (See Le Blanc and Reisenegger.)						
Reisenhus, Peter P., Chicago, Ill. Glove or mitten	630,302	Aug. 1	1062	231	88	931
Reisert, Eduard, Hennef-on-the-Sieg, Germany. Fountain-pen	634,029	Oct. 3	83	22	89	21
Reisert, Hans, Cologne, Germany. Filter	630,988	Aug. 15	2358	537	88	1220
Reisert, Michael E., Hennef-on-the-Sieg, Germany. Automatic weighing apparatus	637,896	Nov. 28	3567	747	89	1731
Reisert, Michael E., Hennef-on-the-Sieg, Germany. Automatic weighing apparatus	637,897	Nov. 28	3570	747, 748	89	1732
Reisert, Michael E , Hennef-on-the-Sieg, Germany. Scale	638,596	Dec. 5	771	167	89	2013
Reisinger, Anthony, and V. L. Caple, Naples, N. Y. Fence	631,670	Aug. 22	3595	810	88	1484
Reist, Henry G., Schenectady, N. Y., assignor to General Electric Company, of New York. Dynamo-electric machine	630,409	Aug. 8	1319	294	88	994
Reist, Henry G., Schenectady, N. Y., assignor to General Electric Company, of New York. Armature	630,930	Aug. 15	2242	511	88	1108

Alphabetical list of patentees—Continued.

Name, residence, and invention.	No.	Date.	Monthly volume.		Official Gazette.	
			Spec.	Dr'g.	Vol.	Page.
Reliance Lamp Electric Company. (See Paget, Leonard, assignor.)						
Relyea, Charles H. W., North Adams, Mich. Whiffletree-hook	634,835	Oct. 10	1578	371	89	330
Rellstab, Ludwig, Kiel, Germany. Ship's or similar compass	619,618	Feb. 14	1486	339, 340	86	1118
Remer, George I., Keokuk, Iowa. Folding shipping-crate	638,473	Dec. 5	553	114	89	1972
Remick, H. E., *et al.* (See Gould, Simeon L., assignor.)						
Remington Arms Company. (See Fake, Edward D., assignor.)						
Remington, Charles H., assignor to C. R. Remington & Son Company, Watertown, N. Y. Counting attachment for rotary paper-cutters	617,937	Jan. 17	2062	462	86	442
Rémondy, Léon, Vincennes, and P. Hallot, Vannes, France. Brake apparatus for vehicles	632,146	Aug. 29	4483	1010	88	1667
Remy-McLean Cellulose Co. (See Remy, Noah T., assignor.)						
Remy, Noah T., assignor to Remy-McLean Cellulose Co., Olney, Ill. Apparatus for removing pith from stalks of plants	632,789	Sept. 12	1107	256	88	1942
Renaud, Clement. (See Mooney and Renaud.)						
Rendell, Charles W., Perth, Western Australia. Clasp-buckle	626,393	June 6	340	79	87	1679
Render, Frederick, Manchester, England. Cartridge-loading machine	622,711	Apr. 11	959	221, 222, 223	87	202
René, J. A. (See Johnson, Gustaf F., assignor.)						
Rengert, Emil, Fürstenwalde, Germany. Ice-velocipede	621,137	Mar. 14	1138	246	86	1734
Renick, Fred E., Mammoth Springs, Ark. Knockdown egg-case	635,186	Oct. 17	2233	520	89	476
Renick, Henry S., *et al.* (See Bell, Carroll M., assignor.)						
Renken, Wilke J., Coatsburg, Ill. Tooth-holding device for harrows	621,707	Mar. 21	2158	480	86	1946
Renne, William C., *et al.* (See Ryan, Edward J., assignor.)						
Renner, Fred, Jr. (See Anthony, Charles E., assignor.)						
Renner, George, and W. H. Boyens, Christchurch, New Zealand. Apparatus for marking sheep, &c	635,060	Oct. 17	1985	469	89	428
Renner, Jacob E. (See Shepard, Homer E., assignor.)						
Rennerfelt, Gustaf, assignor of two-thirds to R. Lundell, New York, N. Y. Apparatus for controlling movements of electric-elevator cars	625,060	May 16	2024	456	87	1133
Rennie, John A., Philadelphia, Pa. Matting for floors	620,498	Feb. 28	3070	702	86	1461
Reno, Jesse W., New York, N. Y. Explosive shell	624,978	May 16	1890	424	87	1108
Reno, Jesse W., New York, N. Y. Inclined elevator	637,526	Nov. 21	2497	541, 542	89	1459
Renshaw, Joseph B., Hartford, Conn. Gate-pattern for molds	639,771	Dec. 26	2936	676	89	2498
Renwick, Edward S., Millburn, N. J. Finger-guard for revolvers	628,356	July 4	763	177	88	147
Renyx, Guy W. (See Kneeland and Hartmann, assignors.)						
Renz, Eugene, Stirling, N. J., assignor to Crompton & Knowles Loom Works, Worcester, Mass. Loom	621,138	Mar. 14	1139	247	86	1734
Renzo, Francesco, Paterson, N. J. Hygroscope	639,935	Dec. 26	3223	739	89	2554
Répin, Charles, Paris, France. Treating india-rubber, gutta-percha, &c	632,022	Aug. 29	4248	------	88	1619
Repkow, Herman F. (See Walter and Repkow.)						
Replogle, Mark A., Akron, Ohio. Sliding toggle	638,990	Dec. 12	1497	344	89	2178
Requa, John J., New York, N. Y. Fly-paper cage	624,249	May 2	564	120	87	807
Requarth, Henry W., assignor to F. A. Requarth Company, Dayton, Ohio. Game-table	638,991	Dec. 12	1498	344	89	2178
Resch, Johann, Graz, Austria-Hungary. Cycle driving mechanism	625,604	May 23	2982	677, 678	87	1342
Reser, Elijah F., Greensburg, Kans. Clothes-pin	629,114	July 18	2183	506	88	463
Resor, Charles H., assignor to William Resor & Company, Cincinnati, Ohio. Gas-burner	639,185	Dec. 12	1806	418	89	2239
Resow, Adolf, assignor to F. Krupp, Essen, Germany. Gun-carriage	620,359	Feb. 28	2852	652	86	1419
Resow, Adolf, assignor to F. Krupp, Essen, Germany. Gun-carriage	620,360	Feb. 28	2853	652, 653	86	1419
Resow, Adolf, assignor to F. Krupp, Essen, Germany. Gun-carriage	621,286	Mar. 14	1396	310	86	1785
Resow, Adolf, assignor to F. Krupp, Essen, Germany. Recoil-spring brake for gun-carriages	621,585	Mar. 21	1929	431, 432	86	1900
Resow, Adolf, assignor to F. Krupp, Essen, Germany. Carriage for field-guns	633,367	Sept. 19	2216	520	88	2169
Resow, Adolf, and O. Lauber, assignors to F. Krupp, Essen, Germany. Carriage for field-guns	620,802	Mar. 7	489	103	86	1597
Resow, Adolf, and O. Behnke, assignors to F. Krupp, Essen, Germany. Firing-brake for guns	633,366	Sept. 19	2215	520	88	2169
Rettig, Fritz, Mulhouse, Germany. Making colored designs on woven fabrics	617,772	Jan. 17	1732	------	86	375
Reuber, Joseph. (See Hanlon and Reuber.)						
Reuse, Jean, Hal, Belgium. Cigar-bunching machine	636,696	Nov. 7	843	187, 188	89	1093
Reusing, John, Baltimore, Md. Liquid-weighing vessel	625,901	May 30	3555	806	87	1470
Reuter, Heinrich T., Boston, Mass. Machine-belting	619,908	Feb. 21	2055	466	86	1254
Reuter, John C., Chicago, Ill., assignor to L. W. Stevens, Auburn, N. Y. Bicycle-saddle	621,139	Mar. 14	1140	247	86	1734
Reuter, John C., Chicago, Ill., assignor to L. W. Stevens, Auburn, N. Y. Bicycle-saddle	621,140	Mar. 14	1142	247	86	1735
Revalk, John F., San Francisco, Cal., assignor to Crescent File Company, of California. Compound for resharpening files	633,489	Sept. 19	2424	------	88	2209
Revel, Liévin L., Havre, France. Carbureted-air or other fluid pressure engine	625,416	May 23	2663	605, 606, 607	87	1279
Revere Rubber Company. (See Patterson, John S., assignor.)						
Reversible Collar Company. (See Foster, Frank M., assignor.)						
Rex Acetylene Generator Co. (See Stewart and King, assignors.)						
Rex Mineral Spring Company. (See King, Ferdinand, assignor.)						
Rey, Hermann. (See Schmid and Rey.)						
Rey, Valentine J. A., San Francisco, Cal. Pump for gas-generating machines	637,417	Nov. 21	2308	498	89	1423
Reyburn, John E. (See Müller, Harry O., assignor.)						
Reynaud, Hector F. (See Bernard, Reynaud, and Bernard.)						
Reynolds, Alfred, Dunedin, New Zealand. Lateral-motion reversible marine propeller	629,271	July 18	2442	565	88	510
Reynolds, Bloomer A., Rochelle, Ill. Potato-digger	617,513	Jan. 10	1235	282	86	260
Reynolds, De Elbert A. (See Trayer and Reynolds.)						
Reynolds, Dexter, St. Louis, Mo. Means for purifying liquids	618,522	Jan. 31	3183	703	86	681
Reynolds, Edward, Clipston Rectory, England. Bicycle-crank	629,921	Aug. 1	342	75	88	789
Reynolds, Edwin, Milwaukee, Wis. Furnace	624,979	May 16	1891	424	87	1108
Reynolds, Frank A. (See Mitchell and Reynolds.)						
Reynolds, Frank A., assignor of one-half to S. H. Manning, Lewiston, Me., and H. C. Parker, New York, N. Y. Ripping device	638,356	Dec. 5	326	69	89	1928
Reynolds, George H., assignor to Crane Elevator Company, Chicago, Ill. Elevator-cylinder-alining device	617,357	Jan. 10	955	219	86	205
Reynolds, H. B., *et al.* (See Harvey, William A., assignor.)						
Reynolds, Harry A. (See Kellogg, Thomas E., assignor.)						
Reynolds, Henry S., New York, N. Y. Construction of receptacles	621,540	Mar. 21	1858	413	86	1885
Reynolds, Herman M., Oneida, N. Y. Drill-chuck	620,612	Mar. 7	115	23	86	1524

Alphabetical list of patentees—Continued.

Name, residence, and invention.	No.	Date.	Monthly volume. Spec.	Monthly volume. Dr'g.	Official Gazette. Vol.	Official Gazette. Page.
Reynolds, Hiram R., assignor of one-half to M. Brent and J. F. Lennox, Stouffville, Canada. Ash-sifter	640,028	Dec. 26	3387	776	89	2588
Reynolds, John R. (See Purinton and Reynolds.)						
Reynolds, John R., Healdsburg, Cal. Animal-muzzle	619,994	Feb. 21	2197	500	86	1280
Reynolds, Nelson J., Clark's Summit, Pa. Puzzle	628,117	July 4	303	71	88	60
Reynolds, Noah H., assignor to M. B. Draper, Grand Rapids, Mich., and E. Taggart. Lamplighting attachment	633,490	Sept. 19	2425	570	88	2210
Reynolds, Robert R., New York, N. Y. Non-refillable bottle	624,092	May 2	275	56	87	753
Reynolds, Ross L. (See Leonard and Reynolds.)						
Reynolds, Stephen, Northfield, assignor of one-third to H. E. Conley, Cannon Falls, Minn. Car-coupling	632,366	Sept. 5	281	65	88	1762
Reynolds, Stephen G., assignor of one-half to T. A. H. and W. O. Hay, Easton, Pa. Trolley-pole	628,610	July 11	1226	286	88	257
Reynolds, Stephen H. (See Hood and Reynolds.)						
Reynolds, Sylvanus J., Saginaw, Mich. Carpet-sweeper	622,017	Mar. 28	2758	622	86	2076
Reynolds, Warren M., Goshen, Ky. Hay-frame	621,708	Mar. 21	2159	481	86	1946
Reynolds, William H. (See Cox, Reynolds, and Wright.)						
Reynolds, William I., Battle Creek, Mich. Cuspidor	636,290	Nov. 7	115	25	89	945
Reynolds, William M., assignor to American Steel Roofing Company, Cincinnati, Ohio. Pipe-twisting machine	633,389	Sept. 19	2261	532, 533	88	2177
Rheault, Frank, Baraga, Mich. Rowlock	618,731	Jan. 31	3551	793	86	753
Rheutan, Abram A., Worcester, Mass. Envelop-machine	620,613	Mar. 7	115	23	86	1524
Rhind, Frank, assignor of one-half to Bridgeport Brass Company, Bridgeport, Conn. Lantern-bracket	621,374	Mar. 21	1556	345	86	1828
Rhind, Frank, assignor of one-half to Bridgeport Brass Company, Bridgeport, Conn. Acetylene-gas generator	623,829	Apr. 25	3015	692	87	636
Rhind, Frank, assignor of one-half to Bridgeport Brass Company, Bridgeport, Conn. Lantern-bracket	624,093	May 2	275	57	87	754
Rhind, Frank, assignor of one-half to Bridgeport Brass Company, Bridgeport, Conn. Lamp	631,820	Aug. 29	3885	867	88	1548
Rhind, Frank, assignor of one-half to Bridgeport Brass Company, Bridgeport, Conn. Acetylene-gas generator	635,351	Oct. 24	2528	588	89	547
Rhine, John J., Pittsburg, Pa. Incandescent bulb and shade remover	623,180	Apr. 18	1830	419	87	384
Rhinelander, James J., Harmony, Pa. Pipe-wrench	626,037	May 30	3859	875	87	1527
Rhinelander, James J., and C. Moyer, Harmony, Pa. Bottle-stopper	627,829	June 27	3004	656, 657	87	2257
Rhinelander, James J., and C. Moyer, Harmony, Pa. Non-explosive oil-can	639,936	Dec. 26	3225	740	89	2554
Rhino, John, assignor of one-half to B. O. Fournier, Jackson, Mont. Coffee-mill	618,523	Jan. 31	3186	703	86	682
Rhoades, Alonzo E., Hopedale, Mass., assignor to Draper Company, Hopedale, Mass., and Portland, Me. Warping-machine	624,541	May 9	1104	249	87	936
Rhoades, Charles E., Fostoria, Ohio. Safety-plug for steam-boilers	636,845	Nov. 14	1167	253	89	1185
Rhoads, George A., Wilmington, Del. Leather-stretching machine	621,709	Mar. 21	2160	481	86	1946
Rhode Island Oil Fuel Burner Company. (See Weeks, John W., assignor.)						
Rhodes, Jay B., assignor to F. C. Austin, Chicago, Ill. Steam-engine	616,973	Jan. 3	199	46	86	39
Rhodes, Jay B., assignor to F. C. Austin, Chicago, Ill. Steam or other fluid-actuated valve	639,288	Dec. 19	2016	465, 466	89	2295
Rhodes, Jay B., Harvey, assignor to F. C. Austin, Chicago, Ill. Supporting-tripod for rock-drills	622,264	Apr. 4	113	26	87	24
Rhodes, Jay B., Harvey, assignor to F. C. Austin, Chicago, Ill. Street-sprinkler	636,846	Nov. 14	1168	253	89	1185
Rhodes, Jay B., Harvey, assignor to F. C. Austin, Chicago, Ill. Sprinkler	639,289	Dec. 19	2021	466, 467	89	2296
Rhodes, Jerome B., Shreveport, La. Water-closet	639,290	Dec. 19	2024	467	89	2296
Rhodes, Julius D., Washington, D. C., assignor of three-eighths to C. H. Pirtle, Lincoln, Nebr. Intrenching-tool and head-protector	622,394	Apr. 4	329	76	87	62
Rhodes, Samuel A., McClean, Nebr. Wire-tightener	618,187	Jan. 24	2562	566	86	549
Rhodes, Seth A., assignor to Geneva Optical Company, Chicago, Ill. Retinoscope	637,032	Nov. 14	1549	333, 334	89	1260
Rhodes, Thomas A., Carrsville, Ky. Back-band buckle	626,442	June 6	420	99	87	1695
Rhodes, Will L., assignor of one-half to O. D. Knox, Manchester, N. H. Shoe-leveling machine	637,418	Nov. 21	2311	498	89	1423
Rhodes, William A. (See Mitchell and Rhodes.)						
Riblet, George E., Erie, Pa. Engine-governor	623,740	Apr. 25	2813	644	87	596
Riblet, George J., Sr., Shinnston, W. Va. Lock-lever	629,208	July 18	2343	543	88	492
Rice, Alfred C., London, England. Coin-freed holder or stand for cycles	620,361	Feb. 28	2855	653	86	1420
Rice, Alva C., Dayton, Ohio. Turbine	620,964	Mar. 14	805	177	86	1670
Rice, Alva C., Dayton, Ohio. Water-wheel system	621,141	Mar. 14	1143	248	86	1735
Rice, Arthur H., *et al.* (See O'Dell, Stephen E., assignor.)						
Rice, Arthur H., Buffalo, N. Y. Chart-form	623,561	Apr. 25	2516	577	87	541
Rice, Beverly W., Eldred, Pa. Boiler	636,923	Nov. 14	1342	287, 288	89	1218
Rice, Charles, Durham, Ill. Gate	618,816	Jan. 31	3700	828	86	783
Rice, Charles D., Hartford, Conn. Gear-cutting machine	627,310	June 20	2015	443, 444, 445	87	2045
Rice, Charles W., Columbus, Ohio. Gas-furnace	620,052	Feb. 21	2308	524	86	1301
Rice, Chauncey. (See Coomes and Rice.)						
Rice, David S., Memphis, Tenn. Street-lamp	635,187	Oct. 17	2234	520, 521	89	476
Rice, Duane H., *et al.* (See Bright and Smith, assignors.)						
Rice, Edwin W., Jr., Schenectady, N. Y., assignor to General Electric Company, of New York. Operating dynamo-electric machines	625,806	May 30	3375	766	87	1436
Rice, Edwin W., Jr., Swampscott, and C. P. Steinmetz, Lynn, Mass., assignors to General Electric Company, of New York. Alternating-current motor	620,965	Mar. 14	807	178	86	1671
Rice, Edwin W., Jr., and C. P. Steinmetz, Schenectady, N. Y., assignors to General Electric Company, of New York. Induction-motor	620,966	Mar. 14	811	179	86	1671
Rice, Elmer V., Azusa, Cal. Automatic damper	619,346	Feb. 14	1022	230	86	1029
Rice, Emma E., Zumbrota, Minn. Dust-pan	626,096	May 30	3962	900	87	1545
Rice, Franklin H., Palmer, assignor of two-thirds to M. H. Jones, Easton, Pa. System of automatically-operated safety devices for railway-crossings	639,092	Dec. 12	1653	382, 383	89	2207
Rice, Franklin H., Palmer, assignor of two-thirds to M. H. Jones, Easton, Pa. Automatic railway-gate	639,093	Dec. 12	1660	383, 384, 385	89	2209
Rice, George H. (See Shanklin, Philip A., assignor.)						
Rice, George P. (See Miller and Rice.)						
Rice, Gordon W., Davenport, Nebr. Cotton or beet chopper	628,491	July 11	1009	235	88	215
Rice, John B., Fresno, Cal. Raisin-seeder	627,270	June 20	1942	427, 428	87	2031

Alphabetical list of patentees—Continued.

Name, residence, and invention.	No.	Date.	Monthly volume. Spec.	Monthly volume. Dr'g.	Official Gazette. Vol.	Official Gazette. Page.
Rice, John M., assignor to R. Hoe, T. H. Mead, and C. W. Carpenter, New York, N. Y. Brake and adjusting device for web-rolls of printing-presses	628,148	July 4	357	85	88	72
Rice, John V., Jr., assignor to John V. Rice, Junior, Company, Edgewater Park, N. J. Safety device for naphtha-retorts	624,094	May 2	277	57	87	754
Rice, Lewis C., *et al.* (See Bright and Smith, assignors.)						
Rice, Merrill B., Tustin, Cal. Wave-motor	632,826	Sept. 12	1180	270	88	1957
Rice, Milo E., Kansas City, Mo. Artificial limb	630,630	Aug. 8	1737	389	88	1074
Rice, Orrin, Socorro, assignor of one-half to G. W. Pritchard, White Oaks, N. Mex. Ter. Reflecting attachment for type-writing machines	625,356	May 23	2564	583	87	1259
Rice, Samuel J., Scotch Grove, Iowa. Stock-rack for platform-scales	622,538	Apr. 4	643	151	87	122
Rice, Wayne H., South Windsor, Conn. Spraying apparatus	638,206	Nov. 28	4161	879	89	1848
Rice, Wayne H., East Windsor Hill, Conn. Liquid-discharging apparatus	638,207	Nov. 28	4164	879	89	1849
Rich, George K., assignor to himself and J. Rich, Philadelphia, Pa. Mechanical-drawing outfit	634,836	Oct. 10	1580	371	89	331
Rich, John. (See Rich, George K., assignor.)						
Rich, Menzo L., Addison, N. Y. Picture-frame hanger	619,438	Feb. 14	1194	270	86	1061
Richard, George A., Mount Morgan, Queensland. Ore roasting and calcining furnace	630,108	Aug. 1	719	155	88	866
Richards, Charles A., Chicago, Ill. Transom opener or closer	635,597	Oct. 24	3029	695	89	644
Richards, Charles A., Chicago, Ill. Transom opener or closer	636,847	Nov. 14	1171	254	89	1186
Richards, Charles R., assignor to Union Metallic Cartridge Company, Bridgeport, Conn. Machine for turning heads of cartridge-shells	640,029	Dec. 26	3390	777, 778	89	2589
Richards, Charles W., San Francisco, Cal. Finger tooth-brush	628,185	July 4	427	101	88	86
Richards, Edwin G., Sharon, Mass. Filing-case	637,033	Nov. 14	1551	334	89	1260
Richards, Francis H., Hartford, Conn. Weighing-machine	618,383	Jan. 24	2902	644, 645	86	614
Richards, Francis H., Hartford, Conn. Automatic weighing-machine	618,384	Jan. 24	2920	645, 646	86	619
Richards, Francis H., Hartford, Conn. Roller-bearing	620,180	Feb. 28	2523	573	86	1358
Richards, Francis H., Hartford, Conn. Weighing-machine	624,379	May 2	792	178	87	852
Richards, Francis H., Hartford, Conn. Weighing-machine	631,052	Aug. 15	2476	561	88	1244
Richards, Francis H., Hartford, Conn. Weighing-machine	631,053	Aug. 15	2480	562, 563	88	1244
Richards, Francis H., Hartford, Conn. Weighing-machine	632,659	Sept. 5	825	192, 193	88	1872
Richards, Francis H., Hartford, Conn. Weighing-machine	632,660	Sept. 5	829	193, 194	88	1872
Richards, Francis H., Hartford, Conn. Motor-vehicle	633,157	Sept. 19	1807	425, 426	88	2088
Richards, Francis H., Hartford, Conn. Weighing-machine	633,218	Sept. 19	1929	454, 455	88	2114
Richards, Francis H., Hartford, Conn. Image-forming mechanism	636,062	Oct. 31	3934	901, 902, 903	89	835
Richards, Francis H., Hartford, Conn. Image-forming mechanism	636,063	Oct. 31	3948	904, 905	89	838
Richards, Francis H., Hartford, Conn. Image-forming mechanism	636,064	Oct. 31	3960	905, 906, 907, 908	89	840
Richards, Francis H., Hartford, Conn. Card-setting mechanism	638,275	Dec. 5	138	32, 33, 34	89	1892
Richards, Francis H., Hartford, Conn., assignor, by mesne assignments, to New England Automatic Weighing Machine Company, Portland, Me. Weighing-machine	637,527	Nov. 21	2501	542, 543	89	1459
Richards, Francis H., Hartford, Conn., assignor, by mesne assignments, to New England Automatic Weighing Machine Company, Portland, Me. Automatic weighing-machine	638,672	Dec. 5	902	199, 200, 201, 202, 203, 204	89	2041
Richards, Francis H., Hartford, Conn., assignor, by mesne assignments, to New England Automatic Weighing Machine Company, Portland, Me. Weighing-machine	638,673	Dec. 5	917	204, 205	89	2045
Richards, Henry, Gardiner, Me., and V. Drewsen, New York, N. Y. Chip-separator	631,093	Aug. 15	2560	578	88	1259
Richards, Henry J., assignor of one-half to J. F. Shea, Wilkes-Barré, Pa. Miner's lamp	622,076	Mar. 28	2852	643	86	2095
Richards, Herbert T., New York, N. Y. Telephone-register	624,095	May 2	279	57	87	754
Richards, Herbert T., New York, N. Y. Telephone-register	624,542	May 9	1106	249	87	936
Richards, Horace P., and B F. Snyder, Bald Mount, assignors of one-third to M. M. Hufford, Clark's Summit, Pa. Thill-coupling	623,427	Apr. 18	2271	520	87	475
Richards, John W., and W. E. Shipley, Waverly, N. Y. Steam-boiler	617,050	Jan. 3	376	91	86	72
Richards, Jonathan W. (See Snow, Albert G., assignor.)						
Richards, Josiah H. (See Bassett, Charles A., assignor.)						
Richards, Marcius C., Aurora, Ill. Sliding-door hanger	621,710	Mar. 21	2162	481	86	1947
Richards, Marcius C., Aurora, Ill. Adjustable track for sliding doors	623,035	Apr. 11	1530	354	87	312
Richards, Orlando, Bristol, Wis. Tambourine	636,848	Nov. 14	1172	254	89	1186
Richards, Richard. (See Herold and Richards.)						
Richards, Robert H., Boston, Mass. Hydraulic separating apparatus and method of separating	624,684	May 9	1343	300	87	984
Richards, Willard F., Buffalo, assignor to Gould Coupler Company, New York, N. Y. Railway-car	620,803	Mar. 7	490	103, 104	86	1598
Richards, Willard F., Buffalo, assignor to C. M. Gould, New York, N. Y. Electric lighting apparatus for railway-cars	634,542	Oct 10	1071	256	89	231
Richards, Willard F., Buffalo, assignor to Gould Coupler Company, New York, N. Y. Car-coupling	638,357	Dec. 5	327	69	89	1929
Richards, Willard F., Buffalo, assignor to Gould Coupler Company, New York, N. Y. Car-coupling	638,358	Dec. 5	331	70	89	1929
Richards, William, Bell Brook, Ohio. Harrow	629,272	July 18	2443	566	88	510
Richardson, A. A. (See Madison, Payton, assignor.)						
Richardson, Albert C., assignor of one-half to A. Natzel, South Frankfort, Mich. Insect-destroyer	620,362	Feb. 28	2858	654	86	1421
Richardson, Albert C., assignor of one-half to A. Everts, South Frankfort, Mich. Bottle	638,811	Dec. 12	1175	263	89	2115
Richardson, Albert E. (See Smith, Ed M., assignor.)						
Richardson, Albert E., *et al.* (See Vierengel, Matthew, assignor.)						
Richardson, Alfonso A., New York, N. Y. Steam-boiler furnace	630,268	Aug. 1	982	216, 217	88	916
Richardson, Charles M., *et al.* (See Ahrens, Howard E., assignor.)						
Richardson, Chauncey E., Duluth, Minn. Seal-lock	639,937	Dec. 26	3226	740	89	2555

Alphabetical list of patentees—Continued.

Name, residence, and invention.	No.	Date.	Monthly volume.		Official Gazette.	
			Spec.	Dr'g.	Vol.	Page.
Richardson, Chauncey E., Duluth, Minn. Seal-lock	639,938	Dec. 26	3228	740	89	2555
Richardson, Clinton W., Bath, N. Y. Dust-pan	626,843	June 13	1163	259	87	1856
Richardson, Daniel S. (See Hoagland and Richardson.)						
Richardson, Dwight S., New York, N. Y. Grate-bar	622,077	Mar. 28	2853	643	86	2095
Richardson, Edward N. (See Call, Benjamin G., assignor.)						
Richardson, Frank, trustee. (See Sweet, John M., assignor.)						
Richardson, George F., Hartford, Conn. Thermostat	634,911	Oct. 17	1711	404	89	373
Richardson, Herbert J., Albion, Mich. Telephone attachment	639,826	Dec. 26	3033	698	89	2516
Richardson, John S., S. Jevons, and W. A. Gent, Birmingham, England. Mechanism for electrically-illuminated devices	634,912	Oct. 17	1712	404, 405	89	373
Richardson, John T., Harrisburg, assignor of one-half to A. H. Ege, Mechanicsburg, Pa. Dumping-wagon	617,994	Jan. 17	2154	480, 481	86	459
Richardson, Julius C., North East, Pa., assignor to E. Wende and L. H. Van Allen, Buffalo, N. Y. Nut-lock	627,206	June 20	1821	399	87	2006
Richardson, Nora E., Corsica, Ohio. Lunch-bucket	621,711	Mar. 21	2163	482	86	1947
Richardson, Robert, assignor to G. A. Mill, Glasgow, Scotland. Steering and warping gear	639,939	Dec. 26	3229	740	89	2555
Richardson, Walter W., Pomeroy, Wash. Straw-stacker	635,809	Oct. 31	3432	792	89	738
Richardson, William S., Boston, Mass. Tubular fastening	621,541	Mar. 21	1862	413	86	1886
Richardson, William S., Boston, Mass. Fastener for gloves	623,687	Apr. 25	2737	627	87	582
Richardson, William S., Boston, Mass. Fastener for gloves, &c	623,688	Apr. 25	2738	627	87	582
Richardson, William S., Boston, Mass., assignor to Ball and Socket Fastener Company, Boston, Mass., and Nashua, N. H. Fastener for gloves	631,440	Aug. 22	3180	722	88	1401
Richardson, William S., Boston, Mass., assignor to Ball and Socket Fastener Company, Nashua, N. H. Hook and eye	631,752	Aug. 22	3757	843	88	1512
Richardson, William S., Boston, Mass., assignor to Ball and Socket Fastener Company, Boston, Mass., and Nashua, N. H. Die for shaping and attaching socket members of fasteners for gloves, &c	635,188	Oct. 17	2236	521	89	476
Richenbacher, William J., Topeka, Kans. Milk cooling and aerating apparatus	620,671	Mar. 7	240	49	86	1548
Richman, Wilbert, Woodstown, N. J. Truck	637,284	Nov. 21	2042	438	89	1368
Richmann, John F., Fort Lee, N. J. Means for closing cans, bottles, jugs, jars, or similar vessels	619,347	Feb. 14	1023	231	86	1029
Richmond & Bachus Company. (See Barker, James, assignor.)						
Richmond, Cassius M., assignor to Richmond Gold and Silver Cigarette Company, New York, N. Y. Cigarette-wrapper	637,419	Nov. 21	2312	499	89	1423
Richmond Cedar Works. (See Reams and Smith, assignors.)						
Richmond, Charles T., assignor to National Carbon Company, Cleveland, Ohio. Galvanic battery	617,908	Jan. 17	2020	451	86	432
Richmond, Charles T., and M. M. Zellers, assignors to National Carbon Company, Cleveland, Ohio. Carbon-sorting machine	623,036	Apr. 11	1531	354, 355	87	312
Richmond, Edward J. (See Bliss and Richmond.)						
Richmond, Ernest T. (See Guest and Richmond.)						
Richmond Gold and Silver Cigarette Company. (See Richmond, Cassius M., assignor.)						
Richmond Locomotive and Machine Works. (See Mellin, Carl J., assignor.)						
Richmond, Thomas J., Jr., Eads, Tenn. Can-cutting machine	638,597	Dec. 5	773	168	89	2014
Richmond, Will F. (See Wolfe and Richmond.)						
Richter, Adolph, New York, N. Y. Pump	618,732	Jan. 31	3553	793	86	753
Richter, August, New York, N. Y. Piano	622,782	Apr. 11	1073	249	87	223
Richter, August, New York, N. Y. Piano	622,783	Apr. 11	1075	250	87	223
Richter, August, New York, N. Y. Upright-piano front	637,160	Nov. 14	1801	386	89	1306
Richter, Carl, Breslau, Germany. Horseshoe-calk	619,995	Feb. 21	2198	500	86	1280
Richter, Frank L., Cuero, Tex. Poison-distributer	637,666	Nov. 21	3126	648	89	1622
Richter, Frederick W., Chicago, Ill. Floor or sidewalk cleaner	625,850	May 30	3452	783	87	1451
Richter, Friedrich A., Rudolstadt, Germany. Fortune-telling apparatus	631,671	Aug. 22	3596	810, 811	88	1484
Richter, Friedrich A., Rudolstadt, Germany. Fortune-telling apparatus	631,672	Aug. 22	3599	811, 812	88	1484
Richter, Friedrich A., Rudolstadt, Germany. Fortune-telling apparatus	631,673	Aug. 22	3602	812, 813	88	1485
Richter, Friedrich M., Chemnitz, Germany. Telephone-switchboard	632,749	Sept. 12	1030	238	88	1925
Richter, Gustav, Pforzheim, Germany. Machine for making metal screw-covers	634,764	Oct. 10	1459	343, 344	89	306
Richter, Gustav F., New York, N. Y. Surgical instrument	620,853	Mar. 7	590	128	86	1618
Richter, Reinhard, Kiel, Germany. Rolling blind	629,524	July 25	2947	685	88	630
Richter-Sips, Traugott E., Leutzsch, Germany. Machine for cutting triangular pieces of tin-plate	620,499	Feb. 28	3071	702	86	1461
Rickard, Richard T., Honokaa, Hawaii. Coffee-pulping machine	620,053	Feb. 21	2310	524, 525	86	1301
Ricker, George E., *et al.* (See Huxley, Charles E., assignor.)						
Ricketts, William M., Columbus, Ohio. Rain-water filter	631,128	Aug. 15	2615	591	88	1270
Ricklefs, John E., Troy, Kans. Grain-drill	620,181	Feb. 28	2525	574	86	1358
Rickman, Franklin E., assignor of one-half to C. A. Hawthorn, New York, N. Y. Valve for pneumatic tires	621,849	Mar. 28	2438	544	86	2015
Rickmeier, Adolph O., Plymouth, and W. B. Hadley, Rice Lake, Wis. Scrubbing-machine	619,348	Feb. 14	1024	231	86	1030
Ricks, James, Washington, D. C. Overshoe for horses	626,245	June 6	51	12	87	1624
Riddell, Allan M., San Francisco, Cal. Support for open books	632,429	Sept. 5	390	89	88	1784
Riddell, John, assignor of one-fifth to A. F. Macdonald, Schenectady, N. Y. Grade-delineator	624,866	May 9	1689	383	87	1051
Riddett, James. (See Riddett, John and J.)						
Riddett, John and J., Yonkers, N. Y., assignors to H. C. England, Reading, Pa. Driving mechanism for bicycles	623,107	Apr. 11	1680	388	87	340
Riddick, Joseph H., Jr., Lynchburg, Va. Filter	633,368	Sept. 19	2217	521	88	2169
Rider, Charles E., Rochester, N. Y. Parquetry	623,562	Apr. 25	2518	577	87	541
Rider, Charles S., assignor to S. Howes Company, Silver Creek, N. Y. Packing-machine.	617,862	Jan. 17	1918	430	86	413
Rider, Charles S., assignor to S. Howes Company, Silver Creek, N. Y. Packing-machine.	617,863	Jan. 17	1920	430	86	413
Rider, Ebenezer W., Bay City, Mich. Magazine attachment for stoves or furnaces	625,417	May 23	2669	608	87	1279
Rider, Milford D., Pittsfield, Mass. Delivery attachment for envelop-machines	636,291	Nov. 7	116	25,26	89	945
Rider, Thomas J., *et al.* (See Cleasby, William H., assignor.)						
Ridge, James, Selbourne Hassocks, T. Mutton, and H. E. Hupton, Brighton, England. Apparatus for indicating and registering distance, &c	628,037	July 4	140	29,30	88	29
Ridge, Thomas S., Kansas City, Mo. Ore-concentrating machine	638,276	Dec. 5	151	34	89	1895
Ridgway, George E., Ashley, England. Apparatus for discharging sewage, &c., upon filter-beds	625,605	May 23	2984	678, 679, 680	87	1342
Ridgway, John J., New York, N. Y. Conveyer-belt	632,750	Sept. 12	1031	239	88	1925

Alphabetical list of patentees—Continued.

Name, residence, and invention.	No.	Date.	Monthly volume. Spec.	Monthly volume. Dr'g.	Official Gazette. Vol.	Official Gazette. Page.
Ridley, George J., Auburn, N. Y. Water-feeding device for grinding-wheels	618,293	Jan. 24	2742	607	86	584
Ridsdale, Charles, Chicago, Ill. Secondary battery	628,492	July 11	1012	236	88	215
Ridsdale, Charles H., Guisborough, England. Bicycle-support	631,998	Aug. 29	4194	943, 944	88	1608
Riebel, Leonard, Jr., Chariton, Iowa. Artificial limb	623,741	Apr. 25	2814	644, 645	87	596
Rieck, Adolf C. M., Hamburg, Germany. Extracting cacao-butter	636,849	Nov. 14	1173	------	89	1186
Riecke, August, Baltimore, Md. Elevated drawbridge fire-escape	619,439	Feb. 14	1195	270, 271	86	1061
Riecken, Hugo, London, England. Process of and apparatus for extracting precious metals from ores or slimes	619,349	Feb. 14	1026	231	86	1030
Riedel, H., *et al.* (See Griffin, Thomas J., assignor.) (Reissue.)						
Riedel, John M. E., and O. F. J. Grahl, Fort Wayne, Ind. Funnel	618,996	Feb. 7	392	82	86	886
Riedel, John M. E., and O. F. J. Grahl, Fort Wayne, Ind. Funnel	637,285	Nov. 21	2044	438	89	1368
Rieder, Richard, Freiberg, Germany. Dyeing leather	636,178	Oct. 31	4172	957	89	884
Rief, George W. (See Bucklin, Harry, assignor.)						
Rieffel, Arthur, Paris, France. Acetylene-gas generator	632,587	Sept. 5	687	159	88	1842
Rieg, Jacob, Wilkes-Barré, Pa. Support for portable hand-pumps	617,358	Jan. 10	955	220	86	206
Riehl, Henry, Jr. (See Sickel and Riehl.)						
Riely, Frank C., Washington, D. C. Letter-box	622,265	Apr. 4	114	26	87	25
Riemann, Hermann, Chemnitz-Gablenz, Germany. Acetylene-gas lamp	639,434	Dec. 19	2314	534	89	2353
Riemer, Albert H., Milwaukee, Wis. Shoe	621,287	Mar. 14	1397	310	86	1785
Riemer, John F., assignor of one-half to L. F. Riemer, Milwaukee, Wis. Boot or shoe	631,821	Aug. 29	3887	868	88	1549
Riemer, Louis F. (See Riemer, John F., assignor.)						
Riensch, Hermann, Wiesbaden, Germany. Apparatus for purifying refuse water	623,828	Apr. 25	3012	692	87	635
Rieppel, Anton, assignor to Maschinenbau-Actien-Gesellschaft Nürnberg, Nuremberg, Germany. Suspension-bridge	625,902	May 30	3556	807	87	1470
Rieppel, Anton, assignor to Maschinenbau-Actien-Gesellschaft Nürnberg, Nuremberg, Germany. Girder structure for suspension-railways	629,273	July 18	2445	566, 567	88	510
Ries, Elias E., assignor to Ries & Henderson, Baltimore, Md. Apparatus for line distribution by inductional transformers or secondary generators for electric railways	622,865	Apr. 11	1224	285	87	251
Ries, Elias E., New York, N. Y., assignor to United States Automatic Telephone Company, of New York. Automatic telephone	639,291	Dec. 19	2025	467, 468	89	2296
Ries & Henderson. (See Ries, Elias E., assignor.)						
Ries, Louis, assignor of one-half to J. W. Myers, Mendota, Ill. Bread-raiser and flour-warmer	635,980	Oct. 31	3772	870	89	803
Rietzke, Mathilda, Milwaukee, Wis. Kitchen-stove utensil	640,030	Dec. 26	3398	778	89	2590
Rietzinger, Christian, and W. D. Kavanagh, Philadelphia, Pa. Rim and cover for stop-cock boxes, &c	626,565	June 6	625	144	87	1736
Rife, Louis P., assignor to Clipper Plow Company, Defiance, Ohio. Cultivator	633,906	Sept. 26	3181	740, 741	88	2373
Riffel, William H., Herold, W. Va. Handle for implements	630,073	Aug. 1	663	142	88	854
Rigby, Clark F., Mannington, W. Va. Well-drilling machinery	632,537	Sept. 5	611	140	88	1828
Rigby, Holden. (See Crutchlow, William, assignor.)						
Rigdon, Isaac, Cincinnati, Ohio. Turbine engine	638,277	Dec. 5	153	34, 35	89	1895
Rigg, Edward L., Griswold, Iowa. Steam-generating appliance	631,822	Aug. 29	3888	868	88	1549
Rigg, George E., Mount Carmel, Ill. Automatic gate	620,967	Mar. 14	812	179	86	1672
Riggs, Albert T. (See Ball and Riggs.)						
Riggs, John A., Sheridan, Okla. Ter. Fence-post	623,181	Apr. 18	1832	419	87	384
Righter, Edmund K. (See Theemling, Jacob, assignor.)						
Rightmyer, Homer W., Rowlesburg, W. Va. Toy pistol	624,543	May 9	1108	250	87	937
Riglander, Jacob W., New York, N. Y. Watch-key	630,562	Aug. 8	1607	359	88	1050
Rigney, James J., assignor of one-half to C. Q. McWilliams and W. C. McConnell, Shamokin, Pa. Cutting-machine	638,065	Nov. 28	3868	814	89	1790
Riker, Andrew L. (See Whiting, Allan H., assignor.)						
Riker, Andrew L., New York, N. Y. Motor-vehicle	620,968	Mar. 14	814	179, 180	86	1672
Riker, Andrew L., New York, N. Y. Electrical steering mechanism	622,977	Apr. 11	1425	329	87	291
Riker, Andrew L., New York, N. Y. Motor-vehicle	623,037	Apr. 11	1535	355	87	313
Riker, Andrew L., New York, N. Y. Safety controller-lever for automobile vehicles	624,685	May 9	1346	300	87	984
Riker, Andrew L., New York, N. Y. Motor-vehicle. (Reissue)	11,760	July 18	2547	593	88	531
Riley, Bernard J., Harrison, N. J. Hinge	630,410	Aug. 8	1320	295	88	994
Riley, George, Leicester, England, assignor of two-thirds to Nye & Tredick, Philadelphia, Pa. Covering for buffing-wheels	630,109	Aug. 1	720	155	88	866
Riley, George, Leicester, England, assignor of two-thirds to Nye & Tredick, Philadelphia, Pa. Elastic fabric	630,110	Aug. 1	722	156	88	866
Riley, Lawrence T. (See Cook, John R., assignor.)						
Riley, Martin, Washington, D. C. Window	617,186	Jan. 3	618	145	86	121
Riley, Martin, Washington, D. C. Window	622,539	Apr. 4	644	151	87	122
Riley, Michael, London, Ohio. Railway-crossing signal	633,907	Sept. 26	3185	741	88	2374
Riley, Peter J., Weatherly, Pa., assignor of one-half to J. C. Read, Paterson, N. J., and J. W. Lovatt, Bethlehem, Pa. Mechanical movement	626,038	May 30	3861	875	87	1527
Riley, Watkin W. (See Slack and Riley.)						
Riley, William J., Birmingham, England. Banjo	636,179	Oct. 31	4173	958	89	884
Riley, William M., Chicago, Ill. Concrete-mixer	617,425	Jan. 10	1094	249	86	232
Rinearson, Abraham L., Horse Shoe Bend, Idaho. Hydraulic-power machine	622,978	Apr. 11	1427	329	87	292
Rinehart, Beecher H. (See Myers and Rinehart.)						
Rinehart, Wade H. (See Lape, John W., assignor.)						
Rinehart, William D. (See Dempster and Rinehart.)						
Riner, John C., *et al.* (See Speer and Hyatt, assignors.)						
Ring, Charles B. (See Benton, Henry, assignor.)						
Ring, George A., Chicago, Ill. Mustache-guard for spoons	621,944	Mar. 28	2620	550	86	2048
Ring, John H., Lowell, Mass. Valve	637,161	Nov. 14	1802	386, 387	89	1307
Ringeisen, John A., Francesville, Ind. Marker attachment for planters	628,038	July 4	144	30	88	29
Ringheim, Ole, Watonwan county, Minn. Traction-engine	631,383	Aug. 22	3077	696	88	1380
Ringi, Haakon S., Chicago Heights, Ill., assignor to American Cotton Company, New York, N. Y. Relief-valve	639,435	Dec 19	2315	534	89	2253
Rings, Franz, Cologne, Germany. Reflecting acetylene-lamp	627,656	June 27	2703	593	87	2198
Rinkel, Martin, Ashley, Ind. Steam-boiler	637,034	Nov. 14	1552	334	89	1260
Rinker, John E., Burlington, Iowa. Tenoning-machine	639,772	Dec. 26	2939	676	89	2498
Riotte, Carl C., New York, N. Y., assignor to C. C. Riotte Company, of New York. Gas-engine	616,974	Jan. 3	203	46	86	40
Riotte, Carl C., New York, N. Y., assignor to C. C. Riotte Company, of New York. Igniter for gas-engines	626,394	June 6	341	79	87	1679

Alphabetical list of patentees—Continued.

Name, residence, and invention.	No.	Date.	Monthly volume. Spec.	Monthly volume. Dr'g.	Official Gazette. Vol.	Official Gazette. Page.
Riotte, Carl C., New York, N. Y., assignor to C. C. Riotte Company, of New York. Reversing-gear	626,395	June 6	342	79, 80	87	1680
Riotte, Carl C., New York, N. Y., assignor to C. C. Riotte Company, of New York. Vaporizer for gas-engines	633,274	Sept. 19	2030	477, 478	88	2133
Riotte, Carl C., New York, N. Y., assignor to C. C. Riotte Company, of New York. Means for electric ignition for vapor-engines	633,275	Sept. 19	2032	478	88	2133
Ripley, Daniel C., assignor to United States Glass Company, Pittsburg, Pa. Glass lamp chimney and shade	618,806	Jan. 31	3685	825	86	781
Rippe, Dietrich, Lanham, Nebr. Awl	632,538	Sept. 5	612	141	88	1829
Ripper, William, Sheffield, England. Instrument for indicating continuously the mean effective pressure on engine-pistons	620,182	Feb. 28	2526	574	86	1358
Rippon, Amos, and I. Phillips, Wakeman, Ohio. Bag-holder	639,292	Dec. 19	2032	468	89	2297
Ris, Christopher, assignor to J. R. Geigy & Co., Basle, Switzerland. Black trisazo dye and making same	619,503	Feb. 14	1300	------	86	1084
Ris, Christopher, assignor to J. R. Geigy & Co., Basle, Switzerland. Stilbene azo dye	636,065	Oct. 31	3971	------	89	843
Ris, Christopher, assignor to J. R. Geigy & Co., Basle, Switzerland. Black cotton dye	636,066	Oct. 31	3972	------	89	843
Risbridger, John, North East, Pa. Commutator	625,202	May 16	2265	516	87	1178
Rischmuller, George, San Francisco, Cal. Car-fender	619,841	Feb. 21	1936	440, 441	86	1232
Risdon Iron and Locomotive Works. (See Moore, Robert S., assignor.)						
Risdon Iron and Locomotive Works. (See Postlethwaite, Robert H., assignor.)						
Rising, Frederick B., assignor to Goodell Company, Antrim, N. H. Table-cutlery	624,380	May 2	796	178	87	853
Risley, Arthur D., Richfield Springs, N. Y. Electrical-alarm matting	617,938	Jan. 17	2063	462	86	443
Risley, C. N., *et al.* (See Wood, Andrew J., assignor.)						
Risley, Isaac, Pleasantville, N. J. Typographic machine	626,097	May 30	3963	900, 901	87	1546
Risley, Isaac, and V. F. Lake, Pleasantville, N. J., assignors, by mesne assignments, to J. H. Borton, trustee. Typographic machine	620,183	Feb. 28	2527	574, 575, 576, 577, 578, 901, 902, 903, 904	86	1358
Risley, Isaac, and V. F. Lake, Pleasantville, N. J.; said Lake assignor to said Risley. Typographic machine	626,098	May 30	3967	905, 906, 907, 908, 909, 910	87	1546
Risley, William H., *et al.* (See Banwell, James, assignor.)						
Rison, Mastin L., assignor to Paris Spring Manufacturing Company, Paris, Tenn. Spring chair-seat	637,667	Nov. 21	3129	649	89	1622
Rison, Mastin L., assignor to Paris Spring Manufacturing Company, Paris, Tenn. Spring-handle for brooms	637,668	Nov. 21	3130	649	89	1623
Rissmuller, Ludwig, Newark, N. J., assignor, by mesne assignments, to General American Reduction Company, New York, N. Y. Centrifugal machine	622,712	Apr. 11	961	223	87	202
Ritchel, Charles F., assignor of one-half to J. P. Pinkerman, Bridgeport, Conn. Safety apparatus for elevator-cars	624,096	May 2	281	58	87	755
Ritchel, Charles F., assignor to Yankee Manufacturing Company, Bridgeport, Conn. Ink-well	632,588	Sept. 5	689	159	88	1842
Ritchey, Harry E. (See Coleman and Ritchey.)						
Ritchie, Harvey W. (See Ritchie, John and H. W.)						
Ritchie, James, New York, N. Y. Car-brake	640,031	Dec. 26	3399	779	89	2591
Ritchie, John and H. W., Chicago, Ill. Vessel propulsion	635,871	Oct. 31	3560	819, 820	89	761
Riter, John L., Brownsville, Ind. Whiffletree-hook	630,469	Aug. 8	1440	322	88	1017
Rites, Francis M., Ithaca, N. Y. Fluid-compressor	636,180	Oct. 31	4174	958, 959	89	885
Ritschard, William, East St. Louis, Ill. Post-hole digger	637,830	Nov. 28	3431	717	89	1703
Rittenhouse, Frank K. (See Foss, Byron E., assignor.)						
Rittenhouse, George, and D. Phelps, Kansas City, Mo. Street-car fender	619,790	Feb. 21	1849	422	86	1214
Rittenhouse, George M. (See Brady, Gordon W., assignor.)						
Rittenhouse, William H. (See Earl, Barbara F., assignor.)						
Ritter, Frank. (See May, Adam J., assignor.)						
Ritter, Frank, Rochester, N. Y. Dental chair	619,226	Feb. 7	808	176	86	970
Ritter, Fridrich, Portland, Oreg. Toy horse	621,945	Mar. 28	2620	591	86	2048
Ritter, Henry. (See Buckley, John J., assignor.)						
Ritter, Henry. (See Lunken and Ritter.)						
Ritter, Henry, assignor to Lunkenheimer Company, Cincinnati, Ohio. Sight-feed oil-cup	639,293	Dec. 19	2032	468	89	2298
Ritter, Henry J., Tippecanoe City, Ohio. Gate	618,619	Jan. 31	3348	744	86	713
Ritter, Henry J., Tippecanoe City, Ohio. Swinging chair	634,030	Oct. 3	84	22, 23	89	21
Ritter, Paul, Schöneck, Germany. Guitar	636,850	Nov. 14	1174	254	89	1186
Ritter, William J., Davenport, Iowa. Bush for bung-holes	622,266	Apr. 4	117	27	87	25
Ritzler, Eugene. (See Grueninger, Edward, assignor.)						
Ritzos, André P., Galata, Turkey. Boiler-furnace	629,606	July 25	3084	718	88	656
Rivard, Arthur M. (See Bieque and Rivard.)						
Riverside Rubber Company. (See Hollweg, Charles, assignor.)						
Rivett, Edward, Boston, Mass. Grinding or polishing machine	623,742	Apr. 25	2815	645	87	596
Rix, Edward A., and P. B. Donahoo, San Francisco, Cal. Dredging machinery	635,270	Oct. 17	2376	555	89	502
Rix, James M., Warner, N. H. Device for holding blotters	634,765	Oct. 10	1462	344	89	307
Roach, Harry F., St. Louis, Mo. Means for generating electricity from machinery of locomotives	617,187	Jan. 3	619	145, 146	86	121
Roach, Harry F., St. Louis, Mo. Means for generating electricity from machinery of locomotives	622,078	Mar. 28	2854	643	86	2095
Roach, John M. (See Just, Paul C., assignor.)						
Roach, John M. (See Lynch, Vernon T., assignor.)						
Roach, John M., Chicago, Ill. Vehicle-guard	625,807	May 30	3376	766	87	1436
Roach, William F., Hastings, Pa. Pump	631,324	Aug. 22	2972	672	88	1359
Roadman, William, Kregar, Pa. Packing for pistons	633,042	Sept. 12	1558	362	88	2028
Roantree, James E., Canastota, N. Y. Book-mark or leaf-holder	620,363	Feb. 28	2860	654	86	1421
Robb, John R., San Francisco, Cal. Bottle-washing machine	624,097	May 2	283	58	87	755
Robb, Russell. (See Sawyer and Robb.)						
Robbins, Charles A., New York, N. Y. Packing-box	620,054	Feb. 21	2311	525	86	1301

Alphabetical list of patentees—Continued.

Name, residence, and invention.	No.	Date.	Monthly volume.		Official Gazette.	
			Spec.	Dr'g.	Vol.	Page.
Robbins, F. A. (See Lotz, August, assignor.)						
Robbins, Frederick O., assignor to Townsend Manufacturing Company, San Francisco, Cal. Regulator for gas-burners	626,099	May 30	3991	910	87	1549
Robbins, George A., assignor of one-third to C. M. Wood, Slate Hill, N. Y. Music-leaf turner	639,613	Dec. 19	2617	601, 602	89	2416
Robbins, John S. (See Spalding and Robbins.)						
Robbins, Michael C., Harrisonville, Mo. Tower for windmills	637,420	Nov. 21	2313	499	89	1423
Robbins, Raymond, assignor of one-half to P. B. Kleckner, Richmond, Ind. Harp	617,514	Jan. 10	1238	283	86	261
Robbins, Victor E., assignor to himself and H. M. W. Eastman, Roslyn, N. Y. King-bolt for wagons	620,672	Mar. 7	242	50	86	1549
Robbins, William R., *et al.* (See Fergusson, Alan R., assignor.)						
Roberg, Claes F., Chicago, Ill. Car-seal	617,426	Jan. 10	1096	250	86	232
Roberts, Aden H., Bernice, assignor of one-half to C. M. Pratt, Towanda, Pa. Slate-picker	617,815	Jan. 17	1835	410	86	397
Roberts, Albert E., Norwalk, assignor of one-half to N. P. Bowler, Cleveland, Ohio. Over-shoe	626,299	June 6	149	36	87	1643
Roberts, Charles C., Ansonia, Conn. Apparatus for cleaning and coating sheet-metal plates	617,656	Jan. 10	1507	343	86	313
Roberts, Charles F., Concord, N. H. Draft-inducer	623,743	Apr. 25	2817	645	87	597
Roberts, Clarence V., assignor to Thomas, Roberts, Stevenson Company, Philadelphia, Pa. Gas attachment for stoves or ranges	622,540	Apr. 4	644	151, 152	87	122
Roberts, David J., Pittsburg, Pa. Tripod	632,064	Aug. 29	4327	972	88	1634
Roberts, Edwin, assignor of one-half to C. M. Ballantyne, Sydney, New South Wales. Ax-head	622,395	Apr. 4	331	76	87	63
Roberts, Frank, *et al.* (See Durnell, Cecil M., assignor.)						
Roberts, Frank, Belle Plaine, Iowa. Pneumatic straw-stacker	617,939	Jan. 17	2064	463	86	443
Roberts, Frank E., assignor of one-half to M. F. Munson, Toledo, Ohio. Spring	633,328	Sept. 19	2149	503	88	2156
Roberts, Frank J. S., Toronto, Canada. Portable oven	626,773	June 13	1013	228, 229, 230	87	1829
Roberts, Fred H., Somerville, Mass. Confectionery-holder. (Reissue)	11,726	Mar. 21	2303	517	86	1973
Roberts, Fred H., Somerville, Mass. Confectionery-package	622,396	Apr. 4	332	77	87	63
Roberts, George, Wheeling, W. Va. Shutter	620,969	Mar. 14	818	180	86	1672
Roberts, George P., Lacey, Ark. Machine for cleaning and straightening gin-saw teeth	619,842	Feb. 21	1940	441	86	1233
Roberts, Grace, New York, N. Y. Safety-fastener for dress-shields	625,061	May 16	2028	456	87	1133
Roberts, Grace, New York, N. Y. Dress-shield and fastener therefor	625,062	May 16	2029	457	87	1133
Roberts, Henry P., Boston, assignor to G. O. Russell, Lexington, and N. W. Sanborn, Malden, Mass. Bracket for roller-curtains and curtain-rods	631,674	Aug. 22	3605	813	88	1486
Roberts, Hiram C, Philadelphia, Pa. Electrician's or plumber's torch	626,723	June 13	925	210	87	1812
Roberts, Homer J., Chicago, Ill. Boring-machine	628,992	July 18	1953	454, 455	88	417
Roberts Iron Works Company. (See Thornton, Henry H., assignor.)						
Roberts, Isaiah L., New York, N. Y. Reducing metallic compounds and producing metallic carbids	629,394	July 25	2683	625	88	579
Roberts, Isaiah L., New York, N. Y. Electrode and making same	638,278	Dec. 5	155	35	89	1896
Roberts, James T., Anderson, S. C. Fabric-tufting machine	632,927	Sept. 12	1367	315	88	1991
Roberts, John C., Bedford, Pa. Batter-machine	629,607	July 25	3086	718, 719	88	656
Roberts, John C., Bedford, Pa. Beater and sifter	629,608	July 25	3088	719	88	657
Roberts, John E., *et al.* (See Leineweber, Herman, assignor.)						
Roberts, John E., Onedia, Ky. Locomotive-engine	626,566	June 6	626	144, 145	87	1736
Roberts, John F., *et al.* (See Curley, Patrick H., assignor.)						
Roberts, John G., New York, N. Y. Toy	624,251	May 2	567	121	87	807
Roberts, John N., Indianapolis, Ind. Jointing-clamp	617,123	Jan. 3	507	121	86	99
Roberts, Lemuel, *et al.* (See Elleser, John C., assignor.)						
Roberts, Lemuel S., assignor to Peck-Williamson Heating and Ventilating Company, Cincinnati, Ohio. Clothes-drier	636,067	Oct. 31	3973	908	89	843
Roberts, Lemuel T., Toledo, Ohio. Screw-propeller	635,899	Oct. 31	3624	835	89	775
Roberts, Leslie M., *et al.* (See Hall, Clifford P., assignor.)						
Roberts Manufacturing Company. (See Armstrong and Mulconroy, assignors.)						
Roberts, Margaret L., Indianapolis, Ind. Hat	620,970	Mar. 14	823	180	86	1673
Roberts, Peter R., Pittsburg, Pa. Combination-tool	618,133	Jan. 24	2446	545, 546	86	529
Roberts, Preston J., Jr., *et al.* (See Durnell, Cecil M., assignor.)						
Roberts, Robert R., Washington, D. C. Cane-mill	639,436	Dec. 19	2316	534, 535	89	2353
Roberts, T. Herbert. (See Schilling, Robert P., assignor.)						
Roberts, Throp & Company. (See Donovan, James, assignor.)						
Roberts, William C., *et al.* (See Durnell, Cecil M., assignor.)						
Roberts, William E., Butte, Mont. Heating or roasting furnace	626,632	June 6	736	169, 170	87	1757
Roberts, William P., Portville, N. Y. Leather-ironing machine	637,669	Nov. 21	3131	649, 650	89	1623
Robertshaw, Frederick W., Pittsburg, Pa. Tap and die	621,288	Mar. 14	1398	310	86	1785
Robertson, Archibald J., *et al.* (See Brown, Benjamin, assignor.)						
Robertson, Charles E. (See Taylor and Robertson.)						
Robertson, Cullen A., assignor of one-half to C. W. Ennis, Milledgeville, Ga. Lighting attachment for alarm-clocks	629,609	July 25	3089	719	88	657
Robertson, David, Jr., Uddingston, Scotland. Surface-contact electric railway	638,186	Nov. 28	4124	871	89	1841
Robertson, Enoch T., El Dorado Springs, Mo. Wagon-brake	633,276	Sept. 19	2034	478	88	2134
Robertson, Frank W. (See Rogers and Robertson.)						
Robertson, Frederick C., Toronto, Canada. Circuit-breaker or line-opener	639,688	Dec. 19	2775	641	89	2447
Robertson, James, Rainhill, England. Apparatus for shaping, forging, drawing, solidifying, and squirting metals	629,610	July 25	3091	720, 721	88	657
Robertson, James, Rainhill, England. Hydraulic apparatus	629,611	July 25	3097	721	88	658
Robertson, James, New Brighton, New Zealand. Automatic window-lock	633,491	Sept. 19	2426	571	88	2210
Robertson, James B., Keokuk, Iowa. Wagon-tongue support	624,980	May 16	1894	425	87	1109
Robertson, James H., New York, N. Y. Duplex faradic battery	619,440	Feb. 14	1197	271	86	1061
Robertson, John H., New York, N. Y. Railway-car	621,142	Mar. 14	1145	249	86	1735
Robertson, John H., New York, N.Y. Machine for scraping, sweeping, and sanding tracks	626,039	May 30	3862	875	87	1527
Robertson, Judah T., New York, N. Y. Plate-printing press	622,168	Mar. 28	3038	687, 688	86	2132
Robertson, Judah T., and H. G. Mandel, assignors to American Bank Note Company, New York, N. Y. Printing	617,909	Jan. 17	2021	451	86	432
Robertson, Oliver H., Forestville, Conn. Cattle-stanchion	634,477	Oct. 10	955	227	89	208

Alphabetical list of patentees—Continued.

Name, residence, and invention.	No.	Date.	Monthly volume.		Official Gazette.	
			Spec.	Dr'g.	Vol.	Page.
Robertson, Roderick. (See Woodward, Dunn, and Robertson.)						
Robertson, Roderick, *et al.* (See Gilliland, Ezra T., assignor.)						
Robertson, Thomas. (See Baker, John, assignor.)						
Robertson, Thomas, Toronto, Canada. Confectionery-ornamenting machine	618,482	Jan. 31	3099	686	86	666
Robertson, Viola J., Weatherford, Okla. Ter. Churn	638,598	Dec. 5	774	168	89	2014
Robertson, William, Buffalo, N. Y. Tool-handle	639,773	Dec. 26	2941	676	89	2498
Robeson, George M., Farmville, Va. Plow-handle-bending machine	621,713	Mar. 21	2165	482	86	1947
Robeson, James H., Newburg, N. Y. Fruit-jar holder	638,646	Dec. 5	862	188	89	2032
Robichan, Joseph B., Beverly, Mass. Steel square	628,853	July 11	1698	396	88	351
Robin, Joseph T., New York, N. Y. Fastening device for wearing-apparel	637,286	Nov. 21	2046	439	89	1368
Robin, Joseph T., New York, N. Y. Fastening device	639,940	Dec. 26	3230	741	89	2556
Robins, Samuel P. B., Pittsburg, Pa. Non-refillable bottle	632,751	Sept. 12	1032	239	88	1925
Robinson, Albert, Arbela, Mo. Spring-hinge	632,850	Sept. 12	1221	279	88	1965
Robinson, Albert S., Albany, N. Y., assignor to Empire Implement Manufacturing Company, of New York. Machine for grinding cutter-bars of mowing-machines	639,774	Dec. 26	2942	677	89	2498
Robinson, Alfred, Abercorn, Canada. Curd-agitator	632,367	Sept. 5	282	66	88	1763
Robinson, Andrew, Jr., New York, N. Y. Roller axle-box	620,673	Mar. 7	243	50	86	1549
Robinson, Andrew J., Boston, Mass. Valve	622,267	Apr. 4	118	27	87	25
Robinson, Andrew J., Boston, Mass., assignor to Xntric Valve Company, Portland, Me. Means for securing lever-arms to their shafts	617,124	Jan. 3	509	121	86	100
Robinson, Arthur B., Dickinson, N. D. Multiple mandrel attachment for phonographs	634,025	Oct. 3	76	20	89	19
Robinson, Arthur S. F., Wantage, England. Engine-governor	627,353	June 20	2104	464 465	87	2063
Robinson, Arthur W., Milwaukee, Wis. Steam-shovel	632,368	Sept. 5	285	66	88	1763
Robinson, Arthur W., Milwaukee, Wis. Cutter-head for dredges	637,831	Nov. 28	3432	717 718	89	1703
Robinson, Austin M. (See Wills, Jessie T., assignor.)						
Robinson, Charles. (See Faust, Jacob, assignor.)						
Robinson, Charles A., assignor to Ideal Fuel Feeder Company, Hempstead, N. Y. Nozzle for feeding fine fuel to furnaces	639,437	Dec. 19	2319	535	89	2354
Robinson, Charley S., Sharpsville, Pa. Blast-furnace	632,147	Aug. 29	4485	1010	88	1667
Robinson, Clark, Hartley, Iowa. Heating device for wagon-tires and stoves	630,411	Aug. 8	1321	295	88	994
Robinson, Cornelia S., New York, N. Y. Garbage-receptacle and closet for same	626,567	June 6	628	145	87	1736
Robinson, Cyrus R., East Concord, N. H. Fire-hose support	630,563	Aug. 8	1608	360	88	1050
Robinson, De Lorme W., *et al.* (See Densmore, Charles, assignor.)						
Robinson, Dighton A., Minneapolis, Minn. Coal-pocket	622,018	Mar. 28	2759	622	86	2076
Robinson, Dighton A., Minneapolis, Minn. Swiveled spout for elevators	622,019	Mar. 28	2760	622 623	86	2077
Robinson, Dighton A., Minneapolis, Minn. Subdivision of grain-bins	638,279	Dec. 5	156	35	89	1896
Robinson, Dighton A., Minneapolis, and M. Toltz, St. Paul, Minn. Grain-bin	638,280	Dec. 5	159	36	89	1897
Robinson, Edwin A., and V. Piron, Lowell, Mass.; said Piron assignor to said Robinson. Warp stop-motion for looms	624,252	May 2	567	121	87	808
Robinson, Ella B. (See Robinson, William H., assignor.)						
Robinson, Ellsworth, assignor of one-half to J. Crawford, Newton, Iowa. Railway-rail joint	628,416	July 4	868	203 204	88	167
Robinson, Frank, Flint, assignor of one-half to E. D. Kennedy, Detroit, and B. J. Sturn, Fenton, Mich. Stove or furnace	617,657	Jan. 10	1510	343	86	314
Robinson, Frank J , aud J. H. Downard, Courtois, Mo.; said Downard assignor to said Robinson. Box-fastener	620,055	Feb. 21	2313	525	86	1302
Robinson, Frank, H. T. Emerson, and W. O. Carlson, Menominee, Mich.; said Carlson assignor to D. M. Raiche, Marinette, Wis. Flushing device for water-closets	628,357	July 4	765	178	88	147
Robinson, Franklin C., Brunswick, Me. Vaporizer	618,907	Feb 7	155	33	86	835
Robinson, George, assignor of one-half to T. Brown, Pahiatua, Wellington, New Zealand. Can-opener	635,810	Oct. 31	3434	792	89	738
Robinson, George K., *et al.* (See Yonge, Chandler I., assignor.)						
Robinson, Harry A., Evanston, Ill., assignor, by mesne assignments, to American Steel and Wire Company, of Illinois. Wire-stretcher	620,971	Mar. 14	823	181	86	1673
Robinson, Harry C., Muncy, Pa. Flour-bolting machine	633,613	Sept. 25	2683	625	88	2273
Robinson, James E., Chicago, Ill. Bicycle handle-bar-grip clamp	626,633	June 6	739	170	87	1758
Robinson, James E., Covington, Ga. Railway-frog	633,158	Sept. 19	1813	426	88	2090
Robinson, James F. (See Smith, Charles W., assignor.)						
Robinson, James H., Minneapolis, Minn. Life-saving guard for locomotives	621,143	Mar. 14	1147	249	86	1736
Robinson, James H., Lewiston, Idaho. Spur	625,063	May 16	2030	457	87	1134
Robinson, James H , assignor of three-fourths to H. H. Thayer, Minneapolis, Minn. Life-saving guard for street-cars	623,929	Apr. 25	3200	737	87	670
Robinson, James R., Monongahela City, Pa. Oiler for wheels	621,850	Mar. 28	2440	544	86	2015
Robinson, John A., Adams, assignor to Mason Machine Works, Taunton, Mass. Warp controlling means for looms	627,445	June 20	2299	505	87	2101
Robinson, John C., Hampton, Va. Fishing-net sinker	624,867	May 9	1693	383	87	1052
Robinson, John M., assignor of one-half to E. Ketterer, Bozeman, Mont. Combined land grader and roller	619,504	Feb. 14	1301	298	86	1084
Robinson, Joseph, assignor to E. Sandow, London, England. Dumb-bell	630,741	Aug. 8	1908	430	88	1107
Robinson, La Fayette G., assignor to J. A. Fay & Egan Company, Cincinnati, Ohio. Spoke-lathe	639,294	Dec. 19	2034	468 469	89	2298
Robinson-Rae Manufacturing Company. (See Kaye, Ellsworth E., assignor.)						
Robinson, Richard, Biloxi, Miss. Cake-dough mixer	636,559	Nov. 7	590	130	89	1041
Robinson, Richard T., *et al.* (See Shedd, Hugh E., assignor.)						
Robinson, Robert P., Wilkes-Barré, Pa. Fountain-pen	631,823	Aug. 29	3889	868	88	1549
Robinson, Robert P., Wilkes-Barré, Pa. Fountain-pen	631,824	Aug. 29	3890	868	88	1549
Robinson, Robert R., New York, N. Y. Guide-support for compasses	626,246	June 6	52	12	87	1625
Robinson, Stillman W., and E. A. Hitchcock, Columbus, Ohio. Automatic air-brake mechanism	622,020	Mar. 28	2763	623	86	2077
Robinson, Thomas C., Boston, assignor of one-half to A. E. Denison and E. B. Welch, Cambridge, Mass. Electrical hammering-machine. (Reissue)	11,710	Jan. 24	2929	647	86	621
Robinson, Thomas M., Washington, D. C. Feed-water heater for steam fire-engines	627,880	June 27	3098	678	87	2274
Robinson, Wade, New York, N. Y. Pen-cleaner	620,674	Mar. 7	244	50	86	1549
Robinson, William. (See Greenawalt, John E., assignor.)						
Robinson, William D., Philadelphia, Pa. Magazine-camera	619,695	Feb. 14	1647	377 378	86	1149
Robinson, William H., assignor to E. B. Robinson, St Louis, Mo. Fire-extinguisher	619,619	Feb. 14	1489	340	86	1118
Robinson, William H., assignor of one-half to J. A. Kramer, Marion, Iowa. Wrench	634,216	Oct. 3	435	111	89	91
Robinson, William W., Ripon, Wis. Cucumber-picker	628,854	July 11	1700	396	88	351
Robinson, Winifred M., Shubenacadie, assignor of one-half to S. M. Brookfield, Halifax, Canada. Concrete	617,427	Jan. 10	1098	------	86	233
Robiole, Emile, New York, N. Y. Fire-escape	622,079	Mar. 28	2856	644	86	2096
Robison, Elliott S., Chicago, Ill. Means for operating elevator-doors	632,369	Sept. 5	287	66, 67	88	1764

Alphabetical list of patentees—Continued.

Name, residence, and invention.	No.	Date.	Monthly volume.		Official Gazette.	
			Spec.	Dr'g.	Vol.	Page.
Robison, Robert F., Chicago, Ill. Driving mechanism for bicycles	639,295	Dec. 19	2037	469	89	2299
Robison, William C., Wellington, New Zealand. Thimble	629,174	July 18	2286	531	88	481
Robitschek, Max, assignor of one-half to L. von Herz, Vienna, Austria-Hungary. Apparatus for ventilating and cooling stoke-holes of steamships	634,563	Oct. 10	1114	264, 265	89	240
Robken, Charles, Argenta, Ark. Dust-collector	618,908	Feb. 7	155	33	86	836
Robnett, Clarence W., Lewiston, Idaho. Key-fastener	629,922	Aug. 1	343	76	88	789
Robson, James T., assignor of two-thirds to C. H. Marsden and H. W. Headland, London, England. Electric motor	629,872	Aug. 1	223	50	88	763
Robuck, Charles B., Denver, Colo. Valve for inflation	633,106	Sept. 12	1706	401	88	2057
Roby, George L., Albion, Mich. Motor-vehicle	619,505	Feb. 14	1303	299, 300	86	1085
Roby, Henry W., assignor of one-half to L. L. Roby, Topeka, Kans. Bicycle support or rest	617,448	Jan. 10	1132	258	86	239
Roby, Henry W., assignor of one-half to L. L. Roby, Topeka, Kans. Bicycle support or rest	619,696	Feb. 14	1649	378	86	1150
Roby, L. L. (See Roby, Henry W., assignor.)						
Roche, Charles. (See Keyser and Roche.)						
Roche, David, London, England. Structure for use in decorating or like purposes	631,406	Aug. 22	3115	706	88	1387
Roche, Edward, Providence, R. I. Boot or shoe	634,588	Oct. 10	1153	274	89	247
Roche, James C., Rochester, N. Y. Railway-torpedo	630,981	Aug. 15	2243	511	88	1199
Roche, John A. (See Heermans and Whichello, assignors.)						
Roche, John D., Union, N. J. Safety device for car-couplings	621,144	Mar. 14	1149	250	86	1736
Roche, John D., Union, N. J. Safety device for car-couplings	629,923	Aug. 1	344	76	88	789
Roche, John D., Union, N. J. Device for closing bottles	630,564	Aug. 8	1609	360	88	1050
Roche, William, Jersey City, N. J. Electrical binding-post	634,766	Oct. 10	1463	344	89	307
Rochester Camera and Supply Company. (See Carlton and Hatbaway, assignors.)						
Rochester Cycle Manufacturing Company. (See Kenfield, William W., assignor.)						
Rock, Adolphe, San Francisco, Cal. Rotary pump	630,932	Aug. 15	2244	512	88	1199
Rock Island Plow Company. (See Regester, Thomas L., assignor.)						
Rock Island Plow Company. (See Tinsman, Samuel H., assignor.)						
Rock, Richard. (See Christie and Rock.)						
Rockenbaugh, Adam, and D. J. Miller, Millersburg, Ind. Automatic windmill-regulator	639,827	Dec. 26	3034	698	89	2517
Rockstroh & Schneider Nachfolger. (See Markmann, Johann H. F., assignor.)						
Rockwell, Albert F., assignor to New Departure Bell Company, Bristol, Conn. Alarm-bell mechanism	631,325	Aug. 22	2973	672, 673	88	1359
Rockwell, Albert F., assignor to New Departure Bell Company, Bristol, Conn. Case for cyclometers	638,401	Dec. 5	411	86	89	1944
Rockwell, Edward D., assignor to Bristol Bell Company, Bristol, Conn. Bicycle-bell	621,759	Mar. 21	2268	511	86	1966
Rockwell, Edward D., assignor to Liberty Bell Company, Bristol, Conn. Bell	636,181	Oct. 31	4178	959	89	885
Rockwell, George J. (See Keene, Philip J., assignor.)						
Rockwell, Henry H., and C. F. Gerlach, assignors to Rockwell Manufacturing Company, Milwaukee, Wis. Boring-machine	620,614	Mar. 7	118	24	86	1525
Rockwell, Lucius A., *et al.* (See Butler, Howard H., assignor.)						
Rockwell Manufacturing Company. (See Rockwell and Gerlach, assignors.)						
Rocquin, Marie C., Deer Brook, Canada. Gun	629,209	July 18	2344	543, 544	88	492
Rodde, Carl F., Gross Lichterfelde, Germany, assignor to Siemens & Halske Electric Company of America, Chicago, Ill. Electrical measuring and indicating apparatus	633,702	Sept. 26	2841	661	88	2305
Roddy, John T. (See McCord, Luther A., assignor.)						
Rodefield, August, Richmond, Ind. Well-drilling machine	623,182	Apr. 18	1833	419, 420	87	384
Rodenberger, Edwin M. (See Seely and Rodenberger.)						
Rodenberger, John, Friendsbip, Kans. Grain-drill	627,830	June 27	3006	657	87	2257
Rodewald, John H. (See Sanders, Thomas, assignor.)						
Rodgers, David, Paterson, N. J. Plastic material for manufacturing shuttles, bobbins, &c.	627,207	June 20	1823	------	87	2006
Rodgers, George B., Knoxville, Tenn. Telephone-switchboard system and annunciator	622,268	Apr. 4	119	27	87	26
Rodgers, Howard S., Covington, Ky. Signaling device for railway-cars	635,391	Oct. 24	2632	607	89	569
Rodgers, Sauson M., and E. Scott, Pittsburg, Pa. Car-brake	628,550	July 11	1132	264	88	238
Rodler, Ferdinand G., Davenport, Iowa Button-making machine	620,184	Feb. 28	2551	578	86	1360
Rodriguez, Miguel R., Victoria, assignor of one-half to W. H. Wylie, Victoria county, Tex. Method of and apparatus for tanning hides	623,563	Apr. 25	2519	578	87	541
Roe, Charles, Bristol, Conn. Eyeglass-holder	627,208	June 20	1824	399	87	2006
Roe, Charles and H., Aston, and H. Knight, Coventry, England. Power-transmitting mechanism for motor-vehicles	625,808	May 30	3378	767	87	1436
Roe, Henry. (See Roe and Knight.)						
Roebuck, Alvab C. (See McMillan and Roebuck.)						
Roebuck, Alvah C., and F. McMillan, Chicago, Ill. Kinetoscopic apparatus	632,472	Sept. 5	476	108	88	1801
Roeder, William D, Dwight. Ill. Threshold for doors	618,013	Jan. 17	2187	489	86	465
Roeder, William D., Dwight, Ill. Antirattling thill-coupling	629,924	Aug. 1	345	76	88	789
Roederer, Ignaz, Prague, Austria-Hungary. Double machine-tool	627,354	June 20	2106	465, 466	87	2063
Roels, Hortense, Laeken, Belgium. Folding bedstead for invalids or children	630,111	Aug. 1	723	156	88	867
Roenius, Edmund, Grand Rapids, Wis. Soap-hanger	617,259	Jan. 3	754	176	86	148
Roenius, Edmund, Grand Rapids, Wis. Neck-yoke coupling	622,979	Apr. 11	1429	329	87	292
Roepke, Carl A., Manchester, England Hinge	622,784	Apr. 11	1077	250	87	223
Roesch, Alfred, Bridgeport, Conn. Thermostat	624,098	May 2	284	58	87	755
Roesch, Alfred, Bridgeport, Conn. Pump for compressing air	624,099	May 2	285	59	87	755
Roesch, Alfred, Bridgeport, Conn., assignor to Davis & Roesch Temperature Controlling Company, of New Jersey. Automatic temperature-regulator	625,518	May 23	2838	647	87	1313
Roesen, Oscar, assignor to R. Hoe, T. H. Mead, and C. W. Carpenter, New York, N. Y. Printing-press	629,968	Aug. 1	452	97	88	812
Roessler & Hasslacher Chemical Company. (See Voigt and Haeffner, assignors.)						
Roettger, August. (See Diggs and Roettger.)						
Rofinot, Alfred M., *et al.* (See Evans, Roland, assignor.)						
Rogalsky, Herman. (See Wall and Rogalsky.)						
Rogers, Andrew W., assignor to S. W. Winslow, trustee, Beverly, Mass. Abrasive pad-cover for buffing-machines	631,675	Aug. 22	3606	814	88	1486
Rogers, Andrew W., and S. W. Winslow, assignors to S. W. Winslow, trustee, Beverly, Mass. Making abrasive pad-covers for buffing-machines	626,300	June 6	151	36	87	1643
Rogers, Andrew W., and S. W. Winslow, assignors to S. W. Winslow, trustee, Beverly, Mass. Making abrasive pad-covers for buffing-machines	626,301	June 6	152	37	87	1643
Rogers, Arthur H., and H. W. Patrick Birmingham, England. Back-fork end for cycles	623,830	Apr. 25	3016	693	87	636
Rogers, Arthur H., and H. W. Patrick, Birmingham, England. Back-pedaling brake	625,606	May 23	2986	680	87	1342
Rogers, Arthur H., and H. W. Patrick, Birmingham, England. Back-pedaling brake. (Reissue)	11,773	Sept. 19	2543	596	88	2231
Rogers, Burt T., Springfield, Mass. Base-ball mask	628,724	July 11	1465	340	88	305

Alphabetical list of patentees—Continued.

Name, residence, and invention.	No.	Date.	Monthly volume.		Official Gazette.	
			Spec.	Dr'g.	Vol.	Page.
Rogers, Charles C., Brockton, Mass. Harness-support for fire-engine use	617,188	Jan. 3	623	146	86	122
Rogers, Charles W., assignor of one-half to J. W. and A. Mathis, Chicago, Ill.. Automatic damper for heating and ventilating systems	631,753	Aug. 22	3758	843	88	1513
Rogers, Clarence E., Harper, Kans. Folding crate or coop	634,031	Oct. 3	87	23	89	21
Rogers, Ethan, Ballston, N. Y. Making tool-blanks	622,269	Apr. 4	122	27	87	26
Rogers, Ethan, Ballston, N. Y. Making tool-blanks	623,384	Apr. 18	2196	503, 504	87	459
Rogers, Ernest R., and J. F. Cushman, Mystic, Conn. Power mechanism	626,844	June 13	1164	259, 260	87	1857
Rogers, Frances E. (See Rogers, William H. H., assignor.)						
Rogers, Frank F., and J. Rudge, Port Huron, Mich.; said Rogers assignor to said Rudge. Combined catch-basin and sewer-inlet	623,108	Apr. 11	1681	388	87	340
Rogers, George H., Birmingham, Ala. Paper-file	624,544	May 9	1710	250	87	937
Rogers, George H., Birmingham, Ala. Copy-holder	625,064	May 16	2031	457	87	1134
Rogers, George H., Birmingham, Ala. Deposit and check book	632,752	Sept. 12	1033	239	88	1926
Rogers, George R., Parkersburg, Ind. Gate	631,969	Aug. 29	4141	932	88	1598
Rogers, George T. (See Jordan, Edward, assignor.)						
Rogers, Isaac N., New York, N. Y. Safety-brake for elevator-cars	619,227	Feb. 7	810	177	86	971
Rogers, John A. (See Dickinson, Sanford B., assignor.)						
Rogers, John R., New York, N. Y., assignor to Mergenthaler Linotype Company, of New York. Linotype-machine	619,441	Feb. 14	1198	271	86	1062
Rogers, John R., New York, N. Y., assignor to Mergenthaler Linotype Company, of New York. Linotype-machine	620,804	Mar. 7	494	105	86	1599
Rogers, John R., New York, N. Y., assignor to Mergenthaler Linotype Company, of New York. Linotype-machine	630,112	Aug. 1	724	156	88	867
Rogers, John R., New York, N. Y., assignor to Mergenthaler Linotype Company, of New York. Mechanism for assembling and distributing type-dies	630,412	Aug. 8	1322	295, 296, 297	88	995
Rogers, John R., New York, N. Y., assignor to Mergenthaler Linotype Company, of New York. Linotype-machine	640,032	Dec. 26	3400	779	89	2591
Rogers, John R., New York, N. Y., assignor to Mergenthaler Linotype Company, of New York. Linotype-machine	640,033	Dec. 26	3403	780, 781	89	2592
Rogers, Jonathan J., and O. S. Kennedy, Fort Worth, Tex. Seeding attachment for disk harrows	634,997	Oct. 17	1871	444	89	405
Rogers Liquid Meter Company. (See Byron, John M., assignor.)						
Rogers, Mary S., Glendale, Ohio. Garment-supporter	632,753	Sept. 12	1035	240	88	1926
Rogers, Noah C. (See Van Hoevenbergh, Henry, assignor.)						
Rogers, Percy S., Boston, Mass. Nozzle or faucet	618,188	Jan. 24	2563	567	86	550
Rogers, Samuel C., *et al.* (See Bertram, John, assignor.)						
Rogers, William G. (See Burghardt and Rogers.)						
Rogers, William G., Denver, Colo. Saw-vise	622,169	Mar. 28	3041	688	86	2133
Rogers, William G., Denver, Colo. Saw-setting device	622,170	Mar. 28	3043	688	86	2133
Rogers, William G., assignor of one-half to D. W. Bradford, Denver Colo. Folding stove	618,014	Jan. 17	2188	489	86	465
Rogers, William H., Watertown, N. Y. Screen-door	638,812	Dec. 12	1176	263	89	2116
Rogers, William H. H., assignor to F. E. Rogers, New York, N. Y. Egg-carrier	639,865	Dec. 26	3098	712	89	2529
Rogers, William W., and F. W. Robertson, Covington, Ky. Supply-pipe for locomotive-tanks	633,277	Sept. 19	2036	478	88	2134
Rogers, Winfield S., assignor to Ball-Bearing Company, Boston, Mass. Roller thrust-bearing	639,775	Dec. 26	2946	677	89	2499
Rogginger, John. (See Brumder and Rogginger.)						
Rogowski, John, San Francisco, Cal. Wave-power water-moving apparatus	630,006	Aug. 1	521	115	88	826
Rohlin, John, assignor to E. Adams and A. E. Shaw, Eureka, Kans. Thill-coupling	619,089	Feb. 7	552	116	86	918
Rohm, Henry. (See Stenger, Julius, assignor.)						
Rohm, Henry A., assignor of one-half to J. Stenger, Sayville, N. Y. Smoking-pipe attachment	630,074	Aug. 1	664	143	88	854
Rohrbach, Gabriel, Del Rio, Tex. Turn-table lock	620,500	Feb. 28	3073	702	86	1461
Rohrbach, Gabriel, Del Rio, Tex. Turn-table-operating mechanism	620,501	Feb. 28	3074	703	86	1462
Rohrbek, Walter, Yorktown Heights, N. Y. Cuff-button	639,094	Dec. 12	1667	385	89	2211
Rohrbough, Adam, *et al.* (See De Tray, Frederick H., assignor.)						
Rohring, August. (See Herrick, Phineas, assignor.)						
Roland, Carl M. (See Anderson and Roland.)						
Roland, John H., London, England. Hat-fastener	620,502	Feb. 28	3075	703	86	1462
Roleau, Curtis E. (See Conant, George P., assignor.)						
Roles, William E., assignor of one-half to C. R. Godfrey, Goldfield, Colo. Acetylene-gas generator	638,066	Nov. 28	3870	814	89	1790
Rolfe, George L., New York, N. Y. Brick-making machine	636,560	Nov. 7	591	130	89	1041
Rolff, Louis W. G., assignor of one-half to A. Rehbock, New York, N. Y. Safety device for elevators	620,364	Feb. 28	2861	654, 655	86	1421
Rolle, Max, Philadelphia, Pa. Electrically-operated display turn-table	630,113	Aug. 1	725	156	88	867
Roller, Frank W., New York, N. Y. Electrical measuring instrument	636,182	Oct. 31	4180	959, 960	89	885
Rollason, Charles A., W. H. Fletcher, and G. R. Rollason, London, England Apparatus for advertising	616,975	Jan. 3	204	46	86	40
Rollason, George R. (See Rollason, Fletcher, and Rollason.)						
Rollins, Edgar C., Harvey, Tex. Wrench	638,474	Dec. 5	554	115	89	1973
Rollins, Fred C., Boston, Mass. Card-shuffling device	629,470	July 25	2819	655	88	606
Rollins, Fred M., *et al.* (See Sprague, Abraham L., assignor.)						
Rollins, La Fayette, Montgomery, Ala Flue-cleaner	635,701	Oct. 24	3213	740	89	682
Rollins, Lewis P., Prescott, Iowa. Roller-bearing axle-box for wheels	639,828	Dec. 26	3035	699	89	2517
Rollins. William H., Boston, Mass. Mechanical musical instrument	621,289	Mar. 14	1400	311	86	1786
Rolph, William T., Minneapolis, Minn. Sofa and bed	637,976	Nov. 28	3702	779, 780	89	1757
Romaine Automatic Agricultural Machine Company. (See Romaine, Robert, assignor.)						
Romaine, Mason, *et al.* (See Hinton, John R., assignor.)						
Romaine, Robert, deceased; F. L. Middleton, Branchville, Md., administrator, assignor to Romaine Automatic Agricultural Machine Company, Limited, Montreal, Canada. Power-driven mechanism for cultivating and harvesting	629,385	July 25	2661	618, 619, 620	88	574
Romans, John G W., Weymouth, and A. D. Grover, Malden, Mass. Coin-operated machine	625,123	May 16	2144	487	87	1154
Romans, Willett C., Freeport, Ohio. Display device for photographs	627,355	June 20	2109	466	87	2064
Rombach, John, assignor of one-half to E. A. Bennett, Weston, W. Va. Register for measuring-faucets	635,189	Oct. 17	2238	521	89	477
Rome Manufacturing Company. (See Ferrall, Thomas L., assignor.)						
Romer, Charles W. A., Newark, N. J. Lock	623,831	Apr. 25	3018	693, 694	87	636
Romeyer, Jean, and A. Josserand, Grenoble, France. Marking device	620,503	Feb. 28	3076	703	86	1462
Rommel, John, Niagara Falls, N. Y. Necktie-fastener	628,118	July 4	303	72	88	61

Alphabetical list of patentees—Continued.

Name, residence, and invention.	No.	Date.	Monthly volume.		Official Gazette.	
			Spec.	Dr'g.	Vol.	Page.
Romuender, William, assignor of one-half to E. J. Fellman, Milwaukee, Wis. Window-frame	639,866	Dec. 26	3099	713	89	2529
Roney, Alexander B., Chicago, Ill. Hoist	626,868	June 13	1228	271	87	1869
Roney, John. (See Murdock, Thomas J., assignor.)						
Roney, John, Woonsocket, R. I. Bobbin-holder and thread-catcher	632,473	Sept. 5	477	108	88	1802
Roney, Thomas F., Newport, R. I. Bobbin-holder for spinning-machine spindles	619,506	Feb. 14	1306	300	86	1085
Rontke, Albert, Elizabeth, N. J., assignor to Singer Manufacturing Company, of New Jersey. Presser-foot for sewing-machines	621,145	Mar. 14	1150	250	86	1736
Rontke, Albert, Elizabeth, N. J., assignor to Singer Manufacturing Company, of New Jersey. Presser-foot for sewing-machines	621,146	Mar. 14	1152	250	86	1737
Rontke, Albert, Elizabeth, N. J., assignor to Singer Manufacturing Company, of New Jersey. Presser-foot for sewing-machines	621,147	Mar. 14	1153	250	86	1737
Rooch, Edward, St. Louis, Mo. Bicycle	638,067	Nov. 28	3871	814, 815	89	1791
Rood, Charles F., Grand Rapids, Mich. Metal bedstead	623,038	Apr. 11	1537	355	87	314
Rood, Edgar, *et al.* (See Mills, William H., assignor.)						
Rood, Edwin O., Britt, and J. Helt, Pella, Iowa. Tile-laying machine	628,039	July 4	146	30	88	30
Rood, John, Danvers, Mass. Apparatus for shaving hides or skins	618,620	Jan. 31	3348	745	86	713
Roof, Byron, *et al.* (See McKam, Lawrance G., assignor.)						
Rooke, George F., Peoria, Ill. Fare-register	625,418	May 23	2670	608	87	1280
Rooke, George F., Peoria, Ill. Fare-register	629,471	July 25	2821	655, 656	88	606
Rooke, Herbert E., Raneegunge, India. Combined sleeper and chair for railways	634,032	Oct. 3	88	23	89	22
Room, Henry, Olema, Wash. Water-elevator	617,910	Jan. 17	2022	451, 452	86	433
Rooney, Edward S., Cincinnati, Ohio. Shaving-brush	624,686	May 9	1347	301	87	984
Rooney, Henry F., assignor of one-half to F. Porter, Randolph, Mass. Burnishing-iron for shoe-bottoms	623,288	Apr. 18	2025	465	87	424
Rooney, Henry F., Randolph, assignor to Rooney Manufacturing Company, Boston, Mass. Heel and sole burnishing machine	636,357	Nov. 7	218	48	89	964
Rooney, John, *et al.* (See O'Neill, Henry G., assignor.)						
Rooney Manufacturing Company. (See Rooney, Henry F., assignor.)						
Rooney, William. (See Damrell, John S., assignor.)						
Root, Albert A., Buffalo, N. Y. Combined cigar-cutter and advertising device	629,612	July 25	3099	721, 722	88	658
Root, Denise F. (See Farquharson and Root.)						
Root, Edward I., Denver, Colo. Cigarette-making device	638,887	Dec. 12	1302	296	89	2140
Root, Henry, San Francisco, Cal. Burial-vault	634,123	Oct 3	262	65	89	55
Root, Norris M., Masonville, N. Y. Follower for packing barrels	631,861	Aug. 29	3957	885	88	1563
Root, Oliver H., Indianapolis, and G. E. Luce, Brazil, Ind. Brick-mold	630,114	Aug. 1	727	157	88	867
Root, William A., Lakewood, N. J. Method of and apparatus for producing acetylene gas	630,075	Aug. 1	665	143	88	855
Roper, Charles E., *et al.* (See Thompson, Sam B., assignor.)						
Roper, Charles F. (See Draper and Roper.)						
Roper, Denney W. (See Wagner and Roper.)						
Röper, Wilhelm A. A., Hamburg, Germany. Registering apparatus	628,040	July 4	147	31	88	30
Ropp, Alfred, Selby, Cal. Roasting and oxidizing furnace	634,247	Oct. 3	519	132	89	105
Ropp, Ezra. (See Ropp, Walter A. and E.)						
Ropp, Walter A. and E., Yuton, Ill. Unloading apparatus	631,129	Aug. 15	2616	592	88	1270
Rosa y Pascual, Alfredo, New York, N. Y. Firearm	621,369	Mar. 21	1549	343	86	1827
Rosan, Joseph H. D. (See Adair and Rosan.)						
Rosback, Frederick P., Chicago, Ill. Staple forming and driving machine	630,303	Aug. 1	1063	231, 232, 233	88	931
Rosback, Frederick P., assignor to W. P. Healy, Chicago, Ill. Machine for step-mitering box-blanks	623,258	Apr. 18	1966	449, 450, 451, 452	87	412
Rosback, Frederick P., assignor to W. P. Healy, Chicago, Ill. Feed device for box-blank material	625,958	May 30	3660	830	87	1490
Rosback, Frederick P., assignor to W. P. Healy, Chicago, Ill. Preliminary feed mechanism for box-blank material	636,068	Oct. 31	3974	908, 909	89	843
Rosback, Joshua A., Hermon, N. Y. Cream-separator	624,100	May 2	287	59	87	756
Rose, Alexander, Lynn, Mass. Weather-strip	618,733	Jan. 31	3554	793	86	754
Rose, Arthur G., New York, N. Y. Means for disposing of dredgings	637,947	Nov. 28	3648	765, 766	89	1747
Rose, Arthur G., New York, N. Y. Disposing of dredgings	638,145	Nov. 28	4045	853, 854	89	1823
Rose, Charles L., and W. P. Hyatt, Ophir, Colo., assignors of one-third to C. W. Tremain, Chicago, Ill. Concentrator	630,989	Aug. 15	2359	537	88	1220
Rose, Edward C., assignor of one-half to J. L. Throne, Arkansaw, Wis. Dust-pan	637,162	Nov. 14	1804	387	89	1307
Rose, Ferdinand and O., James, S. D. Wheel-harrow	633,159	Sept. 19	1813	426	88	2090
Rose, Henry, Gainsborough, England. Wrapping-machine	621,714	Mar. 21	2168	483, 484, 485, 486	86	1948
Rose, Herbert B., Buffalo, N. Y. Device for tilting kettles	625,607	May 23	2988	680	87	1342
Rose, Howard A. (See Holt and Rose.)						
Rose, Isaac A. (See O'Brien, John J., assignor.)						
Rose, Israel M., Philadelphia, Pa. Percussion-tape and making same	618,997	Feb. 7	394	82	86	887
Rose, John, Philadelphia, Pa. Umbrella-stick	631,441	Aug. 22	3181	722	88	1401
Rose, John, Philadelphia, Pa. Umbrella-runner	631,442	Aug. 22	3182	723	88	1401
Rose, Leonard F., New London, Iowa. Acetylene-gas generator	633,043	Sept. 12	1560	363	88	2029
Rose, Oscar E., Alma, Kans. Car-mover	636,183	Oct. 31	4182	960	89	886
Rose, Otto. (See Rose, Ferdinand and O.)						
Rose, Wilbur F. (See Cramp, Joseph C., assignor.)						
Rose, William N., Temperance Hall, Tenn. Rotary-disk harrow	633,908	Sept. 26	3186	741, 742	88	2374
Rosell, Claude A. O., New York, N. Y. Antiseptic composition	622,713	Apr. 11	963	------	87	203
Rosell, Claude A. O., assignor to Capillary Chalice Company, New York, N. Y. Device for promoting growth of hair	624,545	May 9	1110	250	87	937
Rosell, Claude A. O., New York, N. Y., assignor to American Lithographic Company, of New York. Printing-surface	637,552	Nov. 21	2557	------	89	1470
Rosell, Claude A. O., New York, N. Y., assignor to American Lithographic Company, of New York. Printing-surface	637,553	Nov. 21	2559	------	89	1471
Rosell, Claude A. O., New York, N. Y., assignor to American Lithographic Company, of New York. Printing-surface	637,554	Nov. 21	2561	------	89	1471

Alphabetical list of patentees—Continued.

Name, residence, and invention.	No.	Date.	Monthly volume.		Official Gazette.	
			Spec.	Dr'g.	Vol.	Page.
Roseman, Samuel A., Laurel, Pa. Brake-lever	617,995	Jan. 17	2157	481	86	459
Roseman, Samuel A., Laurel, Pa. Brake-lever	639,095	Dec. 12	1668	385	89	2211
Rosenband, Burkard, Newark, N. J. Case or box for matches or other articles	634,543	Oct. 10	1074	256	89	232
Rosenbauer, George A. (See Schowalter and Rosenbauer.)						
Rosenbauer, George A., and J. P. Schowalter, assignors to Sanger Handle-Bar and Plating Company, Milwaukee, Wis. Bicycle handle-bar	621,946	Mar. 28	2621	591	86	2048
Rosenbaum, A. N. (See Wray, Joseph H., assignor.)						
Rosenbaum, H., *et al.* (See Myers, Charles, assignor.)						
Rosenberg, Charles K., San Francisco, Cal. Temporary binder	627,762	June 27	2885	631	87	2235
Rosenberg, Herman, assignor to Standard Varnish Works, New York, N. Y. Surfacing bodies	639,867	Dec. 26	3101	------	89	2529
Rosenberg, Meyer, New York, N. Y. Ruler	637,832	Nov. 28	3434	718	89	1704
Rosenberg, Nathan, New York, N. Y. Tool for cutting square holes	618,585	Jan. 31	3293	731	86	703
Rosenberg, Stanislas, Paris, France. Decorative plate, tile, &c	621,851	Mar. 28	2442	544	86	2015
Rosenblatt, Harry M., Philadelphia, Pa. Traveling-case	624,981	May 16	1895	425	87	1109
Rosenblum, Sigmund, and C. J. Yarnold, assignors to Commercial Ozone Syndicate, Limited, London, England. Apparatus for manufacturing hydrogen peroxid	634,093	Oct. 3	191	48	89	42
Rosenblum, Sigmund G., London, England. Refining oils	632,148	Aug. 29	4486	------	88	1667
Rosenbluth, Max. (See Josephs, Adolf, assignor.)						
Rosenbrook, August C., Brook, Ind. Adjustable jewel-bearing for watches	620,972	Mar. 14	824	181	86	1674
Rosencrantz, Elof, *et al.* (See Smith, Louis B., assignor.)						
Rosenholz, Alfred, San Francisco, Cal. Rock-drill	617,407	Jan. 10	1059	241	86	226
Rosenholz, Carl A., and J. H. Lampe, Wardner, Idaho. Folding umbrella	620,504	Feb. 28	3078	704	86	1463
Rosenkranz, Adam, Allegheny, Pa. Sash-lock	629,613	July 25	3101	722	88	659
Rosenqvist, Conrad L., assignor to Excelsior Electric Company, New York, N. Y. Electric motor	619,620	Feb. 14	1490	340 / 341	86	1118
Rosenqvist, Conrad L., assignor to Excelsior Electric Company, New York, N. Y. Alternating-current electric motor	619,621	Feb. 14	1495	341 / 342	86	1120
Rosenqvist, Conrad L., Birmingham, assignor to Veritys Limited, London, England. Alternating-current electric motor	637,349	Nov. 21	2184	470 / 471	89	1397
Rosenthal, August, assignor to Rosenthal Corn Husking Machine Company, Milwaukee, Wis. Combined corn-husker and fodder-shredder	621,505	Mar. 21	1790	398 / 399	86	1872
Rosenthal, August, assignor to Rosenthal Corn Husking Machine Company, Milwaukee, Wis. Combined corn-husker and fodder-shredder	639,614	Dec. 19	2619	602	89	2417
Rosenthal, August, assignor to Rosenthal Corn Husking Machine Company, Milwaukee, Wis. Corn husking and cutting machine	639,615	Dec. 19	2625	603	89	2417
Rosenthal, Charles T., Batesville, Ark. Temporary binder	619,228	Feb. 7	812	177	86	971
Rosenthal, Charles T., Batesville, Ark. Temporary binder	621,618	Mar. 21	1986	443	86	1911
Rosenthal Corn Husking Machine Company. (See Rosenthal, August, assignor.)						
Rosenthal, Louis, Frankfort-on-the-Main, Germany. Phonograph	638,674	Dec. 5	926	206 / 207	89	2048
Rosentreter, Frank L., assignor to Caldwell Manufacturing Company, Rochester, N. Y. Door holder and check	624,546	May 9	1112	250	87	937
Roser, Jacob, Washington, Ky. Voting-machine	633,492	Sept. 19	2428	571 / 572	88	2210
Rosholt, Julius. (See Bird, Charles E., assignor.)						
Rosier, Charles, Levallois-Perret, France. Burner for hydrocarburets	620,185	Feb. 28	2552	578 / 579	86	1360
Rosier, George M. (See Kessler, William H., assignor.)						
Rosin, Herman W. J., Schramberg, Germany. Clock striking mechanism	639,438	Dec. 19	2322	535 / 536	89	2355
Rosinski, Stanislaw, and M. M. Ducruix, Paris, France. Automatic gas-lighting apparatus	626,247	June 6	53	12	87	1625
Roskoten, Carl O., Peoria, Ill. Bottle-stopper	617,123	Jan. 3	510	122	86	100
Ross, Alexander, assignor of one-half to F. H. Beach, Rochester, N. Y. Thill-coupling	618,437	Jan. 31	3035	671	86	653
Ross, Andrew D. (See Bouton, Green, Ross, and Chainey.)						
Ross, Archia L., Port Chester, N. Y. Trousers support or stretcher	638,068	Nov. 28	3872	815	89	1791
Ross, Arthur. (See Vernon and Ross.)						
Ross, Barney, Painesville, Ohio. Wrench	636,561	Nov. 7	593	130	89	1042
Ross, Charles F. (See Pearson and Ross.)						
Ross, Charles J., Exeter, England. Helmet	631,880	Aug. 29	3989	892	88	1569
Ross, Charles W., *et al.* (See Amiotte, Adelard, assignor.)						
Ross, Ebenezer, Toledo, Ohio. Drinking-fountain for fowls	638,402	Dec. 5	412	86	89	1944
Ross, Ernest S. (See Johnstone and Ross.)						
Ross, Hanford H. (See Ennis and Ross.)						
Ross, Henry S., New York, N. Y. Means for protecting boilers, pipes, &c., from corrosion	629,092	July 18	2142	498	88	456
Ross & Holden. (See Hill, Alva T., assignor.)						
Ross, Hugh R., Belfast, Ireland. Loom	631,407	Aug. 22	3116	706 / 707	88	1387
Ross, James D., Victoria, Canada. Volt and ampere meter	634,767	Oct. 10	1464	344	89	308
Ross, John. (See Scantlin, Thomas E., assignor.)						
Ross, John D., *et al.* (See Sharpneck, William S., assignor.)						
Ross, John H., Aston, England. Apparatus for generating acetylene	618,734	Jan. 31	3556	794	86	754
Ross, Joseph, assignor of one-half to J. W. Nordhaus, Vincennes, Ind. Hay-press	632,539	Sept. 5	613	141	88	1829
Ross, Joseph W., South Carrollton, Ky. Cattle-guard	629,305	July 18	2503	583	88	521
Ross, Martianus, Chicago, Ill. Vehicle-wheel	626,724	June 13	927	210	87	1812
Ross-Moyer Manufacturing Company. (See Miller, Louis L., assignor.)						
Ross, Noble G., Kansas City, Mo. Vapor-burner	639,296	Dec. 19	2038	469	89	2299
Ross, Samuel. (See Brown and Moore, assignors.)						
Ross, Thomas, Hudson, Mass. Ash-sifter	631,384	Aug. 22	3079	697	88	1380
Ross, Walter D., Philadelphia, Pa. Brake	630,742	Aug. 8	1909	430	88	1107
Ross, William S., Madisonville, Ky. Bandage-machine	617,542	Jan. 10	1296	293	86	272
Rossell, Thomas J., New Haven, Conn. Device for cleaning locomotive-boilers	628,551	July 11	1133	264	88	238
Rossi-Diehl, Conrad, Hoboken, N. J. Educational model	639,941	Dec. 26	3231	741	89	2556
Rossi, Joseph M., New York, N. Y. Brooch or ornamental breastpin	627,013	June 13	1497	327	87	1923
Rossi, Nicholas. (See Hillerman and Rossi.)						
Rossignol, Charles, Paris, France. Permutation-lock for toy safes	625,203	May 16	2267	516	87	1178
Rössler, Ludwig, Munich, Germany. Dust-arrester	632,370	Sept. 5	289	67	88	1764
Rost, Clarence, assignor of two-thirds to M. M. Head and W. M. Morris, Canton, Mo. Stencil	625,700	May 23	3146	715	87	1374
Roszell, Stephen S., Lexington, Ky. Needle	622,080	Mar. 28	2857	644	86	2096
Roszell, Stephen S., assignor of one-half to J. R. Allen, Lexington, Ky. Needle	619,229	Feb. 7	814	178	86	972
Roszell, Stephen S., assignor of one-half to J. R. Allen, Lexington, Ky. Nut-lock	638,146	Nov. 28	4047	854	89	1824
Rote, Charles V., assignor of one-half to B. J. McGrann, Lancaster, Pa. Car-brake	617,773	Jan. 17	1733	389	86	376
Rote, Charles V., assignor of one-half to R. Blickenderfer, Lancaster, Pa. Car-brake adjuster	639,616	Dec. 19	2627	603 / 604	89	2418

Alphabetical list of patentees—Continued.

Name, residence, and invention.	No.	Date.	Monthly volume. Spec.	Monthly volume. Dr'g.	Official Gazette. Vol.	Official Gazette. Page.
Rote, John F., Reading, Pa. Feed mechanism for vegetable-cutters	617,126	Jan. 3	512	122, 123	86	100
Roth, Alfred P., *et al.* (See Goolman, Fred R., assignor.)						
Roth, Charles W., Piru City, Cal. Gopher-trap	619,996	Feb. 21	2199	500	86	1280
Roth, Edward B. (See De Camp and Roth.)						
Roth, Georg, and K. Krnka, Vienna, Austria-Hungary. Recoil-operated firearm	634,913	Oct. 17	1714	405, 406	89	374
Rothballer, Frank C., Syracuse, N. Y. Street-indicating device	627,941	June 27	3211	703	87	2301
Rothe, Wilhelm, Güsten, Germany. Separating substances in the state of suspension from liquids	618,998	Feb. 7	396	82	86	887
Rothschild, Julius H., New York, N. Y. Sign-umbrella	635,811	Oct. 31	3435	793	89	738
Rothwell, John E., Boulder, assignor of two-thirds to Stearns-Roger Manufacturing Company, Denver, Colo. Cooling attachment for ore-roasting furnaces	625,608	May 23	2989	681	87	1343
Rott, Christian Z. F., Pittsburg, Pa. Cracking off tubular glassware	625,065	May 16	2033	457, 458	87	1135
Rott, Christian Z. F., Pittsburg, Pa. Apparatus for finishing articles of glassware	625,468	May 23	2750	626	87	1295
Rott, Christian Z. F., Pittsburg, and T. C. Steimer, Charleroi, Pa.; said Steimer assignor to said Rott. Glass-blowing machine	625,701	May 23	3148	715, 716	87	1374
Rotth, August W. H. (See Siemens and Rotth.)						
Rotth, Wilhelm H. A., Berlin, Germany, assignor to Siemens & Halske Electric Company of America, Chicago, Ill. Dynamo-electric machine	627,531	June 27	2456	540	87	2148
Roudebush, Emmett E., Chicago, Ill. Writing-book	634,094	Oct. 3	194	48	89	42
Roulleau, Jean F., Paris, France. Apparatus for manufacturing imitation leather	632,325	Sept. 5	215	50, 51	88	1749
Rounds, Daniel, Portland, Me. Shoemaker's repair jack or last	639,776	Dec. 26	2947	678	89	2499
Rounds, George E., assignor to Congdon & Carpenter Company, Providence, R. I. Jockey-plate for harness-saddles	636,851	Nov. 14	1175	254	89	1186
Rous, Vaclav. (See Kohout and Rous.)						
Rousay, Richard J., and W. G. Sinclair, Edinburgh, Scotland. Paper-cutting machine	630,631	Aug. 8	1739	389, 390	88	1074
Rouse, Ellen, London, England. Shoulder-braces and suspenders for stockings	636,562	Nov. 7	594	131	89	1042
Rouse, George I., Hillsdale, Miss. Hunting-lantern	618,735	Jan. 31	3557	794	86	754
Rouse, George W., Lowell, Mich., assignor of one-half to H. G. Weatherill, Elgin, Ill. Wrench attachment	638,475	Dec. 5	555	115	89	1973
Rouse, James G. B., assignor to H. L. Covington and Rouse & Son, Way Cross, Ga. Hack-clamp	622,081	Mar. 28	2858	644	86	2096
Rouse & Son *et al.* (See Rouse, James G. B., assignor.)						
Rouse, Sylvester, Nelson, Nebr. Planter	631,326	Aug. 22	2976	673	88	1360
Roush, George S., *et al.* (See Freddy, Michael P., assignor.)						
Roush, John W. (See Branson, Irene A., assignor.)						
Rousseau, David, assignor to C. M. Higgins, New York, N. Y. Electric bell	636,069	Oct. 31	3976	909	89	844
Rousseau, John, assignor of one-half to P. Martin, Detroit, Mich. Combination oil-can and oilstone-cover	618,483	Jan. 31	3102	687	86	667
Rousseau, Louis, Paris, France. Furnace for smelting metals	621,715	Mar. 21	2172	487	86	1948
Roussel, Emile, and D. Lefebvre, Roubaix, France. Cleaning wool slivers	633,703	Sept. 26	2842	-----	88	2305
Rousset, Constance, assignor to E. Langrenne, Rozoy, France. Automotor-horse	633,369	Sept. 19	2218	521	88	2170
Roussy de Sales, Georges de, and A. Charbonnel, Lyons, France. Apparatus for burning liquid fuel and the application thereof to heating furnaces, &c	622,172	Mar. 28	3043	689	86	2133
Rout, Benjamin F., assignor of one-half to M. E. Hewitt, Stanford, Ky. Incandescent-electric-lamp fixture	625,609	May 23	2990	681	87	1343
Rowald, Paul, Hanover, Germany. Hollow brick for level floors and ceilings, &c	633,044	Sept. 12	1562	363	88	2029
Rowand, Lewis G., Camden, N. J., assignor to Universal Fire Alarm Company, of New Jersey. Overload safety device for electric circuits	621,976	Mar. 28	2699	609	86	2063
Rowbotham, George B., Boston, Mass. Driving-belt	627,810	June 27	2970	650	87	2250
Rowbotham, Walter, Birmingham, England. Galvanic battery	628,855	July 11	1700	397, 398	88	351
Rowbottom, George, and D. C. Griggs, assignors to Waterbury Farrel Foundry and Machine Company, Waterbury, Conn. Drop-hammer	624,101	May 2	288	60	87	756
Rowe, Amos D. (See Murphy and Rowe.)						
Rowe, Edward, Indiana, Pa. Flag-pole	627,831	June 27	3008	657	87	2257
Rowe, George, and J. Trunnel, Cincinnati, Ohio. Circular saw	635,509	Oct. 24	2875	656	89	616
Rowe, James, Chicago, Ill. Process of and apparatus for making lined tubing	624,868	May 9	1694	384	87	1052
Rowe, James, Chicago, Ill. Apparatus for melting glue	631,327	Aug. 22	2978	674	88	1360
Rowe, James, Chicago, Ill. Lined tubing	631,328	Aug. 22	2979	674	88	1360
Rowe, James H. (See Jensen and Rowe.)						
Rowe, John A., London, England. Apparatus for automatically discharging guns of war-ships	629,819	Aug. 1	108	26	88	741
Rowe, John T., Cicero, Ind. Machine for making hollow glassware	622,270	Apr. 4	123	28, 29	87	26
Rowe, Levi L., Boston, Mass. Bicycle-saddle	635,598	Oct. 24	3030	696	89	644
Rowe, Norman, Wilkinsburg, Pa., assignor to Westinghouse Electric and Manufacturing Company, of Pennsylvania. Means for and method of electromotive-force regulation	620,365	Feb. 28	2863	655	86	1422
Rowell, F. E., *et al.* (See Griffith, Henry T., assignor.)						
Rowell, Frank D. (See Van Trump and Rowell.)						
Rowell, J. A., *et al.* (See Griffith, Henry T., assignor.)						
Rowell, John S., Beaver Dam, Wis. Wheel	625,419	May 23	2673	608	87	1280
Rowland, Elizabeth, London, England. Inhaler	627,928	June 27	3188	698	87	2296
Rowland, Henry A., Baltimore, Md. System of multiplex telegraphy	622,636	Apr. 4	806	187, 188, 189	87	153
Rowland, Henry A., Baltimore, Md. Method of and apparatus for varying the number of phases of polyphase currents	628,358	July 4	767	178, 179	88	148
Rowland, Henry W., Crosby, and W. H. Harrison, Aughton, England. Shipping can or package	626,568	June 6	630	145	87	1737
Rowland, Thomas F., New York, N. Y. Hydraulic accumulator mechanism	622,655	Apr. 4	859	197	87	163
Rowland, William D., Philadelphia, Pa. Buffing and polishing machine for shovel-handles	617,940	Jan. 17	2065	463	86	443
Rowland, William D., Philadelphia, Pa. Shovel	619,230	Feb. 7	815	178	86	972
Rowland, William D., Philadelphia, Pa. Manufacturing shovel-blades	621,852	Mar. 28	2443	544	86	2015
Rowlands, John R., assignor to W. H. Boles, Syracuse, N. Y. Expansion-bolt	626,040	May 30	3864	876	87	1527
Rowlands, John R., assignor to C. H. Shattuck, Syracuse, N. Y. Tricycle	637,350	Nov. 21	2187	471, 472	89	1397
Rowley, David E., Chicago, Ill. Tufting device	627,271	June 20	1944	428	87	2031
Rowley, David E., Chicago, Ill. Tufting device	628,552	July 11	1135	264, 265	88	239
Rowley, James F., Chicago, Ill. Hinge-joint for artificial limbs	631,385	Aug. 22	3081	697	88	1381
Rowley, John T., Beaver Falls, and J. R. Cavanagh, Pittsburg, Pa. Burglar-alarm	636,292	Nov. 7	119	26	89	946

Alphabetical list of patentees—Continued.

Name, residence, and invention.	No.	Date.	Monthly volume.		Official Gazette.	
			Spec.	Dr'g.	Vol.	Page.
Rowley, Salmon B. (See Lippincott, Randolph P., assignor.)						
Rowntree, Edward. (See Harrington, Charles, assignor.)						
Rowntree, Harold, assignor to Burdett-Rowntree Manufacturing Company, Chicago, Ill. Door-operating mechanism	619,350	Feb. 14	1028	231, 232	86	1030
Rowntree, Harold, assignor to Burdett-Rowntree Manufacturing Company, Chicago, Ill. Automatic electric elevator	638,281	Dec. 5	160	36, 37	89	1897
Rowntree, Harold, assignor to Burdett-Rowntree Manufacturing Company, Chicago, Ill. Automatic electric elevator	638,282	Dec. 5	169	37, 38	89	1899
Rowntree, Harold, assignor to Burdett-Rowntree Manufacturing Company, Chicago, Ill. Indicator for elevators	638,992	Dec. 12	1501	344	89	2179
Roxendorff, Axel F. A., Stockholm, Sweden. Driving mechanism for bicycles	619,507	Feb. 14	1308	300	86	1086
Roxendorff, Axel F. A., Stockholm, Sweden. Driving mechanism for bicycles	627,881	June 27	3101	678	87	2274
Roxendorff, Axel F. A., Stockholm, Sweden. Automatic variable driving-gear for velocipedes	636,184	Oct. 31	4183	960	89	886
Roy, Robert H. (See Baines, Hugh, assignor.)						
Roy, John J., Lawrence, Mass. Automatic damper-regulator	632,371	Sept. 5	290	67, 68	88	1764
Roy, Robert. (See Howell, Charles C., assignor.)						
Royal, Charlton H. (See Heergeist, Charles W., assignor.)						
Royal Separator Company. (See Hartmann, William C. and R. A., assignors.)						
Royle, John J., Manchester, England. Steam-trap	632,754	Sept. 12	1036	240	88	1926
Royle, Vernon, Paterson, N. J. Shoot-plane	639.617	Dec. 19	2633	604	89	2419
Rubarts, Oren, Newport, Oreg. Wind-wheel	623,428	Apr. 18	2273	520	87	475
Rubarts, Oren, Newport, Oreg. Canning-machine	640,034	Dec. 26	3409	781	89	2592
Rubber and Celluloid Harness Trimming Company. (See Southard, Albert W., assignor.)						
Rubber Tire Company of America. (See Kempshall, Eleazer, assignor.)						
Rubber Tire Wheel Company. (See Grant, Arthur W., assignor.)						
Rubens, George B. (See Chapman and Rubens.)						
Rubin, Max, New York, N. Y. Suspender-buckle	623,429	Apr. 18	2274	521	87	475
Rubin, William. (See Johnson, Rubin, and Bradley.)						
Rubin, William, South Omaha, Nebr. Seaming-machine	622,271	Apr. 4	129	29	87	27
Rubira, Luciano S., Hackensack, N. J. assignor of two-thirds to G. A. Fish and J. V. Simpson, Mount Vernon, N. Y. Soap-holder	636,454	Nov. 7	376	84	89	997
Rucker, Benjamin A., Bedford City, Va. Pipe-patch	631,179	Aug. 15	2698	610	88	1287
Rucker, Samuel N. (See Grace, Henry S., assignor.)						
Rückersberg, Simon, San Antonio, Tex. Animal-trap	638,476	Dec. 5	556	115	89	1973
Ruda, Vaclav, New York, N. Y. Sample pad of textile fabrics	634,673	Oct. 10	1293	305	89	275
Ruddy, Robert. (See Kaczander and Ruddy.)						
Ruddy, Robert. (See Kaczander, Desmond, and Ruddy.)						
Rudebock, Holcombe, Pittsburg, Pa. Pipe-wrench	624,253	May 2	570	122	87	808
Ruden, Henry M., New Haven, Conn. Engraving-machine	629,210	July 18	2346	544, 545	88	492
Rudge, Frederick S., New York, N. Y. Shovel	624,547	May 9	1113	251	87	937
Rudge, John. (See Rogers and Rudge.)						
Rudolf, Henry W., assignor, by mesne assignments, to Rudolf Metal Sash Company, Indianapolis, Ind. Metal joint for window-glass	628,589	July 11	1200	281	88	251
Rudolf Metal Sash Company. (See Rudolf, Henry W., assignor.)						
Rudolph, Alexander J., Chicago, Ill. Machine for forming necks of bottles	631,329	Aug. 22	2980	674	88	1361
Rudolph, Alexander J., Chicago, Ill. Machine for forming bottle-necks	631,582	Aug. 22	3459	781	88	1456
Rudolph, Alexander J., Chicago, Ill. Machine for forming bottle-necks	631,583	Aug. 22	3461	781, 782	88	1456
Rudolph, Alexander J., Chicago, Ill. Machine for forming bottle-necks	631,584	Aug. 22	3462	782	88	1457
Rudolph, Alexander J., Chicago, Ill. Machine for forming bottle-necks	631,585	Aug. 22	3464	783	88	1457
Rudolph, Alexander J., Chicago, Ill. Machine for forming bottle-necks	631,586	Aug. 22	3465	783	88	1458
Rudolph, Alexander J., Chicago, Ill. Machine for forming bottle-necks	631,587	Aug 22	3467	783	88	1458
Rudolph, Alexander J., Chicago, Ill. Machine for forming bottle-necks	631,588	Aug. 22	3468	784	88	1459
Rudolph, Alexander J., Chicago, Ill. Machine for forming bottle-necks	631,589	Aug. 22	3469	784	88	1459
Rudolph, Alexander J., Chicago, Ill. Machine for forming bottle-necks	631,590	Aug. 22	3470	784	88	1459
Rudolph, Otto H., Nashville, Tenn., assignor to Singer Manufacturing Company, of New Jersey. Bobbin-case for sewing-machine shuttles	619,791	Feb. 21	1852	422	86	1215
Rudomin, David, assignor of one-half to D. Levy, New York, N. Y. Power-transmitting mechanism	624,381	May 2	797	179	87	853
Rudy, John B., Farmington, Mo., and J. H. Mulcahy, Columbia, Ill. Chair attachment for tables	624,869	May 9	1695	384	87	1052
Ruef, Charles S., assignor to Grand Detour Plow Company, Dixon, Ill. Cultivator	625,519	May 23	2841	647, 648	87	1314
Rueff, Emil, New York, N. Y. Fireproofing and insulating compound and producing same	630,115	Aug. 1	728	------	88	868
Ruel, Mary L., New York, N. Y. Combination roller-skate shoe	617,996	Jan. 17	2158	481	86	459
Ruff, Eli, Red Oak, Iowa. Hand implement carrying thread	617,970	Jan. 17	2113	473	86	452
Ruff, Frederick A., assignor to Detroit Automatic Switch Company, Limited, Detroit, Mich. Electric-railway switch	628,856	July 11	1703	398	88	352
Ruffner, Daniel B. (See Hollan, George, assignor.)						
Rufus, William, and S. H. Krichauff, Adelaide, South Australia. Spark-arrester	623,183	Apr. 18	1836	420, 421	87	385
Rufz de Lavison, Henri de, Neuilly, France. Voltaic battery-cell	632,873	Sept. 12	1281	294	88	1974
Ruggles, Harry A., assignor to Werner-Schenck Company, Milwaukee, Wis. Flue-cleaner	628,611	July 11	1228	287	88	257
Ruggles, William B., Bayonne, N. J. Drier	636,852	Nov. 14	1176	255	89	1186
Ruhe, Charles H. W., Pittsburg, Pa. Machine for blowing glass	635,392	Oct. 24	2633	607, 608	89	569
Ruhe, Charles H. W., Pittsburg, Pa. Machine for blowing glass	635,393	Oct. 24	2635	608, 609	89	569
Ruhe, Henry F. W., *et al.* (See Farmer, John R., assignor.)						
Rühl, Louis, Worms, Germany. Device for admixing carbonic acid to outflowing water	620,973	Mar. 14	825	181	86	1674
Ruhl, W. W., *et al.* (See Barnes, John W., assignor.)						
Rulon, Watson B., Bordentown, N. J., and J. S. Keen, Jr., Philadelphia, Pa. Incandescent lamp	622,929	Apr. 11	1346	309	87	275
Rumble, Alexander C, assignor of one-half to J. H. Thompson, Oakland, Cal. Automatic journal oiler and cooler	624,102	May 2	290	60	87	756
Rumble, Alexander C., assignor of one-half to J. H. Thompson, Oakland, Cal. Air-brake safety attachment	624,103	May 2	291	60	87	757
Rumely, William N., La Porte, Ind. Rasp-cutting machine	627,532	June 27	2458	540	87	2149
Rummler, William R., *et al.* (See Davis, John H., assignor.)						
Rumsey, Byron, Davenport, Iowa. Heel for shoes	634,998	Oct. 17	1872	444	89	405
Ründ, Bernhard. (See Frossard, Joseph, assignor.)						
Rundwebstuhl Fabrik Herold & Richards. (See Herold, Josef and C., assignors.)						
Runge, George H. W., St. Louis, Mo. Lubricator	636,185	Oct. 31	4184	961	89	886

Alphabetical list of patentees—Continued.

Name, residence, and invention.	No.	Date.	Monthly volume. Spec.	Monthly volume. Dr'g.	Official Gazette. Vol.	Official Gazette. Page.
Runner, J. W. (See Faulkner, James J., assignor.)						
Runyan, Clay M., and J. L. Sullivan, Columbus, Ohio. Combined printing and addressing machine	622,541	Apr. 4	647	152	87	123
Rupertus, Jacob, Philadelphia, Pa. Lock for firearms	633,734	Sept. 26	2894	673	88	2315
Rupp, Peter, White House, Ohio. Corn-husker and feed-cutter	619,231	Feb. 7	816	178, 179	86	972
Ruppel, Friedrich, Lägerdorf, Germany. Kiln for cement, lime, &c	621,463	Mar. 21	1716	381	86	1859
Ruppel, Henry, assignor to Dangler Stove and Manufacturing Company, Cleveland, Ohio. Hydrocarbon-burner	625,124	May 16	2148	487, 488	87	1155
Ruse, Jeremiah M., Tiffin, Ohio. Driving-rein holder	636,563	Nov. 7	595	131	89	1042
Rush, E W. (See Anderson, Lee, assignor.)						
Rush, George W., Altoona, Pa. Ice-creeper	638,069	Nov. 28	3873	815	89	1791
Rush, George W., Altoona, Pa., assignor of one-half to W. W. Keagy. Shade and curtain bracket	639,439	Dec. 19	2323	536	89	2355
Rush, Joseph K., Canandaigua, N. Y. Acetylene-gas generator	633,045	Sept. 12	1563	363, 364	88	2029
Rush, Louis. (See Hopkins, Rush, and Davids.)						
Rush, Thomas J., Derry Station, Pa. Removable toe-clip for bicycle-pedals	630,743	Aug. 8	1911	431	88	1108
Rushton, Walter. (See Welsh, David, assignor.)						
Rushton, William L., Liverpool, England. Exercising apparatus	621,429	Mar. 21	1639	364	86	1844
Russ, Albert B., assignor, by mesne assignments, of one-half to A. D. Axtell, Minneapolis, Minn. Bait-box	620,805	Mar. 7	496	105	86	1509
Russ, James, *et al.* (See Raby, Richard, assignor.)						
Russakov, Isaac, Chicago, Ill. Overalls or trousers	631,408	Aug. 22	3118	707	88	1388
Russell, Alpheous, Wickliffe, Ky. Fan attachment for sewing-machines	619,508	Feb. 14	1308	300	86	1086
Russell, Benjamin. (See Russell, Bridgman and B.)						
Russell, Benjamin F., New Site, Ala. Plow-clevis	624,548	May 9	1114	251	87	937
Russell, Bridgman and B., London, England. Turbine	628,635	July 11	1319	307	88	274
Russell, Charles, Sharon Hill, and A. C. Welchaus, Lancaster, Pa. Electric railway	629,211	July 18	2348	545	88	493
Russell, Charles J., assignor to M. A. Russell, Santa Maria, and J. E. Apsey, Arroyo Grande, Cal. Hinged telescopic box	637,997	Nov. 28	3744	787	89	1766
Russell, Charles J., and W. S. Liming, Philadelphia, Pa. Construction of steering-forks for bicycles	623,832	Apr. 25	3022	694	87	637
Russell, Daniel J., assignor of one-half to M. M. Bear, Chicago, Ill. Composite engraved printing-block	631,862	Aug. 29	3958	885	88	1563
Russell & Erwin Manufacturing Company. (See Burgess, Charles M., assignor.)						
Russell & Erwin Manufacturing Company. (See Jones, Horace K., assignor.)						
Russell & Erwin Manufacturing Company. (See Parker, William E., assignor.)						
Russell & Erwin Manufacturing Company. (See Voight, Henry G., assignor.)						
Russell & Erwin Manufacturing Company. (See Voight and Hurd, assignors.)						
Russell & Erwin Manufacturing Company. (See Wilkinson, Walter H., assignor.)						
Russell, Frank H., *et al.* (See Luther, Sarah L., assignor.) (Reissue.)						
Russell, Frederic T., assignor of one-half to M. M. Favor, Gardner, Mass. Door check or closer	632,149	Aug. 29	4488	1011	88	1667
Russell, George O., *et al.* (See Roberts Henry P., assignor.)						
Russell, George W., Greene, Iowa. Draft-equalizer	618,736	Jan. 31	3559	794	86	755
Russell, George W., Greene, Iowa. Dust-conveyer for threshing-machines	629,873	Aug. 1	224	50	88	764
Russell, Harlow M., assignor of one-half to R. Y. Russell, Saugus, Mass. Folding paper box	630,007	Aug. 1	523	115	88	826
Russell, Isaac O., Indianapolis, assignor to F. Murdock, Lafayette, Ind. Acetylene-gas generator	635,599	Oct. 24	3032	696	89	645
Russell, J. D., *et al* (See Woods, Fred M., assignor.)						
Russell, James A., Tacoma, Wash. Roasting and smelting furnace	623,833	Apr. 25	3023	694	87	637
Russell, James E., Elkins, W. Va. Cabinet for laces, &c	634,589	Oct. 10	1154	274	89	247
Russell, John, Heworth, England. Folding or collapsible bedstead	630,744	Aug. 8	1912	431	88	1108
Russell, John, San Francisco, Cal., assignor to E. Norton, Maywood, Ill. Preserving milk and cream	638,283	Dec. 5	181	38	89	1902
Russell, Joseph W. (See Davies, Roderick W., assignor.)						
Russell, Leona M., assignor to Jones Hollow Ware Company, Baltimore, Md. Water-closet	636,564	Nov. 7	596	131	89	1043
Russell Manufacturing Company. (See Fisher, William C., assignor.)						
Russell, Morris A., *et al.* (See Russell, Charles J., assignor.)						
Russell, Percy H., assignor of one-half to J. L. Gordon, Sangerville, Me. Alarm apparatus for carding-engines	628,493	July 11	1013	236	88	216
Russell, Richard, Stephen, Minn. Weed-puller	639,618	Dec. 19	2634	604, 605	89	2419
Russell, Robert C., assignor of one-half to A. W. Siegel, Williamsport, Pa. Sheet-metal package	634,033	Oct. 3	89	23	89	22
Russell, Robert J., *et al.* (See Englen, Frederick J., assignor.)						
Russell, Robinson Y. (See Russell, Harlow M., assignor.)						
Russell, Ross M., Binghamton, N. Y. Cigar-bunch-rolling machine	631,331	Aug. 22	2985	676, 677	88	1362
Russell, Ross M., assignor to Keyes-Baker Cigar Rolling Machine Company, Binghamton, N. Y. Cigar-bunch-rolling machine	628,677	July 11	1389	324	88	288
Russell, Ross M., assignor to Keyes-Baker Cigar Rolling Machine Company, Binghamton, N. Y. Cigar-rolling machine	631,330	Aug. 22	2982	675	88	1361
Russell, Ross M., assignor to Keyes-Baker Cigar Rolling Machine Company, Binghamton, N. Y. Pasting mechanism for cigar-bunch-rolling machines	631,332	Aug. 22	2988	677	88	1363
Russell, Ross M., assignor to Keyes-Baker Cigar Rolling Machine Company, Binghamton, N. Y. Header for cigar-bunch-rolling machines	631,333	Aug. 22	2989	677, 678	88	1363
Russell & Sons, A. N. (See Suters, Thomas, assignor.)						
Russell Will C., *et al.* (See Luther, Sarah L., assignor.) (Reissue.)						
Russell, William L., Duke Centre, Pa. Mantle-support	637,163	Nov. 14	1806	387	89	1307
Russell, William M., assignor to Baker-Vawter Company, Chicago, Ill. Temporary binder	639,297	Dec. 19	2041	469	89	2299
Russell, William S., Toledo, Ohio. Excavator	617,605	Jan. 10	1416	322	86	294
Russell, William S., Toledo, Ohio. Elevator-dredge	622,637	Apr. 4	823	190	87	156
Russell, William T., Wellesley, Mass. Snow-guard and slate-fastener	618,134	Jan. 24	2448	546	86	529
Rust, Conrad, Jr., Indianapolis, Ind. Price-list	624,254	May 2	571	122	87	808
Rutenberg, Charles. New York, N. Y. Garment	639,440	Dec. 19	2324	536	89	2355
Ruth, George W., Norristown, Pa Knitting-machine	622,542	Apr. 4	649	153	87	123
Ruthenberg, August, assignor of one-half to C. E. Kohlmetz, Rochester, N. Y. Lift-bridge	635,394	Oct. 24	2637	609	89	570
Rutherford, Charles H. (See White, William H., assignor.)						
Ruthven, John, Chicago, Ill. Acetylene-gas generator	637,998	Nov. 28	3746	787, 788	89	1766

Alphabetical list of patentees—Continued.

Name, residence, and invention.	No.	Date.	Monthly volume.		Official Gazette.	
			Spec.	Dr'g.	Vol.	Page.
Rutkoskie, Casimir, St. Joseph, Micb. Hydrocarbon-gas-generating heater	632,881	Sept. 12	1294	297, 298	88	1976
Rutland, John W. (See Perry, James W., assignor.)						
Rutschman, Francis S., Philadelphia, Pa. Apparatus for mixing and kneading soap	628,186	July 4	428	101, 102	88	87
Ryan, Edward J., assignor of one-half to H. F. Barry, Milltown, and W. C. Renne, Calais, Me. Wave-motor	627,533	June 27	2460	541, 542	87	2149
Ryan, John J. (See McCoy, Alonzo B., assignor.)						
Ryan, Juliet L., New York, N. Y. Soap-grater	630,413	Aug. 8	1326	298	88	995
Ryan, Lawrence F., New York, N. Y. Window lock and regulating device	624,870	May 9	1697	384	87	1053
Ryan, Michael B., Danbury, Conn. Detachable door-hook	638,813	Dec. 12	1177	263	89	2116
Ryan, Michael C., Oswego, N. Y. Brush-cleaner	622,082	Mar. 28	2859	644	86	2096
Ryan, Michael C., Oswego, N. Y. Duplicate-whist board	624,104	May 2	292	61	87	757
Ryan, Michael C., Oswego, N. Y. Awning	634,478	Oct. 10	957	228	89	209
Ryan, Patrick J., assignor of one-half to P. A. Dempsey, Philadelphia, Pa. Stockless anchor	638,147	Nov. 28	4049	854	89	1824
Ryan, Thomas W., Concord, Mass. Automatic shut-off ball-cock	618,438	Jan. 31	3036	671	86	653
Ryan, William E., *et al.* (See Curley, Patrick H., assignor.)						
Ryckman, George M., *et al.* (See Walsh, William J., assignor.)						
Ryckman, John G., Knappa, Oreg. Rein-support	633,493	Sept. 19	2429	572	88	2210
Rydberg, Birger I., Westanfors, Sweden. Wrench	623,337	Apr. 18	2112	485	87	442
Ryder, Andrew V., Scio, Ohio. Wheeled cultivator	633,160	Sept. 19	1814	426, 427	88	2090
Ryder, Thomas F. (See McLarty, Charles A. and G. W., assignors.)						
Ryer, John A., assignor to Waring Hat Manufacturing Company, Yonkers, N. Y. Box for packing hats	637,035	Nov. 14	1553	334	89	1261
Ryer, William H., Denver, Colo. Bracket for brake-shoes	636,853	Nov. 14	1177	255	89	1187
Rylands, Henry C. (See Nicol, John C., assignor.)						
Rylands, James J., assignor to Homestead Valve Manufacturing Company, Homestead, Pa. Valve	622,083	Mar. 28	2861	645	86	2097
Rylands, Thomas H., assignor to Union Metallic Cartridge Company, Bridgeport, Conn. Tool for turning heads of cartridge-shells	626,634	June 6	740	170, 171	87	1758
Rymtowtt-Prince, Czeslaw, Geneva, Switzerland. Paper-feeding machine	632,948	Sept. 12	1400	323	88	1997
Ryno, Wilson, Perth Amboy, N. J. Hasp	624,105	May 2	293	61	87	757
Ryon, Eppa H., assignor of one-half to A. M. Goodale, Waltham, Mass. Spindle-support for spinning-machines	636,214	Oct. 31	4239	975	89	897
Ryon, Eppa H., assignor of one-half to A. M. Goodale, Waltham, Mass. Self-tbreading shuttle	639,441	Dec. 19	2325	537	89	2356
Rypinski, Maurice C., Schenectady, N. Y. Photographic-plate holder	625,275	May 16	2408	546	87	1204
S. A. Woods Machine Company. (See Woods, Tillison, and Blood, assignors.)						
S. H. Howe Shoe Company. (See Newton, Charles W., assignor.)						
S. H. Sinclair Company. (See Walker and Rasmusson, assignors.)						
S. Howes Company. (See Rider, Charles S., assignor.)						
S. S. White Dental Manufacturing Company. (See Browne, Arthur W., assignor.)						
S. S. White Dental Manufacturing Company. (See Browne and Harrison, assignors.)						
S. S. White Dental Manufacturing Company. (See Carmicbael, John P., assignor.)						
S. S. White Dental Manufacturing Company. (See Gilbert, Edmund D., assignor.)						
S. S. Wbite Dental Manufacturing Company. (See Lob, Guido E., assignor.)						
S. W. Card Manufacturing Company. (See Peck, Eugene C., assignor.)						
Saarbach, Edmund. (See Cary and Saarbach.)						
Saart, William H., assignor to James E. Blake Company, Attleborough, Mass. Bracelet	625,959	May 30	3662	831	87	1491
Sabel, Wilhelm, Coblenz, Germany. Registering-frame for lithographic presses	635,061	Oct. 17	1986	469, 470	89	428
Sabold, John, Boyertown, Pa. Sbutter-fastener	639,942	Dec. 26	3233	741	89	2556
Sachs, Joseph, New York, N. Y. Electric cut-out	635,395	Oct. 24	2639	610	89	570
Sachs, Joseph, New York, N. Y. Electric switcb	635,396	Oct. 24	2642	610	89	571
Sacbs, Joseph, New York, N. Y. Safety-fuse	636,565	Nov. 7	598	131	89	1042
Sackett, August J., Baltimore, Md. Double-cutting machine	617,885	Jan. 17	1964	439	86	422
Sackett, Augustine, New York, N. Y. Mixing cement, plaster, &c.	624,687	May 9	1348	301	87	984
Sackville, James A., and J. H. Swallow, Pendlebury, England. Printing-machine	623,629	Apr. 25	2633	601	87	561
Sackville, James A., Swinton, and J. H. Swallow, Pendlebury, England. Printing-machine	632,372	Sept. 5	295	68	88	1765
Saco & Pettee Machine Shops. (See Garcelon and Threlfall, assignors.)						
Saco & Pettee Machine Shops. (See James, Frederick H. L., assignor.)						
Saco & Pettee Machine Shops. (See Mills and Hunton, assignors.)						
Saco & Pettee Machine Shops. (See Mills and Penney, assignors.)						
Saco & Pettee Machine Shops. (See Penney, Loren W., assignor.)						
Saco & Pettee Machine Sbops. (See Threlfall, William V., assignor.)						
Saddlemire, Ira, Oneonta, N. Y. Car-coupling	629,614	July 25	3102	722, 723	88	659
Sadgrove, Horace G., Birmingham, England. Speed-recorder and odometer	636,186	Oct. 31	4185	961	89	886
Sadtler, John P. B., Baltimore, Md. Torpedo attachment for boats	625,851	May 30	3455	784	87	1451
Sadtler, Samuel P., Philadelphia, Pa. Tanning hides or skins	620,056	Feb. 21	2314	525	86	1302
Safety Car Heating and Lighting Company. (See Creveling, John L., assignor.)						
Safety Car Heating and Lighting Company. (See Dixon, Robert M., assignor.)						
Safety Car Heating and Lighting Company. (See Stevens, Merton P., assignor.)						
Safety Corn Husker and Shredder Company. (See Teeguarden, Freeman M., assignor.)						
Safety Emery Wheel Company. (See Hyde, David B., assignor.)						
Safety Hat Pin and Novelty Company. (See Sleight, Elizabeth M., assignor.)						
Safford, Charles, *et al.* (See Wellington, Frank E., assignor.)						
Safford, Larkin S., Kelso, N. D. Automatic sink-door opener	632,373	Sept. 5	297	68, 69	88	1765
Safford, Robert D., New York, N. Y. Fly-paper holder	620,505	Feb. 28	3081	704	86	1463
Safran, Salle, London, England Apparatus for producing and removing transpiration	630,565	Aug. 8	1611	360	88	1050
Sage, Frederick B. (See Hanchett and Sage.)						
Sage, X La Motte, and F. T McIntyre, New York, N. Y. Portable burglar-alarm	624,982	May 16	1897	425	87	1109
Sagendorph Longley L., Philadelphia, Pa. Die for sbeet-metal plates	616,976	Jan. 3	205	47	86	40
Sagendorph, Longley L., Philadelpbia, Pa., assignor of one-balf to H. P Lloyd, Cincinnati, Ohio. Making dies for sheet-metal plates	639,096	Dec. 12	1669	386	89	2212
Sahlström, August, and J. E. Murdock, Minneapolis, Minn. Broom-brace	637,287	Nov. 21	2047	439	89	1369
Sailer, John M., Janesville, Wis. Boiler	627,763	June 27	2887	631	87	2235
Sainsbury, Edward B., Carácas, Venezuela. Crank-pin-turning machine	632,150	Aug. 29	4489	1011	88	1668
Saladé, John E., Lone Tree, Iowa. Door-fastener	622,714	Apr. 11	964	223	87	203
Saladin, Louis, New York, N. Y. Door-fastener and burglar-alarm	619,997	Feb. 21	2201	500, 501	86	1280
Saladin Pneumatic Malting Construction Company. (See Prinz, William H., assignor.)						
Saldin, Max, Manchester, N. H., assignor to himself, and H. Reichenbacb, New York, N. Y. Knitting-machine	636,187	Oct. 31	4187	961, 962	89	887

Alphabetical list of patentees—Continued.

Name, residence, and invention.	No.	Date.	Monthly volume. Spec.	Monthly volume. Dr'g.	Official Gazette. Vol.	Official Gazette. Page.
Salem Wire Nail Company. (See Williams, Edmund, assignor.)						
Salenius, Erik G. N., Albano, Sweden. Tool for assembling and removing parts of centrifugal machines	620,366	Feb. 28	2365	655 656	86	1422
Salenius, Erik G. N., Radiator, Sweden. Centrifugal cream-separator	621,619	Mar. 21	1988	443	86	1911
Salenius, Erik G. N., assignor to Aktiebolaget Radiator, Stora Kråftriket, Albano, Sweden. Centrifugal cream-separator	628,725	July 11	1466	340	88	305
Salisbury, George F., Boston, Mass. Buttoner	639,442	Dec. 19	2326	537	89	2356
Salmon, William C., Muskegon, Mich. Hydrocarbon-oil burner	639,997	Dec. 12	1670	386	89	2212
Salmond, Colin, San Francisco, Cal. Sound-indicator	630,990	Aug. 15	2360	537	88	1220
Salom, Pedro G., Philadelphia, Pa. Process of and apparatus for tanning hides or skins	625,204	May 16	2269	516	87	1178
Salomon, Morris, New York, N. Y. Button	636,455	Nov. 7	377	84	89	997
Salomone, Rocco, Paterson, N. J. Car-fender	628,119	July 4	304	72	88	61
Salt, William, Morez-du-Jura, France. Pince-nez	620,675	Mar. 7	245	50	86	1550
Salter, Allen, *et al.* (See Freddy, Michael P., assignor.)						
Salter, Cleveland J., St. Louis, Mo. Stovepipe and collar holder	632,790	Sept. 12	1112	257	88	1943
Salter, John B. (See Austin, Lloyd, assignor.)						
Salzberger, Carl, Burgsteinfurt, Germany. Water-filter	635,190	Oct. 17	2239	522	89	477
Salzbergwerk Neustassfurt. (See Precht, Heinrich, assignor.)						
Sammann, Boy A., San Francisco, Cal. Draft-harness for dogs	631,443	Aug. 22	3183	723	88	1401
Sammis, Daniel P., New York, N. Y. Pneumatic carriage-brake	618,294	Jan. 24	2743	608	86	584
Sammis, Lewis W., assignor of one-third to P. J. McKenna, New York, N. Y. Rope-clamp	623,744	Apr. 25	2817	646	87	597
Sammis, Lewis W., assignor of one-half to H. Schmalz, New York, N. Y. Magazine tack-hammer	630,116	Aug. 1	730	157	88	868
Sample, Emmet. (See Sample, Robert and E.)						
Sample, John A., Rankin, Pa. Car-coupling	638,284	Dec. 5	183	39	89	1902
Sample, Robert and E., Los Angeles, Cal. Violin	622,021	Mar. 28	2766	623	86	2078
Sampson, F. E., *et al.* (See Taulbee, Daniel M., assignor.)						
Sampson, Robert W., Quebec, Canada. Puncture-closer for pneumatic tires	632,540	Sept. 5	616	141	88	1829
Sampson, Thomas, Waterville, Me. Yarn spool or bobbin	634,738	Oct. 10	1418	334	89	209
Sampson, William L., Ocean Grove, N. J. Drawbridge and locking device therefor	617,606	Jan. 10	1418	322 323	86	294
Sampson, William R., *et al.* (See Brissette, Samuel J., assignor.)						
Samsioe, Carl A. R., Stockholm, Sweden. Alloy for dental purposes	617,359	Jan. 10	957	------	86	206
Samson, Swan, Tacoma, Wash. Mop-wringer	632,374	Sept. 5	298	69	88	1766
Samuel C. Tatum Company. (See Mendenhall, Walter S., assignor.)						
Samuel Cupples Envelope Company. (See West, James, assignor.)						
Samuel Winslow Skate Manufacturing Company. (See Everett, Otis W., assignor.)						
Samuels, Harry J. (See Gertin, David, assignor.)						
Sanborn, Nelson W., *et al.* (See Roberts, Henry P., assignor.)						
Sandbo, Anton I., Waukon, Iowa. Nailing-machine	622,638	Apr. 4	824	191	87	156
Sanden, Albert T., New York, N. Y. Electric belt	638,148	Nov. 28	4050	855	89	1824
Sander, Frederick H., Malden, Mass. Stapling-machine	637,288	Nov. 21	2047	439 440	89	1369
Sander, Sebastian, *et al.* (See Desmond, John, assignor.)						
Sanders, Henry B., Willows, Cal. Type-writer desk	625,852	May 30	3456	784	87	1451
Sanders, Jacob. (See Pettingill and Sanders.)						
Sanders, Louis, New York, N. Y. Cartridge-belt	621,148	Mar. 14	1154	251	86	1737
Sanders, Louis, New York, N. Y. Belt-buckle	624,871	May 9	1698	385	87	1053
Sanders, Louis, New York, N. Y. Belt-buckle	624,872	May 9	1699	385	87	1053
Sanders, Louis, New York, N. Y. Mail-bag	632,151	Aug. 29	4491	1011	88	1668
Sanders, Richard D., Eastbourne, England. Apparatus for manufacturing wire	625,205	May 16	2270	516	87	1179
Sanders, Spencer S., Hemlock, Ohio. Wire-stretcher	617,189	Jan. 3	626	146	86	122
Sanders, Thomas, assignor, by mesne assignments, of one-third to J. H. Rodewald, Indianapolis, Ind. Clasp	631,754	Aug. 22	3759	843	88	1513
Sanders, William, St. Louis, Mo. Toy pistol	629,820	Aug. 1	110	27	88	742
Sanders, William E., Lowville, N. Y. Lung-testing machine	631,334	Aug. 22	2990	678	88	1363
Sanderson, Charles D., Throop, and B. E. Banfield, Scranton, Pa. Pump-valve	620,676	Mar. 7	247	51	86	1550
Sanderson, Francis V., *et al.* (See Bradley, James R., assignor.)						
Sanderson, James F., assignor of one-half to C. B. Gray, Gray, N. Y. Rein-guard for wagon-poles	621,853	Mar. 28	2445	545	86	2016
Sanderson, James W., Hanover, Ill. Machine for spooling and taking up wire for fencing, &c	630,745	Aug. 8	1913	431	88	1103
Sanderson, Thomas C., London, England. Drier for white lead, &c	618,236	Jan. 24	2645	584	86	564
Sandford, William, Lithgow, W. Thornley, Marrickville, and E. Silcocks, Sydney, New South Wales. Expanding rail-joint	624,983	May 16	1898	426	87	1110
Sandow, Eugen. (See Robinson, Joseph, assignor.)						
Sandquist, John, Cokato, Minn. Steam-boiler	632,589	Sept. 5	690	159 160	88	1845
Sands, L. (See Cline, Oren R., assignor.)						
Sands, Thomas, Nashua, N. H. Ice-cream freezer	626,869	June 13	1229	271 272	87	1869
Sandstrom, William K., and E. Bommer, New York, N. Y.; said Sandstrom assignor to said Bommer. Attachment for screw-machines	635,147	Oct. 17	2175	507	89	464
Sanford, Addison V., Elmira, assignor to Drake Acetylene Gas Generator Company, Corning, N. Y. Acetylene-gas generator	637,164	Nov. 14	1807	388	89	1307
Sanford, Addison V., Elmira, assignor to Drake Acetylene Generator Company, Corning, N. Y. Acetylene-gas generator	637,165	Nov. 14	1811	389	89	1308
Sanford, Charles H., Cedar Rapids, Iowa. Folding table	637,289	Nov. 21	2051	440	89	1370
Sanford, Elmer E., Johnson, Mich. Mold for cement water-tanks	621,977	Mar. 28	2701	609	86	2064
Sanford, Frederick A., Lansingburg, N. Y. Separable hook	633,909	Sept. 26	3188	742	88	2375
Sanford, George H., *et al.* (See Webb, George S., assignor.)						
Sanford, Percy G., London, England. Making tanning extracts	626,100	May 30	3992	------	87	1549
Sanger Handle-Bar and Plating Company. (See Rosenbauer and Schowalter, assignors.)						
Sanger Handle-Bar and Plating Company. (See Schowalter and Rosenbauer, assignors.)						
Sanger, Otto C., Blue Earth City, Minn. Potato-bug catcher	618,737	Jan. 31	3560	795	86	755
Sanger, Philip, and C. L. Shumate, Dallas, Tex. Combination show-case	635,191	Oct. 17	2241	522	89	477
Sangor, J. E. (See Click, John W., assignor.)				109		
Sangster, Charles T. B., Bournbrook, England. Motor-driven vehicle	632,474	Sept. 5	480	110 111	88	1802
Sangster, William. (See Childs and Sangster.)						
Sangtinette, Hermann. (See Cain and Sangtinette.)						
Sanitary Communion Outfit Company. (See Forbes, Charles, assignor.)						
Sanitary Lead-Lining and Pipe-Bending Company. (See Brighton, Douglas G., assignor.)						
Sanitas Nut Food Company. (See Kellogg, John H., assignor.)						
Sankey, Richard J., *et al.* (See Crane, Henry C., assignor.)						
Sanner, Charles W., Prairie Home, Ill. Rice-header	630,933	Aug. 15	2246	512	88	1199

Alphabetical list of patentees—Continued.

Name, residence, and invention.	No.	Date.	Monthly volume.		Official Gazette.	
			Spec.	Dr'g.	Vol.	Page.
Sauner, Henry. (See Ohnemus and Sanner.)						
Sanor, George W., Pacific, Mo. Folding bed	637,670	Nov. 21	3139	650 651	89	1624
Santhoff, Anna. (See Wald, Max M., assignor.)						
Santon, Joseph C., Worcester, Mass. Engine-lathe	629,874	Aug. 1	226	50, 51	88	764
Saponoff, Peter K., New York, N. Y. Stair-cushion	617,449	Jan. 10	1134	259	86	239
Sapp, Isaac H., Papéiti, Tahiti, assignor of one-half to W. T. Stuart, Oakland, Cal. Musical instrument	635,192	Oct. 17	2242	522 523	89	477
Sapper, Charles H., Newburg, N. Y. Surfacing-tool for valve-seats	620,974	Mar. 14	826	181	86	1674
Sapper, Charles H., assignor of one-half to J. M. Sheehan, Newburg, N. Y. Carpet-stretcher	624,873	May 9	1701	385	87	1054
Sarfert, Julius, Reichenbach, Germany. Pressing and finishing textile fabrics	634,652	Oct. 10	1253	297	89	267
Sargeant, Edward F., Stroud, England. Manufacture of leather belting	618,738	Jan. 31	3561	795	86	755
Sargeant, Thomas C., Northampton, England. Manure-distributer	637,351	Nov. 21	2191	472	89	1398
Sargent, Arthur G., Tilton, and L. B. Martin, assignors to L. J. Merchand, Laconia, N. H. Press for printing menus, &c	623,930	Apr. 25	3203	737 738	87	671
Sargent Automatic Railway Signal Company. (See Sargent, James, assignor.)						
Sargent & Company. (See Monz, Frank J., assignor.)						
Sargent & Company. (See Page, Albert A., assignor.)						
Sargent & Company. (See Sargent, Edward R., assignor.)						
Sargent & Company. (See Sargent, Henry B., assignor.)						
Sargent & Company. (See Sargent, Joseph B., assignor.)						
Sargent & Company. (See Shaw, John H., assignor.)						
Sargent & Company. (See Sparks, William E., assignor.)						
Sargent, Dudley A., Cambridge, Mass. Mechanism for applying muscular strength of the human body	631,531	Aug. 22	3346	761 762	88	1434
Sargent, Edward, Jr., New Philadelphia, Ohio. Dough-board	630,746	Aug. 8	1914	432	88	1108
Sargent, Edward, Jr., New Philadelphia, Ohio. Dough-board	638,149	Nov. 28	4051	855	89	1825
Sargent, Edward P., Merrimac, Mass. Gate for cars	623,039	Apr. 11	1538	355	87	314
Sargent, Edward R., assignor to Sargent & Company, New Haven, Conn. Casket-handle	617,360	Jan. 10	957	220	86	206
Sargent, Frederick G., Graniteville, Mass. Wool-washer	630,566	Aug. 8	1612	361	88	1051
Sargent, Henry, assignor to F. G. Bate, London, England. Sewing-machine	621,760	Mar. 21	2269	511 512	86	1967
Sargent, Henry B., assignor to Sargent & Company, New Haven, Conn. Sash-operator	618,961	Feb. 7	299	64	86	869
Sargent, Howard, Cambridge, assignor to Boston Electric Hose Signal Company, Boston, Mass. Electric hose signal system	621,854	Mar. 28	2446	545	86	2016
Sargent, James, assignor to Sargent Automatic Railway Signal Company, Rochester, N. Y. Railway-signal	634,187	Oct. 3	375	96	89	77
Sargent, Joseph B., assignor to Sargent & Company, New Haven, Conn. Door-holder	638,761	Dec. 12	1085	243	89	2099
Sargent, Joseph B., assignor to Sargent & Company, New Haven, Conn. Knob attachment	638,940	Dec. 12	1393	318	89	2158
Sargent, William D., Chicago, Ill. Brake-shoe	622,397	Apr. 4	334	77	87	63
Sargent, William D., Chicago, Ill. Bearing	629,395	July 25	2685	625	88	579
Sartwell, S. C., *et al.* (See Brown, Edmond H., assignor.)						
Sarver, Edward, Deadwood, S. D. Locomotive	635,600	Oct. 24	3033	696	89	645
Sarvis, Mary E., Pittsburg, Pa. Wagon-brake	626,504	June 6	533	123	87	1717
Sather, Martin C., assignor of one-half to C. W. Bibb, Minneapolis, Minn. Lawn-mower	623,040	Apr. 11	1539	356	87	314
Satterlee, Richard H., Buffalo, N. Y. Ophthalmometer	624,106	May 2	294	61	87	757
Sattler, Eugen R., assignor to F. A. Sattler, Crimmitschau, Germany. Lubricating device for spindles	638,941	Dec. 12	1394	318	89	2158
Sattler, F. A. (See Sattler, Eugen R., assignor.)						
Sattley, Archibald. (See Sattley, Marshall and A.)						
Sattley, Archibald and M., Springfield, Ill., assignors to Sattley Manufacturing Company. Cultivator	629,875	Aug. 1	230	51	88	765
Sattley Manufacturing Company. (See Sattley, Archibald and M., assignors.)						
Sattley Manufacturing Company. (See Sattley, Marshall, assignor.)						
Sattley Manufacturing Company. (See Sattley, Marshall and A., assignors.)						
Sattley, Marshall, assignor to Sattley Manufacturing Company, Springfield, Ill. Wheel-plow	619,351	Feb. 14	1033	232	86	1031
Sattley, Marshall and A., assignors to Sattley Manufacturing Company, Springfield, Ill. Cultivator	623,564	Apr. 25	2522	578 579 580	87	542
Sattley, Marshall and A., assignors to Sattley Manufacturing Company, Springfield, Ill. Cultivator	628,857	July 11	1705	399	88	352
Sauer, Frederick H., New York, N. Y. Pressure-regulator	625,520	May 23	2843	648	87	1314
Sauers, William H., assignor of one-half to W. S. Gillespie, Baltimore, Md. Lifter for skylight-sashes	624,874	May 9	1703	385	87	1054
Sauls, Henry, and G. S. Cook, Mineral, Tex. Hub-wrench	636,456	Nov. 7	378	85	89	997
Saunders, David R. (See Wrede and Saunders.)						
Saunders, David H., assignor, by mesne assignments, of forty-nine one-hundredths to H. V. P. Merchant, Gloucester, Mass. Box-hinging machine	623,834	Apr. 25	3025	695 696 697	87	637
Saunders, Gaige M., Waterloo, Iowa. Finger-ring	635,510	Oct. 24	2876	656	89	616
Saunders, George. (See Lindsay and Saunders.)						
Saunders, James, and S. Chenault, Orange, Tex. Measuring instrument	618,135	Jan. 24	2448	546	86	529
Saunders, Joseph H., and M. F. Parham, Rocky Mount, N. C. Fertilizer-distributer	618,237	Jan. 24	2646	585	86	565
Saunders, Samuel E., Goring-on-Thames, England. Compound lumber	619,998	Feb. 21	2202	501	86	1281
Saunders, William E., Cleveland, Ohio. Filter	627,594	June 27	2589	571	87	2174
Saunders, William E., Cleveland, Ohio. Furnace for annealing, baking, &c	635,025	Oct. 17	1910	455 456	89	413
Saunders, William E., Cleveland, Ohio. Press for forming articles from plastic materials	635,026	Oct. 17	1915	456	89	413
Saup, Peter, and C. Hauenstein, Cairo, Ill. Harness-buckle	624,688	May 9	1349	301	87	985
Saur, John, Richmond, Ind. Nut-lock	630,117	Aug. 1	731	157	88	868
Saussure, Louis D. de. (See Bayles, Saussure, and Herron.)						
Saussure, René de, Brookland, D. C. Bicycle	623,430	Apr. 18	2275	521	87	475
Sauter, George, Charlottenburg, Germany. Veener cask	626,248	June 6	55	13	87	1625
Sautter, Gaston, Paris, France. Electric steering apparatus for vessels	622,398	Apr. 4	336	77	87	63
Sautter, Gaston E., Paris, France. Means for controlling electrically-moved apparatus	638,150	Nov. 28	4052	855 856	89	1825
Savage Arms Company. (See Savage, Arthur W., assignor.)						
Savage, Arthur W., assignor, by mesne assignments, to Savage Arms Company, Utica, N. Y. Firearm	634,034	Oct. 3	90	24	89	22
Savage, George E., assignor to Manning Bowman & Company, Meriden, Conn. Chafing-dish	625,702	May 23	3152	716	87	1375

Alphabetical list of patentees—Continued.

Name, residence, and invention.	No.	Date.	Monthly volume. Spec.	Monthly volume. Dr'g.	Official Gazette. Vol.	Official Gazette. Page.
Savage, George E., assignor to Manning Bowman & Company, Meriden, Conn. Lemon-squeezer	628,254	July 4	568	136	88	111
Savage, George E., and M. Seips, assignors to Manning Bowman & Company, Meriden, Conn. Handle for tea or coffee pots	618,366	Jan. 24	2866	636	83	607
Savage, Michael, *et al.* (See Benjamin and Jackson, assignors.)						
Savarete, Aniello. (See Chateau, Joseph D. C., assignor.)						
Saveland, John, Lake, Wis. Combined settee and bed	636,854	Nov. 14	1179	256	89	1187
Savery, Thomas H., Wilmington, Del. Device for winding webs into rolls	634,479	Oct. 10	958	228, 229	89	209
Savery, Thomas H., Wilmington, Del. Shaking-section of Fourdrinier paper-making machines	635,511	Oct. 24	2877	656, 657	89	616
Savery, Thomas H., Wilmington, Del. Pipe-joint for hollow revolving journals	635,512	Oct. 24	2880	657	89	616
Savill, Stephen D., *et al.* (See Wilson, Theodore M., assignor.)						
Savino, Camillo, New York, N. Y. Syringe	617,127	Jan. 3	514	123	86	101
Savorgnan, Detalmo di B., Rome, Italy, assignor to Di Brazza Postal Device and Lock Company, New York, N. Y. Lock	633,614	Sept. 26	2685	625, 626	88	2273
Sawin, Abraham J., Ventura county, Cal. Pipe-tongs	638,814	Dec. 12	1178	264	89	2116
Sawin, Edward H., Gardner, and B. T. Putnam, assignors to Spaulding Brothers Company, Townsend, Mass. Counter-cutting machine	618,586	Jan. 31	3294	731, 732	86	703
Sawtelle, Charles G., Jr. (See Batson and Sawtelle.)						
Sawtelle, Clarence W., Winchendon, assignor to L. R. Sawtelle, Brockton, Mass. Door-bolt	635,352	Oct. 24	2530	588	89	548
Sawtelle, Levi R. (See Sawtelle, Clarence W., assignor.)						
Sawyer, Albert J., *et al.* (See Holden and Fielder, assignors.)						
Sawyer-Boss Manufacturing Company. (See Sawyer, Willard W., assignor.)						
Sawyer, Burnside E., Fitchburg, Mass. Surface-gage	624,876	May 9	1704	386	87	1054
Sawyer, Burnside E., and W. D. Arnott, Athol, Mass. Screw-driver	624,875	May 9	1703	386	87	1054
Sawyer, Charles H., Jr. (See Coe, Charles E., assignor.)						
Sawyer, Elwin, near Clarence, Iowa. Cultivator	631,444	Aug. 22	3184	723	88	1401
Sawyer, Harry, Muskegon, Mich. Crane	617,051	Jan. 3	377	92	86	72
Sawyer, Henry B., Newton, and R. Robb, Concord, Mass. Electrically-driven spindle	630,567	Aug. 8	1614	361	88	1051
Sawyer, Henry B., Newton, and R. Robb, Concord, Mass. Electrically-driven spindle	639,443	Dec. 19	2327	537, 538	89	2356
Sawyer, Silas J., Milwaukee, Wis. Reference or page marker for books	634,768	Oct. 10	1466	345	89	308
Sawyer, Stanley F., Allentown, N. Y. Auger-handle	618,238	Jan. 24	2647	585	86	565
Sawyer, Walter H., assignor of one-half to J. B. Felder, Americus, Ga. Fence-post attachment	636,855	Nov. 14	1180	256	89	1187
Sawyer, Willard W., assignor to Sawyer-Boss Manufacturing Company, New York, N. Y. Numbering-machine	617,052	Jan. 3	379	93	86	73
Sawyer, Willard W., assignor to Sawyer-Boss Manufacturing Company, New York, N. Y. Numbering-machine	639,908	Dec. 26	3170	730	89	2542
Saxby, Charles F. A. (See Scroggs and Saxby.)						
Saxton, Arthur T. (See Feather and Saxton.)						
Saxton, Charles S., Blue Earth City, Minn. Runner for vehicles	637,166	Nov. 14	1814	390	89	1309
Sayer, Henry T., London, England. Bicycle-support	618,999	Feb. 7	397	82	86	887
Sayers, Eugene M., *et al.* (See Curry, John F., assignor.)						
Sayers, Thomas P., assignor of one-half to P. Anderson, Cambria, Wyo. Adjustable ratchet-wrench	630,819	Aug. 8	2045	461	88	1136
Sayers, William B., Bearsden, assignor to himself, and Mavor & Coulson, Limited, Glasgow, Scotland. Dynamo-electric machine	638,070	Nov. 28	3874	815, 816	89	1791
Sayles, John E., Montclair, N. J., and H. E. Reeve, New York, N. Y. Electric switch	630,076	Aug. 1	669	143	88	855
Sayles, John E., Montclair, N. J., and H. E. Reeve, New York, N. Y. Electric switch. (Reissue)	11,794	Dec. 12	1871	432	89	2250
Sayre, Dudley O., South Orange, N. J. Globe-holder for lamps	621,947	Mar. 28	2622	591	86	2049
Sayre, Dudley O., South Orange, N. J. Spring-holder for gas-globes	621,948	Mar. 28	2624	591	86	2049
Sayre & Fisher Company. (See Macarthy, Fred, assignor.)						
Sayre, Samuel H., and E. Little, assignors to Hampton Manufacturing Company, Hampton, Va. Cotton-seed planter	634,914	Oct. 17	1720	406, 407	89	374
Sayres, George F., Milnesville, Va. Adjustable and reversible handle-bar for bicycles	617,941	Jan. 17	2066	463	86	443
Scaife, William B. (See Kennedy and Scaife.)						
Scales, George M., *et al.* (See Adams, William F., assignor.)						
Scales, William S. (See Doble and Scales.)						
Scales, William S., Everett, Mass. Collapsible tube	624,549	May 9	1115	251	87	938
Scales, William S., Everett, assignor to C. F. Brown, trustee, Reading, Mass. Grass-cutter	639,619	Dec. 19	2636	605	89	2419
Scalf, Daw W., Williamsburg, Ky. Separable button	629,093	July 18	2143	498	88	456
Scalona, Joseph, Philadelphia, Pa. Exploding torpedo	633,615	Sept. 26	2689	626	88	2273
Scanlan, Martin L., Louisville, Ky. Detachable fire-front	624,984	May 16	1899	426	87	1110
Scanlan, Matthew J. F., New York, N. Y. Combined snow-plow and dumping-cart	634,274	Oct. 3	575	141, 142	89	115
Scantlebury, William, Anacostia, D. C. Optical apparatus	635,027	Oct. 17	1917	456	89	414
Scantlin, Thomas E., assignor of one-half to J. Ross, Lafayette, Ind. Acetylene-gas-generating lamp	617,774	Jan. 17	1736	389, 390	86	376
Scantlin, Thomas E., assignor of one-half to J. Ross, Lafayette, Ind. Acetylene-gas generator	617,775	Jan. 17	1740	390, 391	86	376
Scarfe, George, Towanda, Pa. Thermostat-valve	633,219	Sept. 19	1936	455	88	2115
Scarlett, John, Paterson, N. J. Window-shade fixture	617,190	Jan. 3	627	147	86	122
Scarritt, Charles W., Belton, Mo. Card-index file	638,942	Dec. 12	1395	319	89	2158
Scearcy, James J., deceased, (C. F. Martin, administrator,) Reynolds, and O. S. Martin, Monon, Ind. Traction ditching-machine	617,607	Jan. 10	1420	323	86	295
Schaack, Michel, Chicago, Ill. Water-heater	633,768	Sept. 26	2951	685	88	2327
Schaack, Michel, Chicago, Ill. Water-heater	633,769	Sept. 26	2952	685	88	2327
Schaaf, Edward O., Newark, N. J. Camera	619,792	Feb. 21	1853	423	86	1215
Schaaf, Heinrich, Eupen, Germany. Introducing volatile substances into soap	634,999	Oct. 17	1873	445	89	406
Schachman, Charles P., Congress, Ariz. Ter. Envelop-fastener	635,000	Oct. 17	1875	445	89	406
Schade & Company. (See Schade, John, Jr., assignor.)						
Schade, John, Jr., assignor to Schade & Company, New York, N. Y. Roller-skate	625,276	May 16	2410	546	87	1204
Schadeli, Emil, Rochester, N. Y. Machine for grinding and polishing lenses	619,793	Feb. 21	1855	423	86	1215
Schädle, Sebastian, Grönenbach, Germany. Cycle-lock	623,184	Apr. 18	1838	421	87	385
Schaefer, August C., St. Paul, Minn. Drive-chain and chain-wheel	623,431	Apr. 18	2276	521	87	475
Schaefer, George L., assignor to McKesson & Robbins, New York, N. Y. Antiseptic compound	636,215	Oct. 31	4240	------	89	897
Schaefer, George L., assignor to McKesson & Robbins, New York, N. Y. Medical compound	636,216	Oct. 31	4241	------	89	897
Schaefer, George L., assignor to McKesson & Robbins, New York, N. Y. Medical compound	636,217	Oct. 31	4242	------	89	897

Alphabetical list of patentees—Continued.

Name, residence, and invention.	No.	Date.	Monthly volume. Spec.	Monthly volume. Dr'g.	Official Gazette. Vol.	Official Gazette. Page.
Schaefer, George L., assignor to McKesson & Robbins, New York, N. Y. Medical compound	636,218	Oct. 31	4243	------	89	897
Schaefer, Henry P., Schulenburg, Tex. Acetylene-gas generator	638,599	Dec. 5	774	168	89	2014
Schaefer, John. (See Schaefer, William and J.)						
Schaefer, John J., *et al.* (See Conwell, La Fayette, assignor.)						
Schaefer, John V., assignor to Link Belt Machinery Company, Chicago, Ill. Device for loading coal	623,565	Apr. 25	2524	580	87	543
Schaefer, Peter, St. Peter, Minn. Curbing for flower-beds	619,352	Feb. 14	1034	232	86	1031
Schaefer, William and J., assignors of two-thirds to A. H. Wiedebusch, J. Handlan, J. C. Devine, and G. Stein, Wheeling, W. Va. Apparatus for treating black-plate for tinning	632,206	Aug. 29	4600	{1036 1037	88	1687
Schaefer, William C., Menomonie, Wis., assignor to Coffin's Box and Lumber Company, of Minnesota. Basket-making machine	638,852	Dec. 12	1239	279	89	2127
Schaeffer & Budenberg. (See Atwood, George F., assignor.)						
Schaeffer, William C., Menomonie, Wis., assignor to Coffin's Box and Lumber Company, of Minnesota. Basket-making machine	636,697	Nov. 7	845	188	89	1094
Schaerges, Carl F. M., Basle, Switzerland, assignor to F. Hoffmann-La Roche & Co., Basle, Switzerland, and Grenzach, Germany. Mercur-ammonium compound and making same	628,417	July 4	870	------	88	167
Schafer, Andrew C. (See Gereckey, Louis W., assignor.)						
Schafer, Louis. (See Smith, Albert D., assignor.)						
Schäfer, Wilhelm. (See Heinemann and Schäfer.)						
Schaffer, August, Erie, Pa. Soot-arrester	618,439	Jan. 31	3038	671	86	654
Schaffer & Budenberg. (See Carpenter, Rolla C., assignor.)						
Schaffer, Jakob, New York, N. Y. Candlestick	637,671	Nov. 21	3144	651	89	1626
Schaffer, John C., Palmyra, Mo. Combined land-roller and harrow	639,829	Dec. 26	3037	699	89	2517
Schaffer, Morse B., assignor of one-half to C. H. Howard, St. Louis, Mo. Car-transom	624,255	May 2	572	122	87	808
Schaffer, Morse B., assignor of one-half to C. H. Howard, St. Louis, Mo. Car-transom	626,443	June 6	421	100	87	1695
Schalitz, Carl L., San Francisco, Cal. Non-overflow filling attachment for closed vessels	621,149	Mar. 14	1155	251	86	1737
Schall, William F., New York, N. Y. Screw-staple	628,612	July 11	1230	287	88	258
Schaller, Michael D , Lowell, N. Y. Holdback	636,188	Oct. 31	4192	963	89	888
Schanschieff, Alexander, London, England. Secondary battery	619,622	Feb. 14	1501	------	86	1120
Schanschieff, Alexander, London, England. Manufacturing active compositions for secondary and primary battery elements	621,150	Mar. 14	1157	------	86	1738
Schan chieff, Alexander, and A. E. Hodgson, Halifax, England. Secondary-battery plate	621,716	Mar. 21	2174	487	86	1949
Schantz, Adam, Dayton, Ohio. Apparatus for purifying water	638,421	Dec. 5	450	93	89	1952
Schanz, Alfred B., Attica, Ind. Display-stander	623,835	Apr. 25	3031	697	87	638
Schanz, Felix, Fort Wayne, Ind. Photographic-light stand	628,286	July 4	625	148	88	121
Scharer, Jacob, Jr., Reading, Pa. Lifting-jack	634,035	Oct. 3	93	24	89	23
Schärfl, Andreas, assignor to Werkzeugmaschinenfabrik A. Schärfl's Nachfolger, Munich, Germany. Combined punching and shearing machine	625,420	May 23	2674	609	87	1281
Schärfl, Andreas, assignor to Werkzeugmaschinenfabrik A. Schärfl's Nachfolger, Munich, Germany. Metal cutting or shearing machine	625,421	May 23	2675	609	87	1281
Scharwath, John A., Jersey City, N. J. Pipe-covering	621,151	Mar. 14	1158	251	86	1738
Schattner, Ernest. (See Long and Schattner.)						
Schatz, Henry G., assignor of one-half to W. H. Hutton, Commerce, Mo. Churn	629,274	July 18	2447	567	88	511
Schau, Charles, *et al.* (See Schau, William, assignor.)						
Schau, David, *et al.* (See Schau, William, assignor.)						
Schau, Philip, *et al.* (See Schau, William, assignor.)						
Schau, William, Sheffield, Ala., assignor of one-half to P., C., and D. Schau, Kalamazoo, Mich. Tire-tightener	632,152	Aug. 29	4494	1012	88	1669
Schaub, Jacob, Salt Lake City, Utah. Envelop	621,152	Mar. 14	1159	251	86	1738
Schauer, Edward J., Chicago, Ill., assignor to Pennsylvania Globe Gas Light Company, of Pennslvania. Vapor-burner	621,430	Mar. 21	1640	364	86	1845
Schauer, Sherman C., Hamilton, Ohio. Engine-lathe	630,077	Aug. 1	670	144	88	856
Schaum, Otto W., Philadelphia, Pa. Means for securing shuttle-blocks to loom-battens	617,191	Jan. 3	629	147	86	123
Schaum, Otto W., Philadelphia, Pa. Shuttle	619,232	Feb. 7	818	179	86	972
Schaum, Otto W., Philadelphia, Pa. Let-off mechanism for looms	625,206	May 16	2272	517	87	1179
Schaum, Otto W., Philadelphia, Pa. Bicycle or golf trousers	625,521	May 23	2845	648	87	1315
Schaum, Otto W., Philadelphia, Pa. Loom	638,523	Dec. 5	640	132	89	1988
Schaum & Uhlinger. (See Gartner, Alfred, assignor.)						
Schaum & Uhlinger. (See Hamalian, George H., assignor.)						
Schedlbauer, Michael E., Jr. (See Wall and Schedlbauer.)						
Scheeffer, Gustave A., assignor to Diamond Meter Company, Peoria, Ill. Electric meter	622,639	Apr. 4	827	191	87	157
Scheeffer, Gustave A., assignor to Diamond Meter Company, Peoria, Ill. Electric transformer	627,144	June 20	1715	376	87	1985
Scheel, Frederick. (See Lackman, Raymond A., assignor.)						
Scheel, Gottfrid, New Brighton, Pa. Wire-drawing machine	617,053	Jan. 3	380	93	86	73
Scheerer, Wilhelm, assignor to Actien-Gesellschaft für Fein Mechanic, vormals Ietter & Scheerer, Tuttlingen, Germany. Speculum	639,444	Dec. 19	2330	538	89	2356
Schefbauer, Rupert, Jersey City, N. J., assignor, by mesne assignments, to Sterling Arc Lamp Company, of New York. Electric-arc lamp	621,855	Mar. 28	2447	{545 546	86	2016
Schefbauer, Rupert, Jersey City, N. J., assignor to Sterling Arc Lamp Company, of New York. Electric-arc lamp	636,358	Nov. 7	220	49	89	965
Scheffel, William. (See Shafer, Charles T., assignor.)						
Scheffler, Charles J., and C. V. Walls, New Castle, Pa. Telegraph-instrument key	637,290	Nov. 21	2053	440	89	1370
Scheid, Emil M., Barmen, Germany. Dress-protecting edging	619,328	Feb. 14	998	225	86	1025
Scheid, Henry J., Marion, assignor of one-half to W. A. Beasley, Fairmont, Ind. Die for compressing wood	638,477	Dec. 5	558	116	89	1973
Scheidecker, M. (See Herzog, James, assignor.)						
Scheifle, George. (See Loomis, Harry T., assignor.)						
Schell, Frederic, West Chillisquaque, Pa. Subsoiler	620,975	Mar. 14	828	182	86	1675
Schell, John W., Philadelphia, Pa. Automatic disinfector	633,390	Sept. 19	2262	533	88	2178
Schellenbach, William L., Philadelphia, Pa. Variable-speed mechanism	638,359	Dec. 5	333	70, 71	89	1929
Schellinger, Friedrich, and F. Kleiner, Ahausen, Germany. Railway-car coupling	621,978	Mar. 28	2702	610	86	2064
Schellman, Frank J. (See McPherson, Eli, assignor.)						
Schellong, Alfred, *et al.* (See Horn, Louis, assignor.)						
Scheminger, John, Providence, R. I. Cuspidor	635,081	Oct. 17	2036	480	89	439
Schemmel, Robert C., Union City, Ind. Device for turning backstays	635,193	Oct. 17	2245	523	89	478
Schenck, A. (See Shanks, David W., assignor.)						
Schenck, Edward V., New York, N. Y. Box-flange coupling for sheet-metal pipes	634,275	Oct. 3	576	142	89	115
Schenck, Henry I., Holmdel, N. J. Potato-digger	627,534	June 27	2465	543	87	2150
Schenck, John F., Lawndale, N. C. Thread-winding machine	638,360	Dec. 5	335	71, 72	89	1930
Schenck, Murray. (See Crist and Schenck.)						
Schenck, Murray. (See Crist, Schenck, and Mudgett)						
Schenck, Murray, Middletown, Ohio, assignor, by mesne assignments, to Union Bag and Paper Company, of New Jersey. Paper-bag machine	629,472	July 25	2826	{656 657	88	607

Alphabetical list of patentees—Continued.

Name, residence, and invention.	No.	Date.	Monthly volume.		Official Gazette.	
			Spec.	Dr'g.	Vol.	Page.
Schenck, Robert C., Dayton, Ohio. Car-door fastening	623,259	Apr. 18	1974	452	87	413
Schenck, Robert C., Dayton, Ohio. Brake-lever	636,070	Oct. 31	3077	909	89	844
Schenker, William, Denver, Colo. Vehicle-shaft	629,925	Aug. 1	347	76	88	790
Schepers, Henry H., Sandon, British Columbia, Canada. Hammer hand-sling	625,469	May 23	2752	626	87	1295
Scherer, John, Menekaunee, Wis. Repairing fractures in saw-plates	632,281	Sept. 5	145	33	88	1736
Scherff, Edmund, F. Rehdorff, and C. Ottow, Berlin, Germany; said Ottow assignor to said Scherff and Rehdorff. Self opening or closing umbrella	616,977	Jan. 3	206	47	86	41
Scherff, Hermann, Chicago, Ill. Pedal	622,543	Apr. 4	651	153	87	123
Schernikow, Ernest. (See Dobson and Alexander, assignors.)						
Scherrer, Franz, Essen, Germany. Safety-window in shape of ladder	621,620	Mar. 21	1989	443 444	86	1911
Scheuber, August W., assignor to M. Zinn, New York, N. Y. Stropping-machine	627,014	June 13	1498	327	87	1923
Scheuer, Max, New York, N. Y. Pocket-book	629,821	Aug. 1	111	27	88	742
Scheuerer, August, Jr., Philadelphia, Pa. Belt-fastener	617,776	Jan. 17	1744	391	86	377
Scheufler, John C., Sandusky, Ohio. Bottle-wrapper	622,715	Apr. 11	964	224	87	203
Scheyhing, Aaron M. (See Scheyhing, John A. and A. M.)						
Scheyhing, John A. and A. M., Eaton, Ohio. Wire-fence machine	637,291	Nov. 21	2054	441	89	1370
Schichtl, Joseph, Le Sueur, Minn. Folding stock or poultry rack	627,535	June 27	2467	543	87	2150
Schichtl, Martin, North Yakima, Wash. Pole-support	637,036	Nov. 14	1554	335	89	1261
Schick, Frank, St. Louis, Mo. Spectacles	634,629	Oct. 10	1218	289	89	259
Schiebert, John H., *et al.* (See Connett, Matthew F., assignor.)						
Schiefer, Andrew, Fernbank, Ohio. Core for casting pipe	635,900	Oct. 31	3625	835	89	775
Schiemann, Max, Dresden, Germany. Electromagnet	617,838	Jan. 17	1872	419	86	404
Schietrumpf, Alexander, *et al.* (See Kaiser, Johannes, assignor.)						
Schiff, Alexandria, New York, N. Y. Pinless diaper	622,272	Apr. 4	130	29	87	28
Schiff, Emile L. C., *et al.* (See Tienhoven, Baltazar W., assignor.)						
Schiff, Ludwig, Wilmersdorf, Germany. Alarm	631,230	Aug. 15	2779	629	88	1303
Schiffbauer, Daniel, Morgantown, W. Va. Tumbler-finishing machine	620,367	Feb. 28	2866	656	86	1422
Schiffer, Alfred, *et al.* (See Kraink, George, assignor.)						
Schiffer, Herrman, *et al.* (See Kraink, George, assignor.)						
Schild, Edward H., assignor of one-half to H. Castelberg, Baltimore, Md. Program-clock	628,678	July 11	1391	324	88	289
Schiller, Nellie. (See Laney, William S., assignor.)						
Schilling & Co., A. (See Malatesta, Victor M., assignor.)						
Schilling, Hermann, Amsterdam, Ky. Shutter operator and fastener	618,909	Feb. 7	157	34	86	836
Schilling, Robert P., Berkley, assignor of one-half to T. H. Roberts, Norfolk, Va. Ram for metallic packing	639,620	Dec. 19	2638	605	89	2420
Schilz, Frank, Milwaukee, Wis. Bill or envelop cabinet	628,896	July 11	1784	415	88	367
Schimper & Co., William. (See Oldenbusch, Ernest, assignor.)						
Schimper, Frederick. (See Orth and Schimper.)						
Schindehütte, Ernest J., McKees Rocks, Pa. Railway-rail splicer	632,023	Aug. 29	4249	955	88	1619
Schindehütte, Ernest J., McKees Rocks, Pa. Nut-lock	632,024	Aug. 29	4250	956	88	1620
Schindler, Friedrich, Vienna, Austria-Hungary. Tin or can for containing canned food	628,359	July 4	772	179	88	148
Schindler, Henry B., Oakland, Cal. Four-wheeled wagon-truck	631,477	Aug. 22	3248	737	88	1414
Schinneller, Jacob. Pittsburg, assignor of one-half to J. B. Arthur, Wilkinsburg, Pa. Apparatus for icing cakes	623,185	Apr. 18	1840	421 422	87	386
Schipke, Hermann, Bethlehem, Pa. Edge-tool sharpener	632,755	Sept. 12	1037	240	88	1926
Schirm, Carl C., assignor of one-half to A. Silbermann, Berlin, Germany. Enameling ou silver-leaf	635,901	Oct. 31	3626	------	89	775
Schirmacher, Karl, assignor to Farbwerke, vormals Meister, Lucius & Brüning, Höchst-on-the-Main, Germany. Red-brown monoazo dye and making same	624,256	May 2	574	------	87	808
Schirmacher, Karl, assignor to Farbwerke, vormals Meister, Lucius & Brüning, Höchst-on-the-Main, Germany. Black azo dye and making same	627,783	June 27	2920	------	87	2241
Schirmer, Edward V. (See Schirmer, Valentine and E. V.)						
Schirmer, Theodor F. (See Egry and Schirmer.)						
Schirmer, Valentine and E. V., New York, N. Y. Combined fire-escape and alarm	638,600	Dec. 5	775	168 169	89	2014
Schirner, Adolf, Berlin, Germany. Unchangeable incandescent lamp	625,903	May 30	3558	807	87	1470
Schirra, Julius, assignor of thirty-eight forty-fifths to J. L. Werling, M. Kuehnle, and A. J. Gould, Pittsburg, Pa. Thread-protector	636,566	Nov. 7	599	132	89	1043
Schlabach, Daniel C., Farmerstown, Ohio. Saw-swaging device	633,704	Sept. 26	2843	661	88	2305
Schlachter, Michael, Laurel, S. D. Corn-harvester	617,971	Jan. 17	2115	474	86	452
Schlaebitz, Theodore A., Lincoln, Nebr. Fish-hook	623,289	Apr. 18	2026	466	87	425
Schlaebitz, Theodore A., Lincoln, Nebr. Fish-hook	623,290	Apr. 18	2027	466	87	425
Schlaebitz, Theodore A., Lincoln, Nebr. Fish-hook	627,015	June 13	1500	327	87	1924
Schlaefer, Jacob, Mendon, N. Y. Tree-protector	635,397	Oct. 24	2643	610	89	571
Schlaepfer, Charles, and M. Walton, Fratte-di-Salerno, Italy. Dyeing-machine	625,357	May 23	2564	583 584	87	1259
Schlaf, Christian H., Springfield, Mass., assignor of one-half to H. F. Munn, New York, N. Y. Back-pedaling brake	618,739	Jan. 31	3562	795	86	756
Schlagle, John F., St. Joseph, Mo. Badge-holder	630,934	Aug. 15	2247	512	88	1199
Schleede, Frederick J., Ann Arbor, Mich. Temporary binder	634,630	Oct. 10	1219	289	89	259
Schlegel, Henry, Lapeer, Mich. Bating process	631,335	Aug. 22	2993	------	88	1364
Schlegel, Robert, assignor of one-half to J. Baumann, San Francisco, Cal. Paddle-wheel	618,295	Jan. 24	2744	608	86	584
Schlegelmilch, Gottlieb E., and F. A. Mann, Suhl, Germany. Sawing-machine	630,118	Aug. 1	732	157	88	868
Schleich, Paul, Hohenneuendorf, Mark, Germany. Kiln having superposed chambers for continuous working	625,513	Oct. 24	2883	657 658	89	617
Schleicher, John C., Mount Vernon, assignor of one-half to J. A. Britton, New York, N. Y. Bicycle-connecting frame	639,943	Dec. 26	3231	741	89	2556
Schlemmer, George P. and H. J., Ann Arbor, Mich. Rug-material-raveling machine	619,697	Feb. 14	1632	379	86	1150
Schlemmer, Henry J. (See Schlemmer, George P. and H. J.)						
Schlemmer, Richard von, *et al.* (See Stahl, Karl M., assignor.)						
Schlick, Joseph F., Philadelphia, Pa. Metal-calking tool	617,054	Jan. 3	332	93	86	73
Schlieder, Augustus E., Sioux City, Iowa. Attachment for automatically flushing water-closets	638,888	Dec. 12	1301	296	89	2140
Schlirf, Herman, Ashland, Wis. Game apparatus	625,703	May 23	3153	716	87	1375
Schliesewsky, Eduard, assignor, by mesne assignments, to O. H., Jr., and R. Redlich, Chicago, Ill. Shavings-machine	622,022	Mar. 28	2768	624 625	86	2078
Schloerb, Henry, assignor to M. B. Schloerb, New York, N. Y. Satchel	623,338	Apr. 18	2113	485	87	442
Schloerb, Maria B. (See Schloerb, Henry, assignor.)						
Schlosser, John J., Richmond, Va. Fire port-hole for buildings	635,601	Oct. 24	3034	697	89	645
Schlueter, Oswald. (See Boettiger and Schlueter.)						
Schlumberger, Robert, Allegheny, Pa. Gas-burner	619,623	Feb. 14	1502	342	86	1120
Schlumberger, Robert, Allegheny, assignor to A. S. King, Sewickley, Pa. Automatic water-heater	629,175	July 18	2287	532	88	482
Schlumberger, Robert, Allegheny, assignor to A. S. King, Sewickley, Pa. Automatic valve mechanism	629,176	July 18	2288	532	88	482

Alphabetical list of patentees—Continued.

Name, residence, and invention.	No.	Date.	Monthly volume.		Official Gazette.	
			Spec.	Drg.	Vol.	Page.
Schluss, Max, Leipsic-Gohlis, Germany, assignor to Symphonion Manufacturing Company, New York, N. Y. Coin-controlled mechanism	637,528	Nov. 21	2506	543, 544	89	1460
Schluss, Max, Leipsic, Germany, assignor to Symphonion Manufacturing Company, New York, N. Y. Sounding and damping mechanism for music-boxes	638,524	Dec. 5	643	132, 133	89	1989
Schluss, Max, Leipsic, Germany, assignor to Symphonion Manufacturing Company, New York, N. Y. Music-box and exchangeable music-disk	638,525	Dec. 5	644	133, 134	89	1989
Schlutter, John, Baltimore, Md. Sliding door	619,794	Feb. 21	1858	424	86	1216
Schmahl, Carl, Ahrensbök, Germany. Coupling for animals	627,709	June 27	2796	612	87	2215
Schmalenbach, August, Duisburg, Germany. Air and water tight covering for vessels	631,907	Aug. 29	4028	902	88	1576
Schmalz, Henry. (See Sammis, Lewis W., assignor.)						
Schmeiser, Frederick J., Bucyrus, Ohio. Support for railway-switch-operating wires and conduits	635,353	Oct. 24	2531	589	89	548
Schmelzeis, Heinrich, assignor to T. Kuhn, Maennedorf, Switzerland. Pneumatic pipe-organ	633,735	Sept. 26	2896	673	88	2316
Schmertz, Edward A., Pittsburg, Pa. Door-lock	638,151	Nov. 28	4056	856	89	1825
Schmid, Gottlob F., Indianapolis, Ind. Boiler-cleaner	625,207	May 16	2273	517	87	1179
Schmid, Henry, Buffalo, N. Y. Elastic-tread horseshoe	620,253	Feb. 28	2865	608	86	1383
Schmid, Jakob, assignor to Society of Chemical Industry in Basle, Basle, Switzerland. Blue tetrazo dye and making same	620,368	Feb. 28	2867	------	86	1422
Schmid, Jakob, assignor to Society of Chemical Industry in Basle, Basle, Switzerland. Blue tetrazo dye and making same	620,369	Feb. 28	2868	------	86	1423
Schmid, Jakob, and H. Rey, Basle, Switzerland, assignors to Badische Anilin and Soda Fabrik, Ludwigshafen, Germany. Red sulfo-acid dye	624,877	May 9	1706	------	87	1055
Schmid, John. (See Heinle, Albert G., assignor.)						
Schmid, Otto. (See Baumhoff and Schmid.)						
Schmidly, Jacob, Jericho, Wis. Clevis	631,336	Aug. 22	2993	679	88	1364
Schmidt, Albert, Zwickau, Germany. Rail fastening and joint	632,282	Sept. 5	146	33	88	1736
Schmidt, Albrecht, assignor to Chemische Fabrik auf Actien, vormals E. Schering, Berlin, Germany. Disinfecting by means of formaldehyde	630,782	Aug. 8	1973	446	88	1121
Schmidt, August. (See Prante and Schmidt.)						
Schmidt, Carl, Magdeburg, Germany. Separating wool-fat into its products	632,791	Sept. 12	1113	------	88	1943
Schmidt, Charles G., assignor to Cincinnati Butchers Supply Company, Cincinnati, Ohio. Arranging and handling sausage-casings	625,704	May 23	3154	716, 717	87	1375
Schmidt, Charles H., Winchester, Tex. Staple-setting implement	629,473	July 25	2833	657	88	608
Schmidt, Cornils F. (See Schmidt, Richard H. W. and C. F.)						
Schmidt, Friedrich, Milwaukee, Wis. Violin or similar instrument	628,993	July 18	1959	455	88	418
Schmidt, Friedrich W. J. F., Bergedorf, Germany. Preparing wood for dry distillation	622,194	Mar. 28	3020	------	86	2154
Schmidt, Hermann, and G. Leidenroth, Hamburg, Germany. Combined feed and stop valve, &c	635,148	Oct. 17	2178	508	89	464
Schmidt, Hermann, and J. Landini, Hamburg, Germany. Tanning apparatus	637,421	Nov. 21	2314	499	89	1424
Schmidt, Jacob A., Solingen, Germany. Pocket-knife	632,792	Sept. 12	1116	257	88	1944
Schmidt, John G. (See Wechsler, Leinberger, and Schmidt.)						
Schmidt, John G., Portland, Oreg. Device for truing wheels	621,153	Mar. 14	1160	252	86	1738
Schmidt, John J. G. C., Jersey City, N. J. Washboard	633,103	Sept. 12	1700	400	88	2056
Schmidt, Joseph, and P. Sherrer, Cleveland, Ohio. Barrel-washer	627,272	June 20	1947	429	87	2032
Schmidt, Lambert, New York, N. Y. Telephone-transmitter arm	635,812	Oct. 31	3436	793	89	738
Schmidt, Louis, Hoboken, N. J., assignor to J. Lambert, New York, N. Y. Belt	637,529	Nov. 21	2508	544	89	1461
Schmidt, Ludwig, assignor to Essmueller-Hyde Mill Furnishing Company, St. Louis, Mo. Friction-clutch	635,194	Oct. 17	2246	523	89	478
Schmidt, Oscar W. (See Dickerboom, Frederick, assignor.)						
Schmidt, Richard H. W. and C. F., Kansas City, Mo. Labeling-machine	631,386	Aug. 22	3082	697, 698	88	1381
Schmidt, Robert E., Elberfeld, Germany, assignor to Farbenfabriken of Elberfeld Company, of New York. Chrysazin dye and making same	623,219	Apr. 18	1896	------	87	397
Schmidt, Robert E., Elberfeld, Germany, assignor to Farbenfabriken of Elberfeld Company, of New York. Anthrarufin dye and making same	623,220	Apr. 18	1896	------	87	397
Schmidt, Theodore F. W., Anderson, Ind. Packing device for lamp-chimneys	622,023	Mar. 28	2772	625	86	2079
Schmidt, Theodore F. W., Anderson, Ind., assignor of one-half to J. W. Sefton Manufacturing Company, Anderson, Ind., and Chicago, Ill. Paper box	622,273	Apr. 4	131	29, 30	87	28
Schmidt, Theodore F. W., Anderson, Ind., assignor of one-half to J. W. Sefton Manufacturing Company, Anderson, Ind., and Chicago, Ill. Paper box	622,274	Apr. 4	133	30, 31	87	28
Schmidt, William A., assignor of one-half to J. Noll, New York, N. Y. Cleansing apparatus	631,180	Aug. 15	2699	611	88	1287
Schmidt, William F., Salinas City, Cal. Beet-plow	627,209	June 20	1825	399	87	2006
Schmidtlein, Constantin, Berlin, assignor to J. Moser, Berlin-Schöneberg, Germany. Piano sounding-board	635,872	Oct. 31	3562	820	89	762
Schmits, Frederick E., Oakland, Cal. Ice-cream mold and measure	626,468	June 6	462	109	87	1703
Schmitt, Andrew M., Milwaukee, Wis. Wagon-body	628,858	July 11	1707	399	88	352
Schmitt, Charles, Milan, Mich. Floor-mat	638,030	Nov. 28	3824	804	89	1781
Schmitt, Phillip L., Wichita, Kans., assignor of one-half to R. Hatfield. Mail-bag fastener	631,532	Aug. 22	3350	762	88	1435
Schmitz, Egon L., New York, N. Y. Razor	622,544	Apr. 4	652	153	87	124
Schmitz, Egon L., New York, N. Y. Safety-razor	632,025	Aug. 29	4252	956	88	1620
Schmitz, John P., Aurora, Ill. Kueading-machine	639,098	Dec. 12	1672	386	89	2212
Schmitz, Wilhelm J., Hamburg, Germany. Gas cooking-stove	627,710	June 27	2797	612	87	2215
Schmucker, Alfred P., Denver, Colo. Air-drill	633,661	Sept. 26	2759	641, 642	88	2288
Schnabel, John, Tampico, Ill. Whiffletree-hook	621,464	Mar. 21	1717	381	86	1859
Schneble, Joseph C., St. Mary's, Ohio. Governor for gas-engines	623,630	Apr. 25	2635	602	87	562
Schnée, Carl E., Carlsbad, Austria-Hungary. Four-tub electric bath	620,254	Feb. 28	2667	608, 609, 610, 611, 612	86	1384
Schneible, Joseph, New York, N. Y. Filter	633,161	Sept. 19	1816	427	88	2091
Schneible, Joseph, New York, N. Y. Regulating-valve	633,662	Sept. 26	2762	642	88	2289
Schneible, Joseph, New York, N. Y. Apparatus for filling or racking liquids	633,663	Sept. 26	2764	642, 643	88	2289
Schneible, Joseph, New York, N. Y. Regulating-valve	636,856	Nov. 14	1181	256	89	1188
Schneider, Andreas. (See Schneider, Anton and A.)						
Schneider, Anthony, Baltimore, Md., assignor to United States Standard Machine Company, of New Jersey. Machine for making all-tobacco cigarettes	620,976	Mar. 14	829	182	86	1675
Schneider, Anton and A., Chicago, Ill., assignors to C. L. Fortier, Milwaukee, Wis. Electrohygienic apparatus	637,833	Nov. 28	3435	718	89	1704
Schneider, Carl F. and H. L.; said Carl F. Schneider assignor of his right and said H. L. Schneider assignor of one-half of his right to A. E. Williams, Cleveland, Ohio. Fluid-compressor	632,756	Sept 12	1038	241	88	1927

Alphabetical list of patentees—Continued.

Name, residence, and invention.	No.	Date.	Monthly volume. Spec.	Monthly volume. Dr'g.	Official Gazette. Vol.	Official Gazette. Page.
Schneider, Charles, Union City, Conn. Fertilizer-distributer	620,977	Mar. 14	832	182	86	1675
Schneider, Edward F., North Yamhill, Oreg. Fruit-drier	628,212	July 4	471	113	88	94
Schneider, Franklin, assignor to Van Dorn & Dutton Company, Cleveland, Ohio. Car-truck	630,304	Aug. 1	1067	233	88	932
Schneider, Friedrich W., assignor to Electricitäts-Gesellschaft Triberg, Gesellschaft mit Beschränkter Haftung, Triberg, Germany. Storage battery	616,978	Jan. 3	208	47,48	86	41
Schneider, Friedrich W., assignor to Electricitäts-Gesellschaft Triberg, Triberg, Germany. Electric propulsion of vehicles	617,192	Jan. 3	630	147	86	123
Schneider, George, assignor to H. R. Oliver and C. E. Krebs, Baltimore, Md. Bit-holder for bridles	617,300	Jan. 3	832	194	86	164
Schneider, Herman B., Chicago, Ill. Dynamo	630,568	Aug. 8	1618	361	88	1052
Schneider, Homer L. (See Schneider, Carl F. and H. L.)						
Schneider, Hugo, Cleveland, Ohio. Combined pump and measure	624,550	May 9	1116	251	87	938
Schneider, John W., Lawrence, Kans. Feed-trough	627,356	June 20	2110	467	87	2064
Schneider, Joseph. (See Auble, James H., assignor.)						
Schneider, Joseph, Ashton-on-Mersey, England. Mercerizing	621,477	Mar. 21	1743	388	86	1863
Schneider, Louis, Mittweida, Germany. Apparatus for use in connection with napping-machines	633,664	Sept. 26	2768	643	88	2290
Schneider, Oscar, New York, N. Y. Electrotherapeutic and massage apparatus	617,543	Jan. 10	1297	293	86	273
Schneider, Philipp A., Mentz, Germany. Illumination-lamp	622,275	Apr. 4	135	31	87	29
Schnell, Franz, Cassel, Germany. Gambrel	630,935	Aug. 15	2248	513	88	1199
Schnepf, John, assignor of one-half to W. C. Doscher, New York, N. Y. Automobile	627,066	June 13	1579	345	87	1938
Schnepf, John, assignor of one-half to W. C. Doscher, New York, N. Y. Machine for cleaning ships' bottoms	633,910	Sept. 26	3190	742	88	2375
Schnepp, Hans, Augsburg, Germany. Tire for cycles	635,354	Oct. 24	2532	589	89	548
Schnepper, George E., New York, N. Y. Street-sweeper	617,055	Jan. 3	383	94	86	74
Schnetter, Paul, San Francisco, Cal. Mining apparatus	638,285	Dec. 5	184	39	89	1902
Schniewind, Frederic W. C., Pittsburg, Pa., assignor to United Coke and Gas Company, Charleston, W. Va., and Philadelphia, Pa. Coke-oven and operating same	627,595	June 27	2592	571	87	2175
Schnitzler, Bernhard, New York, N. Y. Nail	630,747	Aug. 8	1915	432	88	1108
Schnoor, John, Staceyville, Iowa. Window and curtain for buggy-tops	630,991	Aug. 15	2361	538	88	1221
Schnugg, Francis J. (See Kunz, Charles T., assignor.)						
Schnutz, Theodor, Hanover, Germany. Apparatus for drawing and preserving beer	635,514	Oct. 24	2884	658	89	617
Schobert, George, Racine, Wis. Grain-measuring device	625,940	May 30	3617	822	87	1482
Schock, Gustav, New York, N. Y. Grain-drier	625,358	May 23	2566	584 / 585	87	1260
Schockmann, Henry. (See Deplanty and Schockmann.)						
Schodorf, Andrew C., Galloway, Ohio. Tire-cooler	626,505	June 6	534	123	87	1717
Schodt, Paul G. de, Namur, Belgium. Atmospheric burner	626,302	June 6	154	37	87	1643
Schoeffel, George J., and J. J. Aylward, assignors to Signal and Control Company, New York, N. Y. Valve-controller	632,207	Aug. 29	4601	1037	88	1688
Schoeller, Adolf. (See Woelfle and Schoeller.)						
Schoeller, Gustav A., Mülheim-on-the-Ruhr, assignor to F. Krupp, Essen, Germany. Ammunition conveyer or rammer for guns	631,999	Aug. 29	4198	945	88	1608
Schoellkopf, C. P. Hugo, *et al.* (See Taggesell, Richard, assignor.)						
Schoellkopf, Jacob F., Jr., *et al.* (See Taggesell, Richard, assignor.)						
Schoen, Charles T., *et al.* (See Smith, John Y., assignor.)						
Schoenfeld, Charles, assignor to Diebold Safe and Lock Company, Canton, Ohio. Device for operating and locking prison-doors	635,602	Oct. 24	3035	697 / 698	89	645
Schoenfeldt, Frank, Chicago, Ill. Window	623,260	Apr. 18	1975	452	87	414
Schoenleber, Gottlob H., Stuttgart, Germany. Hat-fastener for boxes or cases	628,041	July 4	150	31	88	31
Schoenleber, John J., deceased, St. Paul, Minn.; J. Espy, administrator. Telephone instrument	639,830	Dec. 26	3040	699	89	2518
Schoenmehl, Charles B., assignor to Waterbury Battery Company, Waterbury, Conn. Galvanic battery	637,422	Nov. 21	2316	499	89	1424
Schoenner, Jean, Nuremberg, Germany. Toy phonograph	630,521	Aug. 8	1533	343	88	1034
Schoenthaler Manufacturing Company. (See Kochs, Benjamin, assignor.)						
Schoepke, Fred J. (See Kasper and Schoepke.)						
Schofield, Albert B., New York, N. Y. Seal	637,898	Nov. 28	3572	748	89	1732
Schofield, Henry P. (See Filstrup, Lars L., assignor.) (Reissue.)						
Schofield, Henry P. assignor of one-half to L. L. Filstrup, Chicago, Ill. Saw-clamp	620,255	Feb. 28	2671	612	86	1384
Schofield, James M., Stockton, Cal. Acetylene-gas generator	629,701	July 25	3243	755	88	686
Schofield, Joseph J., Providence, R. I. Split hub for wheels	629,525	July 25	2947	686	88	630
Schofield, Robert, New Bedford, Mass. Device for putting on belts	634,915	Oct. 17	1722	407	89	375
Schofield, Silas C., Freeport, Ill. Potato-planter	618,136	Jan. 24	2450	547	86	530
Schofield, Silas C., Freeport, Ill. Potato-digger	627,145	June 20	1717	377	87	1985
Schoknecht, Henry A., and J. C. Elgin, St. Louis, Mo. Mechanical toy	622,545	Apr. 4	653	153	87	124
Scholl, Franz. (See König and Scholl.)						
Scholl, Franz, assignor to Farbwerke, vormals Meister, Lucius & Brüning, Höchst-on-the-Main, Germany. Yellow basic disazo dye and making same	617,544	Jan. 10	1299	------	86	273
Scholl, Franz, and A. Hess, assignors to Farbwerke, vormals Meister, Lucius & Brüning, Höchst-on-the Main, Germany. Disazo dye and making same	626,985	June 13	1353	------	87	1894
Scholl, Frederick F., assignor to J. Hood & Co., Boston, Mass. Dental engine	621,154	Mar. 14	1161	252	86	1738
Schollenberger, Jacob. (See Lodge, Littleton W. T., assignor.)						
Schollerer, Robert A., Jr., and W. Sthal, Pittsburg, Pa. Nut-lock	633,391	Sept. 19	2265	533	88	2178
Scholz, Henry. (See Scholz, Louis A., assignor.)						
Scholz, Louis A., assignor of one-half to H. Scholz, Roanoke, Va. Measuring-faucet	637,672	Nov. 21	3145	651	89	1626
Schönfeld, Sigmund, Buda-Pesth, Austria-Hungary. Oil-filter	639,445	Dec. 19	2331	538	89	2357
Schooler, Jackson D., Sedalia, Mo. Door-banger	621,155	Mar. 14	1164	253	86	1739
Schoonover, Charles K., *et al.* (See Lane, John M., assignor.)						
Schoonover, John R., *et al.* (See Lane, John M., assignor.)						
Schoonover, Leon, Austinburg, Pa. Shears for cutting stalk-tobacco	633,736	Sept. 26	2899	673	88	2316
Schoonover, Noah E., Akron, Iowa, assignor to H. Noggle, Nora, S. D. Check-row corn-planter	618,209	Jan. 24	2591	572 / 573	86	555
Schopp, Johann, Dusseldorf, Germany. Brush	638,762	Dec. 12	1086	243	89	2099
Schoregge, Herman A., Wakefield, Nebr. Washing-machine	635,001	Oct. 17	1876	445	89	406
Schoregge, Herman A., Wakefield, Nebr. Bake-oven	639,099	Dec. 12	1673	387	89	2213
Schossow, Frederick A., Detroit, Mich. Tobacco-pipe	636,293	Nov. 7	120	26	89	946
Schott, Charles H., *et al.* (See Thurston, Horace, assignor.)						
Schott, Willlam, New York, N. Y. Cigar-tip cutter	630,119	Aug. 1	733	158	88	868
Schottenberg, Theodore H., Hubbard, Ohio. Combined chiffonnier and bath-tub	623,836	Apr. 25	3032	697	87	630
Schottle, Frank T., and H. C. Willitz, Sheboygan, Wis. Automatic carrier for electric wires	628,994	July 18	1959	455	88	418
Schowalter, Joseph P. (See Rosenbauer and Schowalter.)						
Schowalter, Joseph P., and G. A. Rosenbauer, assignors to Sanger Handle Bar and Plating Company, Milwaukee, Wis. Handle-bar	634,505	Oct. 10	1001	239	89	217

Alphabetical list of patentees—Continued.

Name, residence, and invention.	No.	Date.	Monthly volume. Spec.	Monthly volume. Dr'g.	Official Gazette. Vol.	Official Gazette. Page.
Schrade, George, and H. W. Shonnard, assignors to G. H. Davis, New York, N. Y. Electric piano	624,382	May 2	799	179	87	854
Schrader, Charles, Cincinnati, Ohio, and J. Overman, Covington, Ky. Machinery for drying cord	638,993	Dec. 12	1504	345	89	2179
Schrader, Frederick, Bridgeport, Conn. Handle-bar for bicycles	628,897	July 11	1786	415	88	367
Schrafft, Albert. (See Tabor, Clinton D., assignor.)						
Schramm, William C., Barton, Md. Curtain-fixture	625,422	May 23	2676	609	87	1281
Schraudner, Frederick, assignor to Gus V. Brecht Butchers' Supply Company, St. Louis, Mo. Cask	619,233	Feb. 7	819	180	86	973
Schreck, Joseph, *et al.* (See Hachmann, Frederick, assignor.)						
Schreffler, Levi I. (See Garner, Joseph H., assignor.)						
Schreiber, Carl, Breslau, Germany. Support for bicycles	634,480	Oct. 10	961	229, 230	89	214
Schreiber, Herman, assignor to Ohio Flint Glass Company, Dunkirk, Ind. Glass-finishing machine	623 291	Apr. 18	2028	466	87	425
Schreidt, Frank, Mansfield, Ohio. Safety-valve	635,149	Oct. 17	2179	508	89	465
Schreidt, Frank, Mansfield, Ohio. Safety-valve	635,150	Oct. 17	2181	508, 509	89	465
Schreiner, Frank J., Columbus, Ohio. Locking-clip for gas-pipe joints and ends	619,795	Feb. 21	1860	424	86	1216
Schreiner, Peter, Madison, Ind. Car-coupling	636,567	Nov. 7	600	132	89	1043
Schreuder, Jens G., Edgewood Park, assignor to Union Switch and Signal Company, Swissvale, Pa. Rail-joint	629,926	Aug. 1	348	77	88	790
Schreuder, Jens G., Edgewood Park, assignor to Union Switch and Signal Company, Swissvale, Pa. Switch mechanism	635,355	Oct. 24	2533	589	89	549
Schreuder, Jens G., Edgewood Park, assignor to Union Switch and Signal Company, Swissvale, Pa. Signaling apparatus	638,478	Dec. 5	559	116, 117	89	1974
Schriever, John W., Richland, Iowa. Fly-paper holder	628,494	July 11	1015	236	88	216
Schrock, Benjamin F., Tama, Iowa. Pillow-sham holder	618,440	Jan. 31	3039	672	86	654
Schröder, Wilhelm, Wiemelhausen, Germany. Making yellow prussiate of potash	624,383	May 2	802	------	87	854
Schroeder, Frederick, London, England. Bottle-stopper	624,384	May 2	802	180	87	854
Schroeder, Frederick W., assignor of one-half to P. W. Moran, London, England. Bottle-stopper	635,398	Oct. 24	2644	610	89	571
Schroeder, Frederick W., assignor of one-half to P. W. Moran, London, England. Hair-crimper	638,031	Nov. 28	3825	804	89	1781
Schroeder, Frederick W., and W. J. H. Carr-Boyd, assignors of one-half to C. D. Gill, London, England. Pneumatic tire for bicycles	639,100	Dec. 12	1676	387	89	2213
Schroeder, George G., Chicago, Ill., assignor to Domestic Fire Extinguisher Company, of Virginia. Fire-extinguisher	635,399	Oct. 24	2645	611	89	571
Schroeder, Heinrich. (See Küppers and Schroeder.)						
Schroeder, Henry L., Grand Rapids, Mich. Alarm for beer-casks	618,740	Jan. 31	3564	796	86	756
Schroeder, Max, Hamborn, assignor of two-thirds to Actien-Gesellschaft für Zink-Industrie, vormals Wilhelm Grillo, Obernausen, Germany, and A. Heckscher, New York, N. Y. Combining gases by contact process	636,924	Nov. 14	1345	------	89	1218
Schroeder, Max, Hamborn, assignor of two-thirds to Actien-Gesellschaft für Zink-Industrie, vormals Wilhelm Grillo, Oberhausen, Germany, and A. Heckscher, New York, N. Y. Catalytic material	636,925	Nov. 14	1346	------	89	1219
Schroer, Henry, New York, N. Y. Sawing-machine	626,303	June 6	156	37, 38	87	1643
Schroers, Hermann. (See Wilms, Remy, assignor.)						
Schroeter, Johan F., Copenhagen, Denmark. Cream-separator	625,067	May 16	2037	458	87	1135
Schryver, Washington I., Prophetstown, Ill. Napkin-holder	629,212	July 18	2349	545	88	493
Schubert, Gustave H., Laport, Cal. Printing attachment for roll-holders	639,101	Dec. 12	1677	387	89	2213
Schubert, Oscar. (See Betzoldt and Schubert.)						
Schubert, Theodor, Wald, Switzerland. Milk-cooling apparatus	629,876	Aug. 1	232	52	88	766
Schubert, William F., Oneida, N. Y. Thill-coupling	621,156	Mar. 14	1164	253	86	1739
Schuch, August, Hector, Minn. Vehicle-wheel	628,213	July 4	472	113	88	94
Schuch, William, New York, N. Y., assignor of one-halt to F. Lutz, West Hoboken, N. J. Hinge	629,396	July 25	2687	626	88	579
Schuchman, Frederick. (See Taylor, Hugh S., assignor.)						
Schuck, Louis, New York, N. Y. Necktie-fastener	620,677	Mar. 7	248	51	86	1550
Schuck, Oscar H., Philadelphia, Pa. Electric switch	617,193	Jan. 3	632	147	86	124
Schug, Charles J., Pittsburg, Pa. Puzzle	637,352	Nov. 21	2192	473	89	1399
Schüler, Georg, Stettin, Germany. Making superphosphates	631,181	Aug. 15	2700	------	88	1287
Schülke, August H. J., Berlin, Germany. Acetylene-gas burner	619,000	Feb. 7	398	83	86	887
Schülke, Ernst H. J., Berlin, Germany. Acetylene-gas burner	619,843	Feb. 21	1941	441	86	1233
Schülke, Julius H., Berlin, Germany. Acetylene-gas generator	622,276	Apr. 4	186	31	87	29
Schulmeister, Fritz, St. Louis, Mo. Fly-trap	635,813	Oct. 31	3438	793	89	739
Schultheiss, Joseph F., North Plainfield, N. J. Sink-trap protector	627,016	June 13	1500	328	87	1924
Schultz, Arthur E., Olney, Ill. Display-rack	632,065	Aug. 29	4328	972, 973	88	1634
Schultz, Charles P., Pawtucket, R. I. Dental root-drill	636,359	Nov. 7	222	49	89	965
Schultz, Clarence B., Charlottenburg, Germany. Cutting device for cigar-rolling machines	634,481	Oct. 10	962	230, 231	89	210
Schultz, Clarence B., Charlottenburg, Germany. Wrapping device for cigar-rolling machines	639,777	Dec. 26	2949	678, 679	89	2500
Schultz, Friedrich, Chicago, Ill. Propelling mechanism for boats	626,304	June 6	157	38	87	1643
Schultz, George W., Philadelphia, Pa. Gas-main bag	628,726	July 11	1467	341	88	306
Schultz-Hencke, Dankmar C. S., Berlin, assignor to E. Goldschmidt, Charlottenburg, Germany. Photographic-printing process	623,491	Apr. 18	2378	------	87	496
Schultz, Pauline, Hastings, Mich. Skirt-supporter and bustle	623,432	Apr. 18	2278	522	87	476
Schultz, Walter W., assignor to Wayne Works, Richmond, Ind. Seeding-machine	620,370	Feb. 28	2869	657	86	1423
Schultz, William J., Cincinnati, Ohio. Cake-turner	627,536	June 27	2468	543	87	2150
Schultze, William C., Buffalo, N. Y. Motor-carriage	635,603	Oct. 24	3040	698, 699	89	646
Schulz, Alfred F., Washington, D. C. Acetylene-gas generator	632,757	Sept. 12	1040	242	83	1927
Schulze, Andrew, assignor to Kingsland & Douglas Manufacturing Company, St. Louis, Mo. Roller baling-press	619,234	Feb. 7	820	180, 181	86	973
Schulze, Frederick, Cleveland, Ohio. Metal-turning machine	617,408	Jan. 10	1060	242, 243	86	226
Schulze, Gottfrid, Mayville, Wis. Safety-elevator	631,130	Aug. 15	2618	593	88	1270
Schulze, Leon F., Cleveland, Ohio. Apparatus for heating and hardening metallic articles	636,005	Oct. 31	3824	879	89	814
Schulze, Rudolf, Leipsic, Germany. Time-check	628,042	July 4	151	31	88	31
Schumacher, Ferdinand, Iron Ridge, Wis. Compressed-air mechanism for railway rolling-stock, &c	625,853	May 30	3453	784, 785	87	1452
Schumacher, Ferdinand, Iron Ridge, Wis. Compressed-air mechanism for vehicles	628,727	July 11	1469	341	88	306
Schumacher, James E., and W. R. Makins, York, England. Garment-supporter	622,717	Apr. 11	966	224	87	203

Alphabetical list of patentees—Continued.

Name, residence, and invention.	No.	Date.	Monthly volume. Spec.	Monthly volume. Dr'g.	Official Gazette. Vol.	Official Gazette. Page.
Schumacher, Peter A., Reynolds, N. D. Harrow	628,553	July 11	1139	265	88	240
Schumacker, George P. (See Mallinckrodt, John F., assignor.)						
Schuman, James B., Columbia City, assignor to Pneumatic Elevator and Weigher Company, Indianapolis, Ind. Vent device for pneumatic elevators	620,854	Mar. 7	591	128	86	1619
Schuman, James B., Columbia City, assignor to Pneumatic Elevator and Weigher Company, Indianapolis, Ind. Pneumatic elevator	623,109	Apr. 11	1682	388, 389	87	340
Schumann, Charles, Philadelphia, Pa., assignor to Garrett-Buchanan Company, of Pennsylvania. Paper-fringing machine	638,361	Dec. 5	342	72	89	1931
Schumann, Charles W., Jr. (See Ellingwood, Francis L., assignor.)						
Schumann, John G., Pittsburg, Pa. Street-car brake	622,930	Apr. 11	1347	309, 310	87	275
Schupmann, Ludwig, Aix-la-Chapelle, Germany. Optical correcting device for refracting-telescopes	620,978	Mar. 14	833	183	86	1675
Schürhoff, Eduard, Magdeburg-Buckau, Germany. Connecting-bracket for cycle or like frames	636,698	Nov. 7	847	188	89	1094
Schürmann, Eduard. (See Zschernig, Friedrich E., assignor.)						
Schuster, George, Dayton, Ohio. Counting or adding mechanism for cash-registers	631,231	Aug. 15	2780	630	88	1304
Schutt, Owen. (See Denyes and Schutt.)						
Schutte, Julia D., *et al.* (See Dotts, Hiram S., assignor.)						
Schutte, Louis, Philadelphia, Pa. Monocycle	627,596	June 27	2594	571, 572	87	2176
Schutz, Joseph M., assignor to Schutz-O'Neill Company, Minneapolis, Minn. Separator	619,353	Feb. 14	1036	232, 233	86	1032
Schutz, Joseph M., assignor to Schutz-O'Neill Company, Minneapolis, Minn. Grinding-mill	619,354	Feb. 14	1039	233	86	1033
Schutz-O'Neill Company. (See Schutz, Joseph M., assignor.)						
Schuyler, Daniel. (See Newell, Augustus, assignor.)						
Schuyler, Daniel, San Diego, assignor of one-half to A. Newell, Pasadena, Cal. Automatic sliding door	622,823	Apr. 11	1146	265	87	237
Schuyler, Wilton S., Oceanside, Cal. Motor-vehicle	624,689	May 9	1350	301, 302	87	985
Schwab, Rudolph J., Milwaukee, Wis. Grate	635,400	Oct. 24	2648	611	89	572
Schwager, Conrad, Charlottenburg, Germany. Malting apparatus	625,809	May 30	3380	767	87	1437
Schwahn, Gustav, St. Louis, Mo. Reducing aluminium from its compounds	626,635	June 6	743	171, 172	87	1758
Schwarting, Richard, New York, N. Y. Crutch	619,235	Feb. 7	826	181	86	974
Schwartz, John. (See Lewis and Schwartz.)						
Schwartz, Nicholas, Aurora, Ind. Combined roller and harrow	639,697	Dec. 19	2792	643, 644	89	2450
Schwartz, Sophia, Champion, Mich. Cooking vessel	630,414	Aug. 8	1327	298	88	995
Schwarz, Arthur, Berlin-Schöneberg, Germany. Photographic developing apparatus	623,837	Apr. 25	3033	697	87	639
Schwarz, Gustav and R., Vienna, Austria-Hungary. Calculating-machine	637,167	Nov. 14	1815	390	89	1309
Schwarz, Jacob, New York, N. Y. Easel	621,856	Mar. 28	2449	546	86	2016
Schwarz, Johannes, Mentz, Germany. Abdominal bandage	623,566	Apr. 25	2526	581	87	543
Schwarz, Rudolf. (See Schwarz, Gustav and R.)						
Schwarz, Solomon, assignor to H. Gallert, New York, N. Y. Belt-holder	626,101	May 30	3994	910	87	1549
Schwarz, William, *et al.* (See Sendlein, Andreas, assignor.)						
Schwarzenbach, Johannes. (See Bodmer and Schwarzenbach.)						
Schwedtmann, Ferdinand. (See Layman and Schwedtmann.)						
Schwedtmann, Ferdinand. (See Pillsbury and Schwedtmann.)						
Schwedtmann, Ferdinand, St. Louis, Mo. Electric terminal	631,970	Aug. 29	4143	932	88	1599
Schwedtmann, Ferdinand, St. Louis, Mo. Electric switch	636,360	Nov. 7	223	49, 50	89	965
Schweitzer, Albert, Allegheny, Pa. Electric-arc lamp	619,090	Feb. 7	553	117	86	918
Schweitzer, Frederick J. (See Mittinger, George E., Jr., assignor.)						
Schweizer, Carl, Philadelphia, Pa. Dentist's mercury-holder	617,777	Jan. 17	1745	391	86	377
Schweppenhiser, Eleazer, *et al.* (See Kline, John, assignor.)						
Schwerd, Albert F., and A. W. Emrick, assignors of one-third to A. H. Schwerd, Allegheny, Pa. Wooden column	628,898	July 11	1797	416	88	368
Schwerd, Albert H. (See Schwerd and Emrick, assignors.)						
Schwickerath, Karl, Detroit, Mich. Extracting nuclein from yeast	637,353	Nov. 21	2193	------	89	1399
Schwickerath, Karl, Detroit, Mich. Compound of iron and nuclein and making same	637,354	Nov. 21	2194	------	89	1399
Schwickerath, Karl, Detroit, Mich. Compound of nuclein and mercury	637,355	Nov. 21	2195	------	89	1399
Schwone, John H., and E. W. Lamper, Salamanca, N. Y. Eaves-trough	617,658	Jan. 10	1512	343	86	314
Sciama, Joseph G., and K. M. Sosnowski, Paris, France, assignors to Aktiebolaget de Lavals Angturbin, Stockholm, Sweden. Packing for yielding rotary shafts	629,136	July 18	2226	516	88	471
Scofield, Edward S., Ridgeway, N. Y. Wire-fence machine	619,355	Feb. 14	1042	234	86	1033
Scotch Elevator Company. (See Keenan, Thomas, assignor.)						
Scotford, Louis K., Chicago, Ill. Vulcanizing-press	623,838	Apr. 25	3034	698	87	639
Scotford, Louis K., as , ior to Independent Manufacturing Company, Chicago, Ill. Hand-stamp	634,371	Oct. 3	760	181	89	152
Scott, A. J., *et al.* (See Levin, Rudolph L., assignor.)						
Scott, Amalia, New York, N. Y. Shoulder-brace	639,446	Dec. 19	2831	538	89	2357
Scott, Andrew H., *et al.* (See Scoville, George L., assignor.)						
Scott, Andrew R. (See Vogt and Scott.)						
Scott, Barton W., assignor to Globe Developement Company, San José, Cal. Coin-controlled vending apparatus	633,966	Sept. 26	3287	766	88	2394
Scott, Burton W., Detroit, Mich. Means for attaching sprocket-wheels to crank-shafts	627,597	June 27	2596	572	87	2176
Scott, Charles C., assignor to G. W. Howell, Covington, Ky. Illuminated display-sign	632,882	Sept. 12	1297	298	88	1977
Scott, Charles H., Gloucester, England. Apparatus for use in manufacturing inlaid linoleum	638,071	Nov. 28	3876	816, 817	89	1792
Scott, Charles F., Pittsburg, Pa., assignor to Westinghouse Electric and Manufacturing Company, of Pennsylvania. System of electrical distribution	622,866	Apr. 11	1228	285	87	252
Scott, Charles S., Keystone, Ind. Switch-operating mechanism	618,621	Jan. 31	3351	745	86	714
Scott, Charles S., assignor of one-half to B. J. Norby, Cassville, Mo. Eaves-trough	623,110	Apr. 11	1689	390	87	342
Scott, Dane, assignor of one-half to P. A. Stippich, Delphos, Ohio. Railway-crossing	630,748	Aug. 8	1916	432	88	1109
Scott, Dugald, assignor to Jones Brothers & Co., Manchester, England. Device for cleaning gun-barrels	621,857	Mar. 28	2450	546, 547	86	2017
Scott, Earnest A. (See Scott, James W. and E. A.)						
Scott, Edward. (See Rodgers and Scott.)						
Scott, Erastus W., Danielson, Conn. Whip-socket	632,971	Sept. 12	1436	332	88	2004
Scott, Frank S. D., London, England. Apparatus for assorting and counting coins	634,506	Oct. 10	1002	239	89	218
Scott, Frank S. D., assignor to Globe Cashier, (British and Foreign,) Limited, London, England. Till and means for checking cash receipts	635,943	Oct. 31	3695	853, 854	89	788
Scott, Frederick B., London, England. Boiler	620,979	Mar. 14	837	183	86	1676
Scott, George E., assignor to M. B. Scott, Independence, Iowa. Sheet-music rack and leaf-turner	626,192	May 30	4178	950	87	1585

Alphabetical list of patentees—Continued.

Name, residence, and invention.	No.	Date.	Monthly volume.		Official Gazette.	
			Spec.	Dr'g.	Vol.	Page.
Scott, George W., assignor to Pullman's Palace Car Company, Chicago, Ill. Car-truck	635,151	Oct. 17	2183	509 510	89	466
Scott, Harry W., Stratford, New Zealand. Liquid for branding cattle	629,526	July 25	2948		88	630
Scott, Herbert W., Olean, Mo. Log-lifter	626,102	May 30	3994	910	87	1549
Scott, Jacob R. (See Dancel and Scott.)						
Scott, Jacob R., and C. Dancel, deceased, New York, N. Y.; M. and C. Dancel, administrators. Sewing-machine	619,624	Feb. 14	1503	342 343	86	1121
Scott, James, Hakodadi, Japan. Rotary engine	626,870	June 13	1231	272	87	1870
Scott, James, Hakodadi, Japan. Boiler-feeding apparatus	629,615	July 25	3104	723	88	660
Scott, James, Pittsburg, Pa. Relief-valve	637,037	Nov. 14	1556	335	89	1261
Scott, James E., Louisville, Ky., assignor of one-half to B. E. Brown, Detroit, Mich. Dust-guard for passenger-cars	629,306	July 18	2504	583 584	88	521
Scott, James S., Archer City, Tex. Tool	623,041	Apr. 11	1540	356	87	314
Scott, James W. and E. A., Marion, Ohio. Excavating-machine operated by traction	626,725	June 13	928	210 211	87	1812
Scott, John E., Philadelphia, Pa. Last-block fastener	625,705	May 23	3157	717	87	1376
Scott, John E., Philadelphia, Pa. Last-block fastener	637,292	Nov. 21	2064	442	89	1372
Scott, Joseph H., and S. H. Brown, San Francisco, Cal. Automatic fingering device for stringed instruments	634,121	Oct. 3	264	65, 66	89	55
Scott, Josiah, Toledo, Ohio. Stylus for producing illuminated sentences	635,814	Oct. 31	3439	793	89	739
Scott, Josiah, Toledo, Ohio. Electric advertising device	638,479	Dec. 5	562	117	89	1974
Scott, Lucien J., and F. A. Cameron, Bogue Chitto, Miss. Memorandum-tag	629,616	July 25	3106	723	88	660
Scott, Mary B. (See Scott, George E., assignor.)						
Scott, Masters. (See Miller, John F., assignor.)						
Scott-Moncrieff, William D., London, England. Apparatus for purifying sewage	624,985	May 16	1900	426	87	1110
Scott, Nancy J., Indianapolis, Ind. Vessel for retaining flavor of food supplies	636,457	Nov. 7	380	85	89	998
Scott, Orla J., Chicago, Ill. Boiler-feeder	618,484	Jan. 31	3103	687 688	86	667
Scott, Orla J., and W. W. Holmes, Chicago Heights, assignors to Q & C Company, Chicago, Ill. Filter	630,569	Aug. 8	1619	362	88	1052
Scott, Robert, Glenside, Pa., assignor to T. Devlin & Co. Register	622,277	Apr. 4	137	32	87	29
Scott, Robert M., Strathfield, and A. Goodsir, Balmain, New South Wales. Apparatus for drilling rock	635,271	Oct. 17	2379	555	89	502
Scott, Robert W., *et al.* (See Swinglehurst, Harry, assignor.)						
Scott, Thomas. (See Cook and Cohoon, assignors.)						
Scott, Virgil A., Norwich, N. Y. Mitten	630,078	Aug. 1	671	144	88	856
Scott, Walter, Plainfield, N. J. Printing-machine	625,470	May 23	2753	626 627	87	1296
Scott, Walter, Plainfield, N. J. Inking apparatus for printing-presses	626,871	June 13	1234	272 273	87	1871
Scott, Walter, Plainfield, N. J. Inking apparatus for printing-presses	626,872	June 13	1237	273	87	1871
Scott, Walter, Plainfield, N. J. Sheet-delivery apparatus	633,392	Sept. 19	2266	534	88	2179
Scott, Walter, Plainfield, N. J. Printing-press	633,616	Sept. 26	2690	626 627	88	2274
Scott, William, Medford, Mass. Chuck	635,944	Dec. 26	3235	742	89	2557
Scott, William, assignor of one-half to H. M. Evans, Kansas City, Mo. Vapor-burner	633,617	Sept. 26	2693	627	88	2274
Scott, William A. (See Wolf, Elmer E., assignor.)						
Scott, William H., St. Louis, Mo. Engine	625,471	May 23	2754	627	87	1296
Scott, William M., Philadelphia, Pa., assignor to Cutter Electrical and Manufacturing Company, of New Jersey. Automatic magnetic circuit-breaker	619,091	Feb. 7	555	117	86	919
Scott, William M., Philadelphia, Pa., assignor to Cutter Electrical and Manufacturing Company, of New Jersey. Automatic magnetic circuit-breaker	624,895	May 9	1736	392	87	1060
Scott, William M., Philadelphia, Pa., assignor to Cutter Electrical and Manufacturing Company, of New Jersey. Automatic magnetic circuit-breaker	629,397	July 25	2687	626	88	579
Scott, William M., Philadelphia, Pa., assignor to Cutter Electrical and Manufacturing Company, of New Jersey. Automatic magnetic circuit-breaker	636,458	Nov. 7	381	85	89	998
Scott, William M., Philadelphia, Pa., assignor to Cutter Electrical and Manufacturing Company, of New Jersey. Polyphase alternating-current magnet	639,447	Dec. 19	2332	539	89	2357
Scovill Manufacturing Company. (See Dunn, Beverly W., assignor.)						
Scovill Manufacturing Company. (See Eddy, George W., assignor.)						
Scovill Manufacturing Company. (See Goss, John H., assignor.)						
Scovill Manufacturing Company. (See Goss, John H. and E. O., assignors.)						
Scovill Manufacturing Company. (See Goss and Eddy, assignors.)						
Scovill Manufacturing Company. (See Hyde, Theophilus R., Jr., assignor.)						
Scovill Manufacturing Company. (See Leighton, Edward J. and M. D., assignors.)						
Scovill Manufacturing Company. (See Shipley, Alfred J., assignor.)						
Scovill Manufacturing Company. (See Stanley and Warner, assignors.)						
Scoville, Eda A., *et al.* (See Scoville, George L., assignor.)						
Scoville, George L., assignor of three-fourths to E. A. Scoville, A. H. Scott, and C. A. Ward, West Superior, Wis. Weather-strip	639,831	Dec. 26	3041	790	89	2518
Scranton, Frederick A., assignor to Bevin Brothers Manufacturing Company, East Hampton, Conn. Bell-striking mechanism	639,689	Dec. 19	2778	641	89	2447
Scranton, James B., New Haven, Conn. Vertical boiler	632,283	Sept. 5	147	34	88	1736
Screwless Door Knob Company. (See Stoddard, Oscar, assignor.)						
Scribner, Charles E., Chicago, Ill. Multiple-switchboard system	632,067	Aug. 29	4333	974	88	1635
Scribner, Charles E., assignor to Western Electric Company, Chicago, Ill. Connection-counting mechanism for telephone-lines	617,839	Jan. 17	1873	419	86	404
Scribner, Charles E., assignor to Western Electric Company, Chicago, Ill. Lock-out mechanism for party telephone-lines	617,840	Jan. 17	1878	419	86	405
Scribner, Charles E., assignor to Western Electric Company, Chicago, Ill. Signal for telephone-switchboards	618,137	Jan. 24	2452	547	86	530
Scribner, Charles E., assignor to Western Electric Company, Chicago, Ill. Telephone-exchange system	632,066	Aug. 29	4330	973	88	1634
Scribner, Charles E., assignor to Western Electric Company, Chicago, Ill. Electric annunciator	634,095	Oct. 3	195	49	89	43
Scribner, Charles E., assignor to Western Electric Company, Chicago, Ill. Current-supply circuit for telephones	638,422	Dec. 5	453	93	89	1952
Scribner, Charles E., assignor to Western Electric Company, Chicago, Ill. Signal-lamp and socket	638,423	Dec 5	454	94	89	1953
Scribner, Charles E., assignor to Western Electric Company, Chicago, Ill. Thermal protector	638,424	Dec. 5	456	94	89	1953
Scribner, Charles E., assignor to Western Electric Company, Chicago, Ill. Signal for telephone-switchboards	638,425	Dec. 5	457	94	89	1953
Scribner, Charles E., assignor to Western Electric Company, Chicago, Ill. Supervisory signal for telephone-switchboards	638,426	Dec. 5	461	94	89	1954
Scribner, Charles E., assignor to Western Electric Company, Chicago, Ill. Toll-collecting appliance for telephone-stations	638,480	Dec. 5	564	117	89	1974

Alphabetical list of patentees—Continued.

Name, residence, and invention.	No.	Date.	Monthly volume.		Official Gazette.	
			Spec.	Dr'g.	Vol.	Page.
Scribner, Elbridge L., Amesbury, Mass. Carpet-stretcher	630,079	Aug. 1	672	144	88	856
Scribner, Elmer C., Neversink, N. Y. Invalid-bedstead	629,275	July 18	2448	567, 568	88	511
Scribner, George W., London, Canada. Organ	625,472	May 23	2756	628	87	1296
Scripture, Oliver O., Prescott, Ariz. Adjustable stock for firearms	628,360	July 4	773	180	88	149
Scriven, Jeremiah A. (See Delane, Anson W., assignor.)						
Scriven, Jeremiah A., New York, N. Y. Garment	625,423	May 23	2677	609	87	1282
Scriven, Jeremiah A., New York, N. Y. Nether garment	637,356	Nov. 21	2196	473	89	1399
Scroggins, Robert H., Leesburg, Va., assignor of one-half to O. F. Bresee, Jr. Washing-machine	626,636	June 6	749	172	87	1759
Scroggs, Francis R. D. (See Scroggs and Saxby.)						
Scroggs, Harold C., St. Albans, F. R. D. Scroggs and C. F. A. Saxby, London, England. Registering device for type-writing machines	630,305	Aug. 1	1069	233	88	933
Scull, William R., Christchurch, New Zealand, assignor to W. W. Cabena, Melbourne, Victoria. Last	618,296	Jan. 24	2746	609	86	584
Scullin, Thomas F., *et al.* (See Vansickle, Alexander A., assignor.)						
Scully, John S., Pittsburg, Pa. Coal-bag	637,673	Nov. 21	3146	652	89	1626
Scully, Wade H., Newark, N. J. Detachable trunk-desk	638,032	Nov. 28	3825	804, 805	89	1781
Scutt, Delivan W., Watkins, N. Y. Bowl or basin for water-closets	625,125	May 16	2150	488	87	1155
Seaberg, Gustave, New York, N. Y. Automatic lock for dumb-waiters	617,194	Jan. 3	633	148	86	124
Seaborg, John O., and C. Christensen, Chicago, Ill. Hot-air furnace	622,278	Apr. 4	138	32	87	29
Seabury, William M., New York. N. Y. Shaving-brush	625,960	May 30	3663	831	87	1491
Seadler, Bernard F. (See Watkins, Alfred E., assignor.)						
Seager, James B., assignor to Mackolite Fireproofing Company, Chicago, Ill. Machine for manufacturing building-tiles	623,261	Apr. 18	1977	453, 454	87	414
Seagrave, Frederic S., Columbus, Ohio. Base attachment for ladders	625,066	May 16	2036	458	87	1135
Seagrave, Frederic S., Columbus, Ohio. Vehicle or truck side frame	632,541	Sept. 5	617	142	88	1829
Seagrave, George, Walthamstow, and S. B. Bevington. London, England. Apparatus for heating air by steam or vapor heat	633,911	Sept. 26	3191	743	88	2375
Seahorn, Christian, Schenectady, N. Y. Valve	638,362	Dec. 5	345	72	89	1932
Sealy, William H., assignor to Buhl Stamping Company, Detroit, Mich. Apparatus for crating or packing can-stock	630,936	Aug. 15	2249	513	88	1200
Seaman, Charles H. (See Brooker, Norton, assignor.)						
Seaman, Charles H., *et al.* (See Hall, Clifford P., assignor.)						
Seaman, Delbert O., Seattle, Wash. Flushing device for water-closets	626,346	June 6	244	57	87	1661
Seaman, Harry J. (See Hurry and Seaman.)						
Seamless Rubber Company. (See Longden, Charles E., assignor.)						
Searing, Benjamin T. (See Gage and Searing.)						
Searle, Barry. (See Kemmis-Betty and Searle.)						
Searle, Ephraim, *et al.* (See Baker, James D., assignor.)						
Searle, Frederick, assignor to Coes Wrench Company, Worcester, Mass. Wrench	622,824	Apr. 11	1149	265	87	237
Searle, Herman S. (See Wagner and Searle.)						
Searles, Charles P., assignor to S. L. Black, Columbus, Ohio. Duplicating memorandum-pad	630,120	Aug. 1	735	158	88	869
Sears, James A., Grand Haven, Kans. Hay or stock rack	639,102	Dec. 12	1678	388	89	2213
Sears, William, Malden, Mass. Type-writer	623,262	Apr. 18	1981	454	87	415
Sears, William A., Jr., assignor of one-half to C. H. Emery, Bedford, Ind. Fertilizer-distributer attachment for cultivators	626,726	June 13	931	211, 212	87	1813
Seaton, Benjamin C., assignor to Electric Third Rail and Signal Company, St. Louis, Mo. Electric train-signaling system	620,806	Mar. 7	498	105, 106	86	1599
Seaver, Augustus. (See Bullard, Fred P., assignor.)						
Seaver, Augustus. (See Eaton, Arthur W., assignor.)						
Seaver, John W. (See Babcock and Seaver.)						
Seaver, John W. (See Wellman, Seaver, and Wellman.)						
Seavey, Charles O., South Framingham, assignor to J. A. Thompson, F. W. Cheney, and J. S. Thompson, Lowell, Mass. Saw-guide for sawing material for forming miter-joints	622,190	Mar. 28	3072	696	86	2139
Seay, Julius M., assignor of one-half to G. Wooster, Woodbury, Ga. Fertilizer-distributer	621,157	Mar. 14	1166	253, 254	86	1739
Sebastian, Charles, assignor to Markle Lead Works, St. Louis, Mo. Target-trap	619,625	Feb. 14	1504	343	86	1121
Sebastian, Charles, St. Louis, Mo., assignor to Union Staple Seam Re-Enforcing Company, of Missouri. Staple-setting machine	634,859	Oct. 10	1631	381	89	339
Sebring, George, Lehighton, J. and C. E. Arner, Weissport, Pa. Car-truck	627,210	June 20	1826	400	87	2006
Sechrist, Ammon S., Verdilla, Pa. Condiment-holder	618,138	Jan. 24	2455	547	86	531
Seckford, Christian E., Cincinnati, Ohio. Combined molding, ornamenting, and graining machine	626,305	June 6	158	38	87	1644
Seckler, William, Corvallis, Oreg. Rotary harrow	629,474	July 25	2835	658	88	608
Secor, Horace J., assignor of one-half to J. A. Turney, Toledo, Ohio. Burial-casket	620,980	Mar. 14	838	183	86	1676
Secor, John A., New York, N. Y. Speed-regulator for explosive-engines	623,567	Apr. 25	2528	581	87	543
Secor, John A., New York, N. Y. Explosive-engine	623,568	Apr. 25	2530	582	87	544
Secor, John A., New York, N. Y. Means for marine propulsion	634,217	Oct. 3	436	111, 112, 113	89	91
Security Investment Company. (See Reed, Charles J., assignor.)						
Sedgwick, Alonzo, Poughkeepsie, N. Y. Automatic friction-clutch	625,359	May 23	2569	585	87	1260
Sedgwick, Hiram G., Des Moines, Iowa. Railway-chronograph	623,569	Apr. 25	2531	582	87	544
Sedgwick, Hiram G., Des Moines, Iowa. Railway-chronograph	624,385	May 2	804	180	87	854
Sedgwick, Isham, Richmond, Ind. Traction-engine	621,158	Mar. 14	1167	254	86	1740
See, Alonzo B., *et al.* (See Lindstrom, Nils O., assignor.)						
See, Alonzo B., and A. Cowperthwait, assignors to A. B. See Manufacturing Company, New York, N. Y. Safety device for elevators	638,763	Dec. 12	1086	243, 244	89	2099
See, Alonzo B., N. O. Lindstrom, and D. A. Mason, New York, N. Y. Electric elevator	617,128	Jan. 3	516	123, 124	86	101
See, De Witt C., Mechanicsville, N. Y. Boot-strap	628,164	July 4	386	91	88	78
See, De Witt C., Mechanicsville, N. Y. Eyelet	628,165	July 4	388	91	88	79
See, Horace. (See Trewent and Proctor, assignors.)						
See, Horace, New York, N. Y. Ash-ejector	631,825	Aug. 29	3891	869	88	1519
See, Horace, New York, N. Y. Cross-hatch cover	637,423	Nov. 21	2318	500	89	1424
Seeberger, Charles D. (See Wheeler, George A., assignor.)						
Seeberger, Charles D., Chicago, Ill. Elevator	617,778	Jan. 17	1746	391, 392	86	377
Seeberger, Charles D., Chicago, Ill. Elevator	617,779	Jan. 17	1752	392, 393, 394, 395	86	378

Alphabetical list of patentees—Continued.

Name, residence, and invention.	No.	Date.	Monthly volume.		Official Gazette.	
			Spec.	Dr'g	Vol.	Page.
Seeberger, Charles H. (See Foote, Theodore M., assignor.)						
Seefeld, Herbert G. (See Ebert and Seefeld.)						
Seeger, Charles E., *et al.* (See Bléha, William V., assignor.)						
Seel, Carl. (See Wever and Seel.)						
Seeley, Lewis S., New York, N. Y. Tooth-crown	636,568	Nov. 7	602	132	89	1044
Seelinger, Henry, Norfolk, Va. Shield or protector for bottles	631,182	Aug. 15	2702	611	88	1287
Seelinger, Henry, Norfolk, Va. Non-refillable bottle	631,183	Aug. 15	2703	611	88	1288
Seely, Fred L., Asheville, N. C. Apparatus for measuring, delivering, and wrapping powders	634,837	Oct. 10	1583	371	89	332
Seely, George A., Emmetsburg, Iowa. Curtain-pole	627,942	June 27	3213	704	87	2301
Seely, George A., Emmetsburg, Iowa. Sash-fastener	627,943	June 27	3214	704	87	2301
Seely, Jay S., Syracuse, and E. M. Rodenberger, Walworth, N. Y. Acetylene-gas machine	640,035	Dec. 26	3411	782	89	2593
Seely, Lewis H., Jolley, Iowa. Wheel for traction-engines	639,298	Dec. 19	2043	470	89	2300
Seely, Samuel F., Toledo, Ohio. Portable folding cot and canopy	626,010	May 30	3800	864	87	1517
Seery, Thomas B., New York, N. Y. Steamer-trunk	621,375	Mar. 21	1557	345, 346	86	1829
Seevers, Thomas, Oskaloosa, Iowa. Acetylene-gas generator	636,006	Oct. 31	3825	879, 880	89	814
Seggese, Emanuel, Perryopolis, Pa. Wagon-brake	635,109	Oct. 17	2101	493	89	451
Segschneider, Gustav, Yonkers, N. Y. Machine for flanging hat-brims	624,690	May 9	1356	302, 303	87	986
Segschneider, Gustav, Yonkers, N. Y. Machine for ironing down curls of hat-brims	624,691	May 9	1360	304	87	987
Segschneider, Gustav, Yonkers, N. Y. Machine for rounding hat-brims	632,153	Aug. 29	4496	1012, 1013	88	1669
Sehrwald, Otto, Hamburg, Germany. Ball-toothed driving-gear	636,007	Oct. 31	3829	880	89	814
Seib, George A., New York, N. Y., assignor to Franklin Typewriter Company, of New York. Ribbon-feed-reversing mechanism for type-writers	624,107	May 2	295	62	87	757
Seib, Philip L., Millstadt, Ill. Threshing and separating machine	631,826	Aug. 29	3893	869, 870	88	1550
Seib, Simon H. M., Jersey City, N. J. Clothes-line pulley	635,604	Oct. 24	3043	699	89	647
Seibert, Bennett F., Mansfield, Ohio. Rigid bail for coal-scuttles or other receptacles	627,273	June 20	1948	429	87	2032
Seidel, James F., Reading, Pa. Washing-machine	624,551	May 9	1117	252	87	938
Seidel, Paul. (See Knietsch and Seidel.)						
Seidel, William H., *et al.* (See Meyer, Svend M., assignor,)						
Seifert, Wilhelm A. (See Wiegand and Seifert.)						
Seifried, Kasper, Mamaroneck, N. Y. Rotary engine	632,542	Sept. 5	618	142	88	1830
Seifried, Mathias J., South Bend, Ind. Plow	628,899	July 11	1788	416, 417	88	368
Seigliano, George A. (See Masini, Lorenzo, assignor.)						
Seiple, Lincoln, Alexandria, Ind. Rake	629,927	Aug. 1	349	77	88	790
Seips, Michael. (See Savage and Seips.)						
Seisel, Emil F., Norwood, Mass. Steam-trap	621,159	Mar. 14	1171	254	86	1740
Seislmeir, Joseph. (See Steinhorst and Seislmeir.)						
Seitter, Frederick. (See Faunce, George W., assignor.)						
Sekian, Sarkis H., Manchester, England. Machine for ironing shirt-fronts or other articles	619,698	Feb. 14	1653	379, 380	86	1150
Selby, Frederick, assignor to J. C. Fender, Chester, Pa. Fireproof-floor construction	636,569	Nov. 7	603	132, 133	89	1044
Selden, Arthur T., and O. T. Smith, Baltimore, Md. Account-book	620,506	Feb. 28	3082	704	86	1463
Seldner, Jonas J. (See Snyder and Seldner.)						
Seldon, William H., Jr. (See Way, George P., assignor.)						
Self Winding Clock Company. (See Gerry, James H., assignor.)						
Selg, Otto, New York, N. Y. Mashing apparatus	628,232	July 4	508	123	88	101
Seligmann-Lui, Gustave, Paris, France, assignor to Automatic Telephone Company, Limited, London, England. System of automatic telephone-exchanges	639,186	Dec. 12	1808	419, 420, 421, 422	89	2239
Sell, Leroy A., Philadelphia, Pa. Work-box	623,292	Apr. 18	2030	467	87	426
Sell, Ludwig, assignor to Apotheker Ludwig Sell & Co., Pasing, Germany. Saligenin compound and making same	630,522	Aug. 8	1535	------	88	1035
Sell, William E., assignor to Gilliam Manufacturing Company, Canton, Ohio. Bit	634,769	Oct. 10	1467	345	89	308
Sell, William E., and W. C. Maynard, Canton, Ohio. Clamping-buckle	632,793	Sept. 12	1118	257	88	1944
Sellars, John C., Birkenhead, England. Cement	633,618	Sept. 26	2695	------	88	2275
Selleck, Wallace L., Platteville, Wis. Grain-adjusting apron for harvesters	627,274	June 20	1949	429	87	2032
Sellers, Coleman, Philadelphia, Pa., assignor, by mesne assignments, to Niagara Falls Power Company, Niagara Falls, N. Y. Dynamo-electric machine	621,717	Mar. 21	2174	488	86	1949
Sellers, George B., Marshalltown, Iowa. Grain threshing and separating machine	634,148	Oct. 3	309	79	89	65
Sellers, William. (See Putnam and Sellers.)						
Sellers, William, Haverhill, Mass. Bedstead-insulator	632,851	Sept. 12	1222	279	88	1965
Sellers, William, and J. S. Bancroft, assignors to William Sellers & Company, Incorporated, Philadelphia, Pa. Machine for applying cement to fabrics	637,674	Nov. 21	3148	652	89	1627
Sellers, William, and W. Lewis, Philadelphia, Pa., assignors to William Sellers & Company, Incorporated, of Pennsylvania. Annular slide-valve	637,487	Nov. 21	2425	526, 527	89	1445
Selowsky, Gustave, New York, N. Y. Necktie	633,047	Sept. 12	1567	364	88	2030
Seltner, Wilhelm, Schlan, Austria-Hungary, assignor to H. Kühne, London, England. Separator for granular or like materials	626,306	June 6	161	39	87	1644
Seltzer, Cyrus, J., Philadelphia, Pa. Atomizer and nebulizer	638,481	Dec. 5	567	117	89	1975
Seltzer, John F. (See Sommer, George, assignor.)						
Seltzer, Joseph A., *et al.* (See Stump and Brucker, assignors.)						
Selwig, Johannes, Brunswick, Germany. Hydraulic conveyer for guncotton	638,647	Dec. 5	863	188	89	2032
Selzer, Julius M., St. Louis, Mo. Pocket for wagon-stakes	623,042	Apr. 11	1541	356	87	314
Semelroth, William J., assignor of one-third to W. H. Herrick, St. Louis, Mo. Blackboard	634,149	Oct. 3	310	79	89	65
Semerak, Josef, Niederlössnitz, Germany. Massage apparatus	634,590	Oct. 10	1156	275	89	247
Semmer, Mary C. (See Semmer, Phillip, assignor.)						
Semmer, Phillip, Pittsburg, Pa. Machine for grinding and polishing glass	639,621	Dec. 19	2639	606	89	2420
Semmer, Phillip, Irwin, Pa., assignor to M. C. Semmer. Making rough plate-glass	628,120	July 4	306	72	88	61
Senderling, Martin L., Jersey City, N. J. Spring	626,873	June 13	1241	273	87	1872
Sendlein, Andreas, assignor of three-fourths to F. J. Dauscha, J. C. Miller, and W. Schwarz, St. Louis, Mo. Fire-kindler	620,186	Feb. 28	2554	579	86	1361
Seng Company. (See Seng, Frank J., assignor.)						
Seng Company. (See Seng, Julius T., assignor.)						
Seng, Frank J., Chicago, Ill. Couch-leg	638,764	Dec. 12	1089	244	89	2100
Seng, Frank J., assignor to Seng Company, Chicago, Ill. Furniture-spring	618,910	Feb. 7	159	34	86	836
Seng, Julius T., assignor to Seng Company, Chicago, Ill. Box-couch hinge	635,605	Oct. 24	3044	699	89	647

Alphabetical list of patentees—Continued.

Name, residence, and invention.	No.	Date.	Monthly volume. Spec.	Monthly volume. Drg.	Official Gazette. Vol.	Official Gazette. Page.
Sengel, Adolf, Darmstadt, Germany. Continuous-current shunt-machine	624,986	May 16	1902	426	87	1110
Sengelmann, Charles, *et al.* (See Stahl, Adolf, assignor.)						
Sengelmann, Gustav, *et al.* (See Stahl, Adolf, assignor.)						
Senior, Joseph, Wakefield, R. Bury, and H. M. Walker, Barnsley, England; said Senior assignor to said Bury and Walker. Apparatus for drying grain	617,816	Jan. 17	1836	410	86	397
Sennet, Frank A. (See Filstrup and Sennet.)						
Sennevoy, Robert P. de, Paris, France. Apparatus for stoppering bottles	627,657	June 27	2704	593	87	2198
Sennstrom, Harald, Chicago, Ill. Combined support and mud-guard for bicycles	619,796	Feb. 21	1861	424	86	1216
Sentenne, Edmond H., and J. E. Green, New York, N. Y. Sign	619,797	Feb. 21	1863	425	86	1217
Seren, Michael C., Toledo, Ohio. Die-holder for screw-threading machines	638,601	Dec. 5	778	169	89	2015
Sergeant, Henry C., Westfield, N. J. Acetylene-gas generator	619,509	Feb. 14	1310	301	86	1086
Sergeant, Henry C., Westfield, N. J. Gas-holder	619,510	Feb. 14	1311	310	86	1086
Sergeant, Henry C., Westfield, N. J., assignor to Ingersoll-Sergeant Drill Company, New York, N. Y. Coal-cutting engine	631,591	Aug. 22	3471	784, 785	88	1459
Sergeant, Walter, El Paso, Tex. Apparatus for catching waste products from lead, silver, or other smelters	626,569	June 6	631	146	87	1737
Serpollet, Leon, Paris, France, assignor to La Société des Générateurs à Vaporisation Instantanée, (Système Leon Serpollet,) of France. Fluid-pressure engine	636,926	Nov. 14	1348	238	89	1219
Sertell, Joseph. (See Ball, Charles E., assignor.)						
Sessions, Henry H., Chicago, Ill. Car construction	634,218	Oct. 3	440	113, 114	89	92
Sessions, Henry H., Chicago, Ill. Draw-bar-attaching means	634,219	Oct. 3	442	114	89	92
Sessler, Arnold, New York, N. Y. Sole	622,825	Apr. 11	1151	265	87	237
Settan, Frederick W., New York, N. Y. Fireproof floor construction	620,187	Feb. 28	2555	579	86	1361
Seubert, George. (See Zielke, Fred, assignor.)						
Seubert, Louis H., St. Louis, Mo. Antifriction-bearing	621,376	Mar. 21	1558	346	86	1889
Severance, Asa F., Noblesborough, Me. Butter-worker	631,337	Aug. 22	2995	679	88	1361
Severance, Asahel J., Denver, Colo. Dredge	623,111	Apr. 11	1690	390	87	242
Severance, William N., assignor of thirty-three fiftieths to J. J. Bryant and O. Owen, Chicago, Ill. Nail-cutting machine	626,774	June 13	1018	230, 231	87	1830
Severin, Conrad G., Motala, Verkstad, assignor to G. G. Georgii, Sundsvall, Sweden. Labeling apparatus	620,981	Mar. 14	840	184	86	1676
Severy, Melvin L., Boston, assignor of nine-twentieths to F. Doane, Norwood, Mass. Thermochemical electric battery	620,855	Mar. 7	592	128, 129	86	1619
Severy, Melvin L., Arlington, and G. S. Heath, Revere, Mass. Wire fabric	622,279	Apr. 4	139	32	87	30
Sevey, William S. E. (See Turnbull, Walter J., assignor.)						
Sevier, Robert J., Savannah, Tenn. Combined corn and cotton scraper, chopper, and cultivator	626,103	May 30	3996	911	87	1550
Sévigné Bread Wrapper Company. (See Sévigné, Henri A., assignor.)						
Sévigné, Henri A., assignor to Sévigné Bread Wrapper Company, Boston, Mass. Preserving bread	628,859	July 11	1708	399	88	353
Sewall, Charles H., Chicago, Ill. Conduit for electrical conductors	627,784	June 27	2920	639	87	2241
Sewall, Charles H., Chicago, and H. E. Procunier, Oak Park, Ill. Terminal head for electrical conductors	623,570	Apr. 25	2534	582	87	544
Sewall, Samuel, Tewksbury, assignor to Sewall Steel Heddle Company, Lowell, Mass. Warp-stop-motion mechanism for looms	637,675	Nov. 21	3150	652, 653	89	1627
Sewall Steel Heddle Company. (See Sewall, Samuel, assignor.)						
Seward, Edward A., and J. J. Joines, Columbus, Ga. Mechanical motor	621,858	Mar. 28	2451	547	86	2017
Seward, Edward C. (See Hacherelle, Louis E., assignor.)						
Seward, William, New York, N. Y. Automatic weighing-machine	632,284	Sept. 5	148	34	88	1736
Sewell, Julius L., *et al.* (See Alexander, Henry C., assignor.)						
Sewell, Van Delure, Jacksonville, Fla. Driving mechanism	621,160	Mar. 14	1172	255	86	1741
Sewell, William H., Port Stewart, Ireland. Pneumatic tire for cycles	620,507	Feb. 28	3084	705	86	1464
Sexton, Earl, Pemberton, N. J. Automatic grain-measuring attachment	637,293	Nov. 21	2065	442	89	1372
Sexton, H. C., *et al.* (See Buckingham, Albert E., assignor.)						
Sexton, Harry. (See Silkman and Sexton.)						
Seybold, Charles, Dayton, Ohio. Paper-trimming machine	627,598	June 27	2597	572, 573	87	2176
Seybold, Charles, Dayton, Ohio. Clamp-coupling device for automatic paper-cutters	627,599	June 27	2599	573	87	2177
Seybold, Charles, Dayton, Ohio. Paper-trimming machine	627,600	June 27	2602	573	87	2177
Seybold, Charles, Dayton, Ohio. Die-press	633,295	Sept. 19	2067	484	88	2140
Seyd, Otto, New York, N. Y. Dry-goods tag	626,249	June 6	56	13	87	1625
Seymour, Albert P., Syracuse, N. Y. Electrical cut-out	617,608	Jan. 10	1422	324	86	295
Seymour, Albert P., Syracuse, N. Y. Electrical rosette	624,386	May 2	807	181	87	855
Seymour, Albert P., Syracuse, N. Y. Electrical attachment-plug	625,473	May 23	2757	628	87	1217
Seymour, Burton W. (See Sprague and Seymour.)						
Seymour, Charles, assignor to Defiance Machine Works, Defiance, Ohio. Bending-machine	617,195	Jan. 3	635	148	86	124
Seymour, Charles, assignor to Defiance Machine Works, Defiance, Ohio. Shaping-machine	619,092	Feb. 7	557	118	86	919
Seymour, Charles, assignor to Defiance Machine Works, Defiance, Ohio. Shaping-machine	621,621	Mar. 21	1990	444	86	1911
Seymour, Elisha, Chicago, Ill. Rotary engine	622,718	Apr. 11	967	224, 225	87	203
Seymour, George E., and F. Kahler, Silver Grove, Ind. Extension-platform	635,401	Oct. 24	2649	611, 612	89	572
Seymour, James A., Auburn, N. Y. Valve-gear	628,121	July 4	307	73	88	61
Seymour, James M., Jr., Newark, N. J. Rotary impact or turbine steam-engine	621,586	Mar. 21	1930	432	86	1900
Seymour, James M., Jr., Newark, N. J. Water-cooling tower	621,718	Mar. 21	2177	489	86	1950
Seymour, Jay C., Ashton, S. D. Thill-coupling	620,188	Feb. 28	2556	580	86	1361
Seymour, John, Brampton, Canada. Valve for gas-meters	637,424	Nov. 21	2319	500	89	1425
Seymour, Lucien, assignor to Geneva Cycle Company, Geneva, Ohio. Crank-fastening	627,601	June 27	2603	573	87	2177
Seymour & Peck Company. (See Peck, Franklin G., assignor.)						
Seymour, Ralph C., New York, N. Y., assignor to C. B. Cottrell & Sons Company, New York, N. Y., Jersey City, N. J., and Stonington, Conn. Folding-machine	629,928	Aug. 1	350	77, 78	88	790
Seymour, William S., Philadelphia, Pa. Fastener	621,859	Mar. 28	2454	547	86	2018
Shackelford, William A., assignor of one-half to J. N. Nix and C. R. Carter, Carrollton, Ga. Combination-plow	622,719	Apr. 11	970	225, 226	87	204
Shackleton, Alfred, Chicago, Ill. Non-refillable vessel	630,992	Aug. 15	2362	538	88	1221
Shadbolt, William O., New York, N. Y. Wagon	620,189	Feb. 28	2557	580	86	1362
Shadinger, William, Philadelphia, Pa. Collapsible crate	619,093	Feb. 7	558	118	86	919
Shaefer, Fred, Atlanta, Ga. Flash-light pan	638,889	Dec. 12	1305	297	89	2141
Shafer, C. W. (See Williams, Charles R., assignor.)						
Shafer, Charles T., Springfield, Ohio, assignor of two-thirds to W. Scheffel, Williamsport, Pa. Suspender cast-off	619,001	Feb. 7	399	83	86	887
Shafer, Jacob P., Terra Alta, W. Va. Car and pipe coupling	638,403	Dec. 5	414	87	89	1945

Alphabetical list of patentees—Continued.

Name, residence, and invention.	No.	Date.	Monthly volume.		Official Gazette.	
			Spec.	Dr'g.	Vol.	Page.
Shafer, William G., Peru, Ind. Animal-releasing device	619,798	Feb. 21	1864	425	86	1217
Shaffer, Charles H., Muskegon, Mich., assignor of one-half to G. W. Shaffer, Clark's Hill, Ind. Apparatus for filling annealing-pots	627,944	June 27	3216	704, 705	87	2302
Shaffer, George W. (See Shaffer, Charles H., assignor.)						
Shaffer, Henry E., Rochester, N. Y. Burner for acetylene gas	617,942	Jan. 17	2067	464	86	443
Shaffer, Henry E., Rochester, N. Y. Acetylene-gas burner	618,239	Jan. 24	2649	585	86	565
Shaffer, Henry E., Rochester, N. Y. Acetylene-gas burner	622,867	Apr. 11	1230	286	87	252
Shaffer, Henry E., Rochester, N. Y. Acetylene-gas burner	623,043	Apr. 11	1542	356	87	315
Shaffer, Henry E., Rochester, N. Y. Acetylene-gas burner	634,838	Oct. 10	1585	372	89	332
Shaffer, Paul C., *et al.* (See Coons, James, assignor.)						
Shaffer, Paul C., New York, N. Y. Gas or liquid vending machine	622,826	Apr. 11	1153	266	87	237
Shaffer, Philip K., assignor of one-half to S. S. Carnahan, Redlands, Cal. Non-clogging water-gate	629,725	July 25	3291	768	88	695
Shaffer, William J., assignor of one-sixth to G. W. Massey, Ennis, Tex. Convertible ice-cream freezer and churn	620,615	Mar. 7	121	25	86	1526
Shaffner, William H., Louisiana, Mo. Compressed-air water-elevator	639,622	Dec. 19	2641	606	89	2420
Shailer, George W., Wellington, New Zealand. Device for attaching feathers to hats	621,770	Mar. 21	2289	514	86	1970
Shailer, George W., London, England. Cultivating-tool	631,728	Aug. 22	3719	834	88	1506
Shakespeare, George O., Philadelphia, Pa. Holder for medicine-cups	618,210	Jan. 24	2593	573	86	555
Shakespeare, George O., Philadelphia, Pa. Holder for medicinal inhalers	618,211	Jan. 24	2594	573	86	555
Shakespeare, William, Birmingham, England. Cycle-railway	639,778	Dec. 26	2950	679	89	2500
Shaler, Clarence A., Waupun, Wis. Detachable umbrella-cover	630,415	Aug. 8	1329	298	88	996
Shallenberger, Jesse Y., Strasburg, Ill. Fire-escape	630,993	Aug. 15	2363	538	88	1221
Shanahan, Stephen, Charleston, W. Va. Pipe-clamp	627,537	June 27	2470	544	87	2050
Shank, John H. (See Koontz and Shank.)						
Shank, John P., Meridian, Miss. Lady's sewing-cabinet	628,361	July 4	774	180	88	149
Shanklin, Philip A., assignor of one-half to G. H. Rice, Sandoval, Ill. Bicycle-support	639,945	Dec. 26	2239	742, 743	89	2557
Shanks, David W., assignor to A. Schenck, San Antonio, Tex. Follower for barrels	631,676	Aug. 23	3607	814	88	1486
Shanks, Jacob C., Denver, Colo. Guard-finger	623,112	Apr. 11	1694	391	87	343
Shann, Montague H. C. and R. E. C., Shoreham, England. Means for propelling vessels	621,719	Mar. 21	2180	489, 490	86	1950
Shann, Richard E. C. (See Shann, Montague H. C. and R. E. C.)						
Shannon, Charles H., assignor to Tyler Hinged Last Company, Brockton, Mass. Hinge	619,356	Feb. 14	1043	234	86	1033
Shannon, John, Buffalo, N. Y. Telephone-call register	635,195	Oct. 17	2249	524	89	479
Shannon, John B., *et al.* (See Jones, Samuel H., assignor.)						
Shannon, John J. (See Shook, Barton, Shannon, Dunn, and Ramsay.)						
Shannon, William H. (See Cook and Shannon.)						
Shannon, William J. (See Ward, Daniel, assignor.)						
Shantz, Dilman B., Berlin, Canada. Lathe for turning buttons. (Reissue)	11,766	Aug. 23	3796	845	88	1516
Shantz, Dilman B., Berlin, Canada. Machine for cutting circular disks for buttons or the like	631,677	Aug. 23	3608	814, 815	88	1486
Shantz, Dilman B., Berlin, Canada. Machine for boring holes in buttons	639,909	Dec. 26	3171	731	89	2542
Shantz, Dilman B., Berlin, Canada. Machine for turning buttons, &c.	639,910	Dec. 26	3177	731, 732	89	2544
Shantz, Moses E. (See Henderson, Charles L., assignor.)						
Shappell, Abraham, Pottsville, Pa. Horse-boot	625,810	May 30	3381	767	87	1437
Sharaf, Ralph M., Boston, Mass. Tie former and fastener	631,094	Aug. 15	2561	579	88	1259
Sharer, George W., Philadelphia, Pa. Drying-kiln	634,916	Oct. 17	1724	407, 408, 409	89	375
Sharf, George R., Sidell, Ill. Display-form	639,779	Dec. 26	2951	679	89	2500
Sharkey, Patrick, Trafalgar, Ind. Axle	617,659	Jan. 10	1513	343	86	314
Sharp, Charles S., assignor to D. M. Osborne & Company, Auburn, N. Y. Corn-harvester	624,878	May 9	1707	386, 387	87	1055
Sharp, Henry J. (See Jordan, William W., assignor.)						
Sharp, John C., Delavan, Wis. Stump-extracting device	619,511	Feb. 14	1313	301	86	1087
Sharp, Matthew T., London, England. Roller-blind	618,441	Jan. 31	3040	672	86	654
Sharp, Morris T., Mount Vernon, Ohio. Tablet	635,515	Oct. 24	2886	659	89	617
Sharp, Samuel H., Leeds, England. Stencil-printing machine	636,071	Oct. 31	3978	909, 910	89	844
Sharp, Thomas B., and F. Billing, Birmingham, England. Apparatus for manufacturing steel or other metal tubes	639,299	Dec. 19	2044	470	89	2300
Sharpe, James F., Toronto, Canada. Boot or shoe	630,570	Aug. 8	1622	362	88	1052
Sharpe, John, Gravenhurst, Canada. Turbine water-wheel	624,692	May 9	1362	304, 305	87	987
Sharpe, John, assignor to Capital Cash Register Company, Ottawa, Canada. Cash-register	638,286	Dec. 5	187	40	89	1903
Sharpe, Joseph K., Jr., assignor to Pneumatic Elevator and Weigher Company, Indianapolis, Ind. Vent device for pneumatic elevators	619,844	Feb. 21	1942	441	86	1233
Sharpe, Joseph K., Jr., assignor to Indiana Manufacturing Company, Indianapolis, Ind. Pneumatic straw-stacker	639,448	Dec. 19	2334	539	89	2358
Sharpe, William H., Sharpes, Fla. Cultivating-tool	629,475	July 25	2336	658	88	608
Sharples, David T., Elgin, Ill. Centrifugal cream-separator	620,722	Mar. 7	338	69	86	1567
Sharples, David T., Elgin, Ill. Speed-indicator	620,723	Mar. 7	339	70	86	1567
Sharples, David T., West Chester, Pa. Combined churn and butter-worker	638,363	Dec. 5	346	73	89	1932
Sharpneck, Eliel L., *et al.* (See Sharpneck, Frank A., assignor.)						
Sharpneck, Eliel L., Chicago, Ill., assignor to Ideal Refrigerating and Manufacturing Company, Colorado Springs, Colo. Compressor for ice-machines	636,459	Nov. 7	383	85, 86	89	998
Sharpneck, Frank A., assignor of two-thirds to E. L. Sharpneck, Chicago, Ill., and G. P. Smith, New York, N. Y. Antifriction-bearing	620,190	Feb. 28	2558	580	86	1362
Sharpneck, William S., assignor of two-thirds to J. D. Ross and E. W. Brooks, Chicago, Ill. Gas-engine	628,122	July 4	309	73	88	C2
Sharpneck, William S., assignor of two-thirds to J. D. Ross and E. W. Brooks, Chicago, Ill. Gas-engine	628,123	July 4	311	73, 74	88	C2
Sharpneck, William S., assignor of two-thirds to E. W. Brooks and J. D. Ross, Chicago, Ill. Gas-engine	628,124	July 4	312	74	88	63
Sharpneck, William S., assignor of two-thirds to J. D. Ross and E. W. Brooks, Chicago, Ill. Gas-engine	628,125	July 4	314	74, 75	88	63
Sharrer, Harry F., Baltimore, Md. Railway mail receiving and delivering apparatus	632,504	Sept. 5	530	122	88	1812
Sharrock, Alford N., Ardmore, Ind. Ter. Fence-post	631,131	Aug. 15	2620	593	88	1271
Shattuck, Albert R. (See Fischer, Alexander, assignor.)						
Shattuck, Albert R., New York, N. Y. Valve	625,360	May 23	2571	585	87	1261
Shattuck, Charles H. (See Rowlands, John R., assignor.)						
Shattuck, William P., Minneapolis, Minn. Syringe	619,845	Feb. 21	1944	442	86	1233
Shauck, Arthur M., Galion, Ohio. Venting-faucet	639,103	Dec. 12	1680	388	89	2214

Alphabetical list of patentees—Continued.

Name, residence, and invention.	No.	Date.	Monthly volume.		Official Gazette.	
			Spec.	Dr'g.	Vol.	Page.
Shauer, Louis S., Chicago, Ill. Trousers	623,631	Apr. 25	2637	602	87	562
Shaughness, Thomas V. (See Chester, George W., assignor.)						
Shaver, O. P., *et al.* (See Welch and Dickey, assignors.)						
Shaw, A. E., *et al.* (See Rohlin, John, assignor.)						
Shaw, Ai B., Medford, Mass., assignor to United States Automatic Gas Lighting Company, Auburn, Me. Time gas lighting or extinguishing mechanism	634,856	Oct. 10	1623	380	89	338
Shaw, Ai B., Medford, Mass., assignor, by mesne assignments, to Morgan & Wright, Chicago, Ill. Pneumatic tire	639,104	Dec. 12	1680	388	89	2214
Shaw, Alexander, Jersey City, N. J. Metallic packing	636,008	Oct. 31	3829	880	89	814
Shaw, Alexander B., Chicago, Ill. Fire-extinguisher	621,622	Mar. 21	1992	444	86	1912
Shaw, Alfred M., Carver, Mass. Bottle	621,161	Mar. 14	1173	255	86	1741
Shaw, Alton J., assignor to Shaw Electric Crane Company, Muskegon, Mich. Hoisting machinery	622,280	Apr. 4	140	32, 33, 34	87	30
Shaw, Archibald W., and C. E. Wilson, Jackson, Mich. Indexical card-list	632,758	Sept. 12	1044	242, 243	88	1928
Shaw, Campbell B., Kirkwood, Mo. Automatic sprinkler for fire-extinguishers. (Reissue)	11,744	May 30	4212	957	87	1592
Shaw, Charles H. (See Waugh, Daniel S., assignor.)						
Shaw, Charles H., New York, N. Y. Panoramic camera	624,553	May 9	1119	252	87	939
Shaw, Charles M., Leadville, Colo. Support for ironing-boards	633,393	Sept. 19	2270	534	88	2179
Shaw, Charles W., assignor of one-half to J. L. Van Thuyne, Philadelphia, Pa. Towing-indicator	636,699	Nov. 7	847	189	89	1094
Shaw, Edgar, Swampscott, Mass. Boot-cleaner	622,024	Mar. 28	2773	626	86	2079
Shaw, Edgar, Swampscott, Mass. Boot-cleaner	633,737	Sept. 26	2900	673	88	2316
Shaw, Edgar, Swampscott, assignor of one-half to T. P. Smith, Brookline, Mass. Check-book balance-slip	624,257	May 2	574	123	87	809
Shaw, Edmund D. (See Case and Shaw.)						
Shaw Electric Crane Company. (See Shaw, Alton J., assignor.)						
Shaw, Francis R., Chatham Centre, Ohio. Oil-well derrick	618,297	Jan. 24	2746	609	86	585
Shaw, George F. (See Shaw, Henry F. and G. F.)						
Shaw, George W. (See Gratz and Shaw.)						
Shaw, Henrietta C., Kansas City, Mo. Utility pin-ring	626,797	June 13	1064	239	87	1839
Shaw, Henry C. (See Lentz and Shaw.)						
Shaw, Henry C. (See Wilbur, Alphonso V., assignor.)						
Shaw, Henry C., Pittsburg, Pa., assignor to McKenna Steel Working Company, Milwaukee, Wis. Roll and transfer table	620,982	Mar. 14	842	184	86	1677
Shaw, Henry F., Boston, Mass. Flexible shaft-coupling	628,126	July 4	315	75	88	63
Shaw, Henry F., Boston, and G. F. Shaw, Dedham, assignors of one-fourth to H. L. Ayer, Boston, Mass. Car-wheel	634,036	Oct. 3	94	24	89	23
Shaw, Henry W., assignor of two-thirds to F. P. Cleveland and C. W. Cadwell, Detroit, Mich. Acetylene-gas generator	636,857	Nov. 14	1182	256	89	1188
Shaw, John F. (See Shaw, Robert H. and J. F.)						
Shaw, John H., assignor to Sargent & Company, New Haven, Conn. Meat-cutter	623,839	Apr. 25	3037	698	87	640
Shaw, Milton E., Kittanning, Pa. Saw-setting device	638,287	Dec. 5	195	41	89	1903
Shaw, Noah, Eau Claire, Wis. Sawmill-carriage	624,554	May 9	1122	252, 253	87	940
Shaw, Noah, Eau Claire, Wis. Molding apparatus	627,538	June 27	2471	544	87	2151
Shaw, Noah, Eau Claire, Wis. Sawmill-carriage	627,539	June 27	2475	544, 545	87	2152
Shaw, Noah, Eau Claire, Wis. Friction-clutch	627,627	June 27	2655	583	87	2188
Shaw, Peter, New York, N. Y. Glass-worker's tool	634,276	Oct. 3	578	143	89	115
Shaw, Robert H. and J. F., Newton Heath, England. Game played with mechanical figures	637,676	Nov. 21	3155	654	89	1628
Shaw, Sumner, Boston, Mass. Lock	617,361	Jan. 10	958	220	86	206
Shaw, Thomas, Victoria, Canada. Pressure-door	622,546	Apr. 4	653	154	87	124
Shaw, Wilber S., Dallas, Tex. Cover or closure for jars	628,613	July 11	1230	287	88	258
Shaw, William E., San Francisco, Cal. Horseshoe	628,590	July 11	1201	281	88	251
Shaw, William J., St. Louis, Mo. Refrigerator-car	634,702	Oct. 10	1346	318, 319	89	285
Shaw, William J., St. Louis, Mo. Tension-equalizing device	634,703	Oct. 10	1349	319	89	286
Shaw, William T. (See Hearson and Shaw.)						
Shawcross, Henry J., Liverpool, England. Vehicle-wheel	619,846	Feb. 21	1946	442	86	1234
Shea, Christopher A., Milton, and J. J. O'Lalor, Medford, Mass. Electrically-connected printing-machine	623,293	Apr. 18	2031	467	87	426
Shea, John F. (See Richards, Henry J., assignor.)						
Shearer, Benson H., and W. O. Lewis, West Clarksville, N. Y. Egg-preserving crate	621,162	Mar. 14	1174	255	86	1741
Shearer, Edward B., assignor of one-half to J. A. Barnett, Van Vleet, Miss. Bicycle-support	635,873	Oct. 31	3563	820	89	762
Shearer, John A., Langley, Canada. Folding tub or similar vessel	618,442	Jan. 31	3041	672	86	654
Shearman, Henry C., Providence, R. I. Elastic cap or cover for bottles, jars, or other vessels	639,832	Dec. 26	3043	700	89	2518
Shearson, William H., *et al.* (See Hoxie, George L., assignor.)						
Shedd, Hugh E., Red Wing, Minn., assignor, by mesne assignments, to L. J. Elliott, R. T. Robinson, O. L. Parmenter, and A. C. Mickelson, Racine, Wis. Cigar-pocket	633,394	Sept. 19	2271	535	88	2180
Shedenhelm, Robert, Ladora, Iowa. Safety-pin	624,387	May 2	808	181	87	855
Shedlock, Alfred. (See Dewes and Shedlock.)						
Shedlock, Alfred, Jersey City, N. J., and J. A. Hudson, Tarrytown, N. Y. Sprinkling apparatus	622,547	Apr. 4	655	154	87	124
Shedlock, Alfred, Jersey City, N. J., and J. A. Hudson, assignors to I. B. Kleinert Rubber Company, New York, N. Y. Machine for making articles of flexible material	628,728	July 11	1471	341, 342	88	307
Shedlock, Alfred, Jersey City, N. J., and J. A. Hudson, assignors to I. B. Kleinert Rubber Company, New York, N. Y. Apparatus for setting or curing flexible material or articles formed therefrom	628,729	July 11	1475	342	88	308
Shedlock, James J., assignor to Mudros Syndicate, Limited, London, England. Extracting metals from their ores and apparatus therefor	619,094	Feb. 7	559	118, 119, 120	86	920
Sheedy, Patrick, and T. Carrick, Los Angeles, Cal. Hydrocarbon-burner	621,431	Mar. 21	1642	364	86	1845
Sheehan, Jeremiah M. (See Sapper, Charles H., assignor.)						
Sheehy, James J., *et al.* (See Lynch, Michael A., assignor.)						
Sheeley, Mary, *et al.* (See Sheeley, William H., assignor.)						
Sheeley, William H., assignor to M. Sheeley and C. Muller, New York, N. Y. Clamp	628,860	July 11	1709	399	88	353
Sheen, Daniel R., Peoria, Ill. Automatic stock-fountain	625,361	May 23	2572	586	87	1261
Sheen, Daniel R., Peoria, Ill. Oscillating propeller	625,362	May 23	2573	586	87	1262
Sheer, George D., Cleveland, Ohio. Iron fence	618,741	Jan. 31	3566	796	86	756
Sheer, Henry M. (See Sheer, Walter B., assignor.)						
Sheer, Henry M., Quincy, Ill. Box-fastener	638,648	Dec. 5	865	188	89	2033

Alphabetical list of patentees—Continued.

Name, residence, and invention.	No.	Date.	Monthly volume. Spec.	Monthly volume. Dr'g.	Official Gazette. Vol.	Official Gazette. Page.
Sheer, Henry M., assignor of one-half to J. C. Dussair, Quincy, Ill. Hame-fastener	622,084	Mar. 28	2863	645	86	2097
Sheer, Henry M. and W. B., Quincy, Ill. I cubator	619,095	Feb. 7	563	120	86	921
Sheer, Walter B. (See Sheer, Henry M. and W. B.)						
Sheer, Walter B., assignor to H. M. Sheer, Quincy, Ill. Holdback-lock	623,045	Apr. 11	1544	357	87	315
Sheets, George W., Bixby, S. Dak. Key-ring	629,213	July 18	2350	545	88	493
Sheffield, Benjamin D., Livingston, Mont. Photographic camera	624,693	May 9	1363	305	87	987
Sheffield Car Company. (See Henderson, James, assignor.)						
Shelburne, Augustine, New London, Mo. Valve mechanism	629,822	Aug. 1	112	27	88	742
Shelby Electric Company. (See Chaillet, Adolphe A., assignor.)						
Shelby Steel Tube Company. (See Stiefel, Ralph C., assignor.)						
Shelby Steel Tube Company. (See Stiefel and Trethewey, assignors.)						
Sheldon, Edward E., and J. T. Freeman, Rochester, N. Y. Section-liner	618,742	Jan. 31	3567	796	86	757
Sheldon, Edward P., assignor to R. Hoe, T. H. Mead, and C. W. Carpenter, New York, N. Y. Cutting, folding, and pasting machine	630,937	Aug. 15	2251	513, 514, 515	88	1200
Sheldon, Edward P., assignor to F. E. Munn, New York, N. Y. Machine for wiring blanks	635,356	Oct. 24	2535	589, 590, 591, 592, 598	89	549
Sheldon, Frank, and H. M. Milliken, Cheboygan, Mich. Car-coupling	621,163	Mar. 14	1176	255	86	1742
Sheldon, Herbert F., Melrose, assignor of one-half to E. de Anguera, Wakefield, Mass. Bicycle driving-gear	627,811	June 27	2971	650	87	2250
Sheldon, Hudson, and S. A. Lockwood, Milan, Ohio. Auger-pointed fence-post	624,987	May 16	1903	427	87	1110
Sheldon, Irving L., Fall River, Mass. Paper-box machine	639,449	Dec. 19	2335	539, 540	89	2358
Sheldon, Willard C., Grand Haven, Mich. Seed-planter	624,694	May 9	1367	305	87	988
Sheldrick, David J., Columbus, Ohio. Drive-chain	633,733	Sept. 26	2901	674	88	2316
Sheldrick, David J., assignor to J. A. Jeffrey, Columbus, Ohio. Conveyer	620,371	Feb. 28	2870	657	86	1423
Shellaberger, Edward F. (See Warner, Charles E., assignor.)						
Shellaberger, Edward F., De Kalb, Ill. Machine for making wire fabric	623,840	Apr. 25	3039	699	87	640
Shellaberger, Edward F., De Kalb, Ill. Wire fence	623,841	Apr. 25	3042	699	87	640
Shellaberger, Edward F., De Kalb, Ill. Wire-fabric machine	633,370	Sept. 19	2218	521, 522, 523	88	2170
Shellenberger, Samuel L., South McAlester, Ind. Ter. Electric fan	623,433	Apr. 18	2280	522	87	476
Shelley, Daniel W., Williamsville, Ill. Chimney-flue thimble	627,674	June 27	2732	599	87	2203
Shelley, George, Wilkes-Barré, Pa. Machine for tapping water or gas mains	622,399	Apr. 4	338	78	87	63
Shelton, James K. P., Cuba, Ala. Woodworking-machine	627,147	June 20	1720	377, 378	87	1985
Shelton, John, assignor of one-half to E. P. Becker, St. Louis, Mo. Car-brake	638,526	Dec. 5	647	134	89	1989
Shelton, John, assignor of one-half to E. P. Becker, St. Louis, Mo. Air-brake	638,527	Dec. 5	649	134, 135	89	1990
Shelton, William J., Columbia, Tex. Hunting-knife	632,590	Sept. 5	693	160	88	1843
Shepard, Charles D., Peekskill, N. Y. Combined gas and fuel stove	617,362	Jan. 10	960	220	86	206
Shepard, Charles H., New York, assignor to Wyckoff, Seamans & Benedict, Ilion, N. Y. Type-writing machine	617,056	Jan. 3	386	94	86	75
Shepard, Charles H., New York, assignor to Wyckoff, Seamans & Benedict, Ilion, N. Y. Type-writing machine	626,775	June 13	1030	232	87	1833
Shepard, Charles H., New York, assignor to Wyckoff, Seamans & Benedict, Ilion, N. Y. Type-writing machine	626,776	June 13	1032	232	87	1833
Shepard, Charles H., New York, assignor to Wyckoff, Seamans & Benedict, Ilion, N. Y. Type-writing machine	635,981	Oct. 31	3774	870	89	803
Shepard, Charles H., New York, assignor to Wyckoff, Seamans & Benedict, Ilion, N. Y. Type-writing machine	639,300	Dec. 19	2045	470	89	2300
Shepard, Charles S., Cherry Creek, N. Y. Spraying device	627,146	June 20	1719	377	87	1985
Shepard, Elisha H., Boyne City, Mich. Neck-yoke	627,275	June 20	1951	429	87	2032
Shepard, Frank E. (See Cammett and Shepard.)						
Shepard, Homer E., assignor of one-third to J. E. Renner, Rochester, N. Y. Driving mechanism for cycles	622,085	Mar. 28	2864	645	86	2097
Shepard, James H., Dallas, Tex. Riveting-machine	638,815	Dec. 12	1179	264	89	2116
Shepard, Webster G., Bradford, Pa. Machine for bending wood	636,072	Oct. 31	3982	911, 912	89	845
Shepherd, Alfred and A. A., Birmingham, England. Puzzle	629,527	July 25	2948	686	88	630
Shepherd, Alfred A. (See Shepherd, Alfred and A. A.)						
Shepherd, David. (See Walsh and Shepherd.)						
Shepherd, George B., Grayson, Ky. Clothes-rack	619,050	Feb. 7	480	100	86	903
Shepherd, George B., Grayson, Ky. Press	626,727	June 13	933	212	87	1813
Shepherd, George H., Paris, France. Attachment hook for elastic or extensible cords, &c.	631,678	Aug. 22	3615	815	88	1488
Shepherd, Gilbert C., New York, N. Y. Account-book	620,508	Feb. 28	3085	705	86	1464
Shepherd, Gilbert C., New York, N. Y. Ledger-sheet for detachable binders	631,863	Aug. 29	3959	885	88	1564
Shepherd, Harry, and D. Delaria, Minneapolis, Minn. Hose-coupling for air-brakes	635,402	Oct. 24	2650	612	89	572
Sheppard, Auley S., South Burgettstown, Pa. Developing-tray	633,912	Sept. 26	3192	743	88	2376
Sheppard, George. (See Underwood, Chester J., assignor.)						
Sheppard, George W., Tallapoosa, Ga. Placer-mining dredge	621,377	Mar. 21	1560	346	86	1829
Sheppard, Howard R., Philadelphia, Pa. Water-heating apparatus for ranges	631,184	Aug. 15	2705	611	88	1288
Sheppard, James, and F. Dashwood, London, England. Brick, tile, &c., and construction of walls, &c	626,307	June 6	162	39	87	1644
Sheppard, Joseph H., Pelahatchee, Miss. Corn and cotton planter	628,362	July 4	775	180	88	149
Sheppard, Joseph W., New York, N. Y. Fireproof window	621,542	Mar. 21	1864	413	86	1886
Sheridan, James, Mars, Pa. Pumping apparatus for oil-wells	625,424	May 23	2679	610	87	1282
Sheridan, James, Lawrence, Mass. Combination-chair	628,166	July 4	389	92	88	79
Sheridan, James H. (See Palmer and Sheridan.)						
Sherman, Daniel F., Newcastle, Cal. Box or package	627,276	June 20	1952	430	87	2032
Sherman, Frank C. (See Williams, Warren C., assignor)						
Sherman, Frank I., assignor to Lawton-Sherman Company, Providence, R. I. Button	628,214	July 4	473	113	88	94
Sherman, George H. and P. J., Detroit, Mich. Hydrocarbon-burner	618,139	Jan. 24	2457	548	86	531
Sherman, George H. and P. J., Detroit, Mich. Hydrocarbon-burner	620,678	Mar. 7	249	51	86	1550
Sherman, Henry A., Fremont, Ohio. Tension device for shears	619,999	Feb. 21	2203	501	86	1281
Sherman, James A. (See Flynn and Sherman.)						
Sherman, Jesse H., Denver, Colo. Combined collar-button and necktie-fastener	624,108	May 2	297	62	87	758
Sherman, John S., Lowell, Kans. Railway-tie	633,250	Sept. 19	1986	466	88	2125
Sherman, Lewis P., assignor to R. H. Ingersoll, Biddeford, Me. Card-grinder	625,706	May 23	3159	717	87	1376
Sherman, Peter J. (See Sherman, George H. and P. J.)						
Sherman, Richard E., assignor to Challenge Machinery Company, Chicago, Ill. Handle-bar for velocipedes	638,427	Dec. 5	464	95	89	1955

Alphabetical list of patentees—Continued.

Name, residence, and invention.	No.	Date.	Monthly volume. Spec.	Monthly volume. Dr'g.	Official Gazette. Vol.	Official Gazette. Page.
Sherman, Walter N., Merced, Cal. Electric cane	639,690	Dec. 19	2779	641	89	2448
Sherman, Wesley B., Sioux City, Iowa. Axle-cutter	622,548	Apr. 4	661	154	87	126
Sherman, William T. (See Downes and Sherman.)						
Sherrer, Philip. (See Schmidt and Sherrer.)						
Sherrill, Frank M., Industry, Kans. Weed-cutter and cultivator	629,015	July 18	1994	464	88	425
Sherrin, John V., London, England. Acetylene-gas generator	622,549	Apr. 4	662	155	87	126
Sherrod, William H., Castell, Tex. Plow	623,044	Apr. 11	1543	357	87	315
Sherwin, Frank E. (See Sherwin, Willard W., assignor.)						
Sherwin, George D., Burlington, Vt. Canopy for gas pipe or tubing	631,185	Aug. 15	2706	612	88	1288
Sherwin, Willard W., Golden City, assignor to F. E. Sherwin, Kansas City, Mo. Corner-brace	637,217	Nov. 14	1920	411	89	1329
Sherwood, George R., Kearney, Nebr. Machine for pithing stalks	627,882	June 27	3102	678, 679, 680	87	2275
Sherwood, George R.. Kearney, Nebr. Machine for removing pith from cornstalks	631,186	Aug. 15	2707	612, 613	88	1289
Sherwood, Marc. (See Beard, Charles M., assignor.)						
Sherwood, Marvin W., Stamford, Conn. Cash-car	623,632	Apr. 25	2639	602	87	562
Shettleworth, Frederick W., assignor of one-half to E. I. Bell, Portland, Conn. Saw for sawing stone	618,524	Jan. 31	3188	704	86	683
Shettleworth, Frederick W., assignor to Patent Diamond Gang Saw Company, Portland, Conn. Stone-sawing machine	632,000	Aug. 29	4200	945, 946	88	1609
Shevill, George R., assignor to M. E. Shevill, New York, N. Y. Textile	623,842	Apr. 25	3043	700	87	640
Shevill, Mary E. (See Shevill, George R., assignor.)						
Shevlin, George F. (See Baker, Shevlin, and Baker.)						
Shewring, Frederick J., Toronto, Canada. Trolley connection for canal-boats	618,911	Feb. 7	160	34, 35	86	837
Shick, William H., assignor to Reading Stove Works, Orr, Painter & Co., Reading, Pa. Heater	631,755	Aug. 22	3760	843	88	1513
Shickle, Harrison & Howard Iron Company. (See Gallagher, Thomas M.. assignor.)						
Shields, Alexander G., L'Anse, Mich. Bicycle-rest	633,046	Sept. 12	1565	364	88	2030
Shields, David, Erie, Pa. assignor to Detwiller & Street Fireworks Manufacturing Company, of New York. Toy pistol	635,062	Oct. 17	1988	470	89	428
Shields, George W., assignor of one-fifth to R. M. and R. M. Kelly, Jr., Louisville, Ky. Steam-generator	634,277	Oct. 3	580	143	89	115
Shields, Orlando D. (See Brown, Frank C., assignor.)						
Shields, Orlando D., Loveland, Colo. Portable expansion ditch-check	639,301	Dec. 19	2046	470	89	2301
Shiels, Alexander, Glasgow, Scotland. Milking apparatus	619,442	Feb. 14	1199	272	86	1062
Shimer, Allen C. and J. Q., Anderson, Ind. Wireworking-machine	630,008	Aug. 1	525	115, 116, 117	88	827
Shimer, Elmer S. (See Shimer, Samuel J. and E. S.)						
Shimer, Elmer S., Milton, Pa. Type-writing machine	626,104	May 30	3997	911	87	1550
Shimer, Elmer S., Milton, Pa. Type-writer	626,936	June 13	1353	298	87	1894
Shimer, Elmer S., Milton, Pa. Type-writing machine	630,121	Aug. 1	736	158	88	869
Shimer, John Q. (See Shimer, Allen C. and J. Q.)						
Shimer, Samuel J., Milton, Pa. Bit-gage for cutter-heads	625,707	May 23	3161	718	87	1377
Shimer, Samuel J., Milton, Pa. Cutter-head	629,276	July 18	2451	568, 569	88	512
Shimer, Samuel J., Milton, Pa. Trapezoidal cutter-head	630,749	Aug. 8	1917	432, 433	88	1109
Shimer, Samuel J. and E. S., Milton, Pa. Type-bar	620,509	Feb. 28	3088	705	86	1465
Shimoneck, William C., Washington, D. C. Folding support or holder for artists' tablets	622,640	Apr. 4	829	191	87	157
Shine, Jeremiah, Ballymacruse, Ireland. Garment	635,403	Oct. 24	2651	612	89	572
Shine, Michael T., Newark, N. J. Packing-twine cutter for counters, &c	617,515	Jan. 10	1240	283	86	261
Shinn, Charles C. (See Carey, Michael J., assignor.)						
Shinn, Lycurgus D., Bridgman, Mich. Quilting-frame	625,854	May 30	3462	785	87	1453
Shinn, William H., Los Angeles, Cal. Surface-irrigating system for sprinkling farm-lands, roads, or streets	628,127	July 4	316	75, 76	88	63
Shipe, Walter S., Toronto, Canada. Meat-skewer	623,571	Apr. 25	2536	583	87	544
Shipherd, Jacob R., trustee. (See Gentry, Oliver H., assignor.)						
Shipley, Alfred J., assignor to Scovill Manufacturing Company, Waterbury, Conn. Trousers hook and bar	623,434	Apr. 18	2281	522	87	476
Shipley, Thomas, York, Pa. Hoisting apparatus	628,861	July 11	1710	400	88	353
Shipley, Wallace E. (See Richards and Shipley.)						
Shippard, James A., Washington, D. C. Burial-casket	638,364	Dec. 5	348	73	89	1932
Shippee, Albert H., Killingly, Conn. Cultivator	635,002	Oct. 17	1877	446	89	406
Shires, Michael. (See Weaver, John D., assignor.)						
Shirk, Peter E., Blue Ball, Pa. Machine for cutting cigar-wrappers	633,162	Sept. 19	1818	427	88	2091
Shirike, Peter. (See Oakley and Shirike.)						
Shirley, Elmer J., El Modena, Cal. Hay-press	634,544	Oct. 10	1076	256	89	232
Shirreffs, Reuben, Richmond, Va. Governor mechanism	639,450	Dec. 19	2339	540	89	2359
Shivell, David, Arlington, Ind. Vehicle-top	623,186	Apr. 18	1844	422, 423	87	387
Shively, Christian, Carnegie, Pa. Adjustable door-sheave	637,677	Nov. 21	3157	654	89	1628
Shockey, Howard, *et al.* (See Haddox, George W., assignor.)						
Shoecraft, Fred W., Sturgis, Mich. Bicycle-path maker	628,363	July 4	777	181	88	149
Shoecraft, Judson, assignor of one-half to C. C. Gardiner, Topeka, Kans. Electrical railway signal	633,494	Sept. 19	2430	572	88	2210
Shoemaker, Alvin H., Nipgen, Ohio. Rotary engine	628,418	July 4	871	204, 205	88	167
Shoemaker, C. W. (See Haley, Jonathan, assignor.)						
Shoemaker, Clement W. (See Bridgwater, Harry H., assignor.)						
Shoemaker, Daniel N., Cainesville, Mo. Cabinet and safe	637,168	Nov. 14	1819	390	89	1316
Shoemaker, Henry C., Pierce City, Mo. Rasp	621,378	Mar. 21	1563	347	86	1829
Shoemaker, Hiram J., Bridgeton, N. J. Umbrella-support	620,616	Mar. 7	122	25	86	1526
Shoemaker. Ira G (See Greenawalt, Peter C., assignor.)						
Shoffner, Munroe V., Damascus, Ark. Hoe	630,750	Aug. 8	1918	433	88	1109
Shoffner, Munroe V., near Quitman, Ark., assignor of one-half to R. A. Jackson and A. Guthrie, Jr. Device for removing buckets, &c., from wells	621,379	Mar. 21	1564	347	86	1830
Shoffner, Munroe V., near Quitman, Ark., assignor of one-half to R. A. Jackson and A. Guthrie, Jr. Device for raising bailless buckets from wells	621,380	Mar. 21	1565	347	86	1830
Sholl, Howard N. F., Beatrice, Nebr. Corn-husker	633,220	Sept. 19	1938	455	88	2116
Shone Company. (See Thompson and Monté, assignors.)						
Shonnard, Harold W. (See Schrade and Shonnard.)						
Shook, James W., A. E. Barton, J. J. Shannon, J. Dunn, and E. Ramsay, Birmingham, Ala. Slag or cinder pot	618,256	Jan. 24	2675	593	86	570

Alphabetical list of patentees—Continued.

Name, residence, and invention.	No.	Date.	Monthly volume.		Official Gazette.	
			Spec.	Dr'g.	Vol.	Page.
Shork, John, Detroit, Mich., assignor to Western Electric Company, Chicago, Ill. Looping-in switch	621,860	Mar. 28	2455	548	86	2018
Short, Lewis A., Swartz Creek, Mich. Fence	628,167	July 4	391	92	88	79
Short, Sidney H., Cleveland, Ohio. Means for suspending electric motors	620,256	Feb. 28	2672	613	86	1384
Short, Sidney H., Cleveland, Ohio. Means for suspending motors	620,257	Feb. 28	2673	613	86	1385
Short, Sidney H., Cleveland, Ohio, assignor to Walker Company, of New Jersey. Controller for electric-motor cars or vehicles	629,398	July 25	2689	627	88	580
Short, Sidney H., Cleveland, Ohio, assignor to Walker Company, of New Jersey. Controlling apparatus for electric motors	629,399	July 25	2696	628	88	581
Short, Sidney H., Cleveland, Ohio, assignor to Walker Company, of New Jersey. Brush-holder	629,823	Aug. 1	113	28	88	742
Short, Sidney H., Cleveland, Ohio, assignor to Walker Company, of New Jersey. Controlling mechanism for electric railways	630,938	Aug. 15	2258	515 516	88	1202
Short, Sidney H., Cleveland, Ohio, assignor to Walker Company, of New Jersey. Controlling mechanism for electric-railway cars	630,939	Aug. 15	2261	516	88	1202
Shorter, Sydney. (See Stanbridge, Samuel, assignor.)						
Shortle, Christopher M. (See George and Shortle.)						
Shortle, James S., *et al.* (See Joss, Harold M., assignor.)						
Shortt, Edward G., Carthage, assignor to C. G. Emery, trustee, Clayton, N. Y. Valve mechanism for air-brakes	634,960	Oct. 17	1792	426 427	89	388
Shotwell, Melancthon S., Harrisburg, Pa. Car-body bolster	635,152	Oct. 17	2185	510	89	466
Shoup, George C., and W. N. Boller, assignors to Autographic Register Company, New York, N. Y. Manifolding sales-pad	638,288	Dec. 5	196	41	89	1904
Shourek, John, Pittsburg, Pa. Air-brake	636,858	Nov. 14	1184	257 258 259	89	1188
Shourt, Henry, Myers, Fla. Hat-fastener	624,109	May 2	298	62	87	758
Shrader, Isaac C., Harpersville, Ala. Gin-saw gummer	635,063	Oct. 17	1989	470	89	429
Shreeve, Thomas J., Uniontown, Md. Feather-renovator	629,929	Aug. 1	360	79	88	793
Shroyer, Martin, Fitz Henry, Pa. Automatic switch-lock	636,294	Nov. 7	121	26	89	946
Shryock, James W., Pueblo, Colo. Apparatus for removing electricity from the human system	620,679	Mar. 7	250	51	86	1550
Shryock, William T., Allegheny, Pa. Brake appliance	634,704	Oct. 10	1350	319	89	286
Shuart, Benjamin F., Oberlin, Ohio. Earth-scraper	636,859	Nov. 14	1197	259	89	1191
Shugers, J. Frank, Coldwater, Mich. Attachment for bicycles	636,570	Nov. 7	604	133	89	1044
Shugg, Henry W., Jr., *et al.* (See Stimpson, William H., assignor.)						
Shull, John. (See Shull, Samuel and J.)						
Shull, Samuel and J., Toston, Mont. Mowing-machine	618,443	Jan. 31	3042	673	86	654
Shultice, Robert W., *et al.* (See Gaylord, John F., assignor.)						
Shultz, Carl A., Ottawa, Kans. Buttonhole-cutter	627,628	June 27	2659	583	87	2189
Shultz, Horatio G., Chicago, Ill. Coin-controlled lock and holder for bicycles	617,693	Jan. 10	1580	357	86	327
Shultz, Jacob F., assignor of one-half to E. C. Proctor, San Jacinto, Cal. Hydrocarbon-burner	639,302	Dec. 19	2047	471	89	2301
Shuman, Constantine, Philadelphia, Pa. Whist-board	638,602	Dec. 5	780	169	89	2015
Shumate, Clarence L. (See Sanger and Shumate.)						
Shumate, David L., assignor of one-half to J. C. McCully, Excello, Mo. Bolt-holder	617,129	Jan. 3	522	125	86	102
Shumate, John L. (See Weingaertner and Shumate.)						
Shunk, Frank L., Gold Creek, Mont. Tobacco-pipe	626,570	June 6	632	146	87	1737
Shupert, Clayton O., and W. Stroop, Dayton, Ohio. Sizing-board for assorting tobacco	631,387	Aug. 22	3087	698	88	1382
Shuster, Franklin B., New Haven, Conn., assignor to J. H. Williams Company, Utica, N. Y. Heddle-making machine	626,571	June 6	632	146 147 148	87	1737
Shuster, Franklin B., New Haven, Conn., assignor to A. F. Churchill, Brunswick, Ga. Bale-tying device for compressors	639,946	Dec. 26	3242	743 744	89	2558
Shutt, John E. (See Thorsen and Shutt.)						
Shuttleworth, James J., Lauriston Ryde, New South Wales. Stopper and fastening for bottles, jars, casks, or other vessels	636,073	Oct. 31	3990	912	89	846
Shutts, Hugh B., Shawneetown, assignor of two-thirds to D. Reid and W. S. Phillips, Ridgeway, Ill. Dust-guard for car-windows	634,770	Oct. 10	1468	345	89	308
Shyvers, William, Santa Barbara, Cal. Letter-file	627,277	June 20	1953	430	87	2033
Sibley, Edward L., Bennington, Vt. Eyelet	634,564	Oct. 10	1115	265	89	240
Sibley, Gideon, Philadelphia, Pa. Dental disk-holder	636,571	Nov. 7	606	133	89	1045
Sibley, Josiah, assignor of two-thirds to H. C. Watt and F. H. Brown, Philadelphia, Pa. Suction or injector conveyer	628,187	July 4	430	102	88	87
Sibley, Lorenzo D., Vineland, N. J. Mining-dredge	629,048	July 18	2052	478	88	437
Sibson, Charles E. (See Preston and Sibson.)						
Sibthorpe, Lester H., Northam, England. Hook-carrier for sporting guns or rifles	636,295	Nov. 7	123	27	89	946
Sicka, Louis T., assignor to Denver Engineering Works Company, Denver, Colo. Frictional self-tightening fastening for cams, pulleys, &c	633,163	Sept. 19	1821	428	88	2092
Sickel, Howard V., and H. Riehl, Jr., Philadelphia, Pa. Machine for moistening and sealing envelops	630,571	Aug. 8	1623	362 363	88	1053
Sickels, Emma C., Washington, D. C. Refining vegetable oils	636,860	Nov. 14	1200	------	89	1192
Sicotte, Pierre, Lansing, assignor to himself, and H. J. Hellmers, Jr., Leavenworth, Kans. Band-saw-setting machine	620,856	Mar. 7	596	129	86	1620
Sicotte, Pierre, Lansing, assignor to himself, and H. J Hellmers, Jr., Leavenworth, Kans. Saw-setting-machine	622,086	Mar. 28	2865	645 646	86	2097
Sidwell, Arthur, Waltham, Mass. Dust-cap for bearings	631,054	Aug. 15	2486	563	88	1246
Sieben, Henry, Kansas City, Mo. Vent and backwater coupling	622,720	Apr. 11	971	226	87	204
Sieben, Henry, Chicago, Ill., assignor of one-half to G. D. Rand, Keokuk, Iowa. Steam-boiler furnace and connections	624,110	May 2	299	62, 63	87	758
Sieben, Henry, assignor of one-half to B. H. Smith, Kansas City, Mo. Grease-trap	617,057	Jan. 3	388	95	86	75
Sieben, Henry, assignor to Sieben Manufacturing Company, Kansas City, Mo. Sink and basin cock	630,940	Aug. 15	2263	516	88	1202
Sieben, Henry, assignor to Sieben Manufacturing Company, Kansas City, Mo. Stop and waste cock	630,941	Aug. 15	2264	516	88	1203
Sieben Manufacturing Company. (See Sieben, Henry, assignor.)						
Siebert, Heinrich, Elbing, Germany. Tubular marine boiler	635,003	Oct. 17	1878	446 447	89	407
Sieg, Georg E., Kalk, Germany Driving mechanism for autocars	638,816	Dec. 12	1181	264 265	89	2117
Siegel, Andrew W. (See Russell, Robert C., assignor.)						
Siegel Labeling Machine Company. (See Beauregard, Hausmann, and Gooding, assignors.)						
Siemens, Frederick, Dresden, Germany. Regenerative furnace	624,388	May 2	809	181 182	87	855
Siemens, Georg W. von, and A. W. H. Rotth, Berlin, Germany, assignors to Siemens & Halske Electric Company of America, Chicago, Ill. Means for cooling dynamo-electric machines	616,979	Jan. 3	208	48	86	41

Alphabetical list of patentees—Continued.

Name, residence, and invention.	No.	Date.	Monthly volume. Spec.	Monthly volume. Drg.	Official Gazette. Vol.	Official Gazette. Page.
Siemens & Halske Aktien-Gesellschaft. (See Frölich, Oscar, assignor.)						
Siemens & Halske Electric Company of America. (See Czikowski, Josef, assignor.)						
Siemens & Halske Electric Company of America. (See Drohan, Thomas E., assignor.)						
Siemens & Halske Electric Company of America. (See Franke, Adolf, assignor.)						
Siemens & Halske Electric Company of America. (See Frischmuth, Emmerich, assignor.)						
Siemens & Halske Electric Company of America. (See Grabe, Georg E. L., assignor.)						
Siemens & Halske Electric Company of America. (See Hoffmann, Ernst W. G. C., assignor.) (Reissue.)						
Siemens & Halske Electric Company of America. (See Hundhausen, Rudolf L. L., assignor.)						
Siemens & Halske Electric Company of America. (See Kahlenberg, Ernst L. K. F., assignor.)						
Siemens & Halske Electric Company of America. (See Knauth, Karl E. F., assignor.)						
Siemens & Halske Electric Company of America. (See Laschet, Nicolas J., assignor.)						
Siemens & Halske Electric Company of America. (See Meissner, Adolf E. W., assignor.)						
Siemens & Halske Electric Company of America. (See Oelschläger, Ernst G. P., assignor.)						
Siemens & Halske Electric Company of America. (See Prücker, Amand C. M., assignor.)						
Siemens & Halske Electric Company of America. (See Queisser, Paul F. H., assignor.)						
Siemens & Halske Electric Company of America. (See Raps, August, assignor.)						
Siemens & Halske Electric Company of America. (See Reichel, Emil B. W., assignor.)						
Siemens & Halske Electric Company of America. (See Rodde, Carl F., assignor.)						
Siemens & Halske Electric Company of America. (See Rotth, Wilhelm H. A., assignor.)						
Siemens & Halske Electric Company of America. (See Siemens and Rotth, assignors.)						
Siemens & Halske Electric Company of America. (See Stein, Wilhelm, assignor.)						
Siemens & Halske Electric Company of America. (See Zander, Friedrich W. E., assignor.)						
Siever, Charles W., Keyser, W. Va. Pants-guard for bicycles	632,430	Sept. 5	391	89	88	1784
Sieverkropp, Henry R., Racine, Wis. Bicycle-pedal attachment	634,591	Oct. 10	1157	275	89	247
Sieverkropp, Henry R., Racine, Wis. Bicycle-pedal attachment	634,592	Oct. 10	1157	275	89	248
Sieverkropp, Henry R., Racine, Wis. Bicycle-pedal attachment	638,649	Dec. 5	866	189	89	2033
Sievern, Gustav F., Reynoldton, Pa. Welding mechanism	628,168	July 4	393	92, 93	88	80
Sievers, John and P., Andover, Iowa. Cultivator	636,572	Nov. 7	607	133, 134	89	1045
Sievers, Peter. (See Sievers, John and P.)						
Sievert, Paul T., Dresden, Germany. Punching or stamping out glass articles	637,038	Nov. 14	1556	335	89	1261
Sievert, Paul T., Dresden, Germany. Manufacture of glass articles	637,899	Nov. 28	3573	748	89	1732
Sieverts, Wilhelm H. A., Hamburg-Uhlenhorst, Germany. Apparatus for forming incandescence mantles for gas-lights	621,979	Mar. 28	2703	610	86	2064
Siewert, Joseph, and M. Wisniewski, Chicago, Ill. Transom-lifter	632,326	Sept 5	217	51	88	1750
Sigler, Isaac G., Los Angeles, Cal., assignor of one-half to N. W. Tarr and H. McComb, Kingman, Ariz. Ter. Photographic camera	632,431	Sept. 5	391	90	88	1784
Signal and Control Company. (See Marrder, Charles A., assignor.)						
Signal and Control Company. (See Schoeffel and Aylward, assignors.)						
Signorastri, Michele, New York, N. Y. Artificial-flower-crimping machine	631,827	Aug. 29	3895	870	88	1551
Sigwart, Otto, Morgantown, W. Va. Machine for putting stems and feet on goblets, &c.	624,389	May 2	811	182	87	856
Sihler, William P., Decorah, Iowa. Fruit-jar cover	635,874	Oct. 31	3565	820	89	762
Silberman, Abraham, Baltimore, Md. Suspenders	632,972	Sept. 12	1438	332	88	2005
Silbermann, Albert. (See Schirm, Carl C., assignor.)						
Silcocks, Edward. (See Sandford, Thornley, and Silcocks.)						
Silkman, Aaron, and H. Sexton, New York, N. Y. Horseshoe	617,780	Jan. 17	1764	395	86	381
Silkman, Aaron, and H. Sexton, New York, N. Y. Tire for bicycles or similar vehicles	629,528	July 25	2949	686	88	630
Sillcox, George W. (See Phillips, Thomas, assignor.)						
Siller, Edward F. (See Reim, Reinhold J., assignor.)						
Silver, Annie. (See Kuster, William A., assignor.)						
Silver & Company. (See Silver, William H., assignor.)						
Silver Spring Bleaching and Dyeing Company. (See Stimpson, Thomas F., assignor.)						
Silver, William H., assignor to Silver & Company, New York, N. Y. Automatic oil-stove	624,880	May 9	1711	387, 388	87	1056
Silverburg, Eli, St. Louis, Mo. Cash-carrier	635,153	Oct. 17	2186	510	89	466
Silverman, Louis. (See Dawson and Silverman.)						
Silverman, Louis, Crayford, England. Lock	625,708	May 23	3163	718	87	1377
Silverman, Louis, Crayford, assignor to Vickers, Sons & Maxim, Limited, London, England. Gas-operated machine-gun	618,743	Jan. 31	3570	797, 798	86	757
Silverthorn, Alfred P., Ridley Park, Pa. Device for filling receptacles	633,913	Sept. 26	3193	743	88	2376
Simcoe, William B. (See Cheshire and Simcoe.)						
Simle, Herbrand O., Manvel, N. D. Thill-coupling	639,780	Dec. 26	2952	679	89	2500
Simmel, Salo, Newark, N. J. Lacing device	622,721	Apr. 11	973	226	87	204
Simmons, Alonzo J., Indianapolis, Ind. Automatic fluid-separator	625,904	May 30	3559	808	87	1470
Simmons, Daniel, Holyoke, assignor of two-thirds to C. F. Mooers, Thorndike, and W. M. Fuller, Springfield, Mass. Hydrocarbon-burning apparatus	630,751	Aug. 8	1919	433	88	1109
Simmons, George E., *et al.* (See Elliott, Lorenzo D., assignor.)						
Simmons, John P., assignor to S. V. Mooney, San Francisco, Cal. Air-compressor	635,516	Oct. 24	2887	659	89	618
Simmons, John P., assignor to S. V. Mooney, San Francisco, Cal. Air-compressor	635,517	Oct. 24	2888	659	89	618
Simmons, Joseph C., Martinsville, Ohio. Portable fence	629,529	July 25	2950	687	88	630
Simmons, Leo, Washington, D. C. Marine merry-go-round	628,679	July 11	1394	325	88	289
Simmons Manufacturing Company. (See Gail, John F., assignor.)						
Simmons, Nimrod, Bristol, England. Coupling for pipes	618,587	Jan. 31	3298	733	86	704
Simmons, Orrin E., assignor of one-half to C. H. McLean, South Byron, Wis. Apparatus for applying stay-wires to wire fences	623,187	Apr. 18	1845	423	87	387
Simmons, William A., trustee. (See Brewer, William J., assignor.)						
Simmons, William A., California, Mo. Clothes-pin	618,444	Jan. 31	3043	673	86	655
Simmons, Zalmon G., Jr., T. Forgham, and G. M. Bennett, Kenosha, Wis. Coal unloading and distributing apparatus for use in ballast burning	633,348	Sept. 19	2180	511, 512, 513	88	2163
Simms, Elwyn E., Albert Lea, assignor of one-half to W. E. Lockerby, Minneapolis, Minn. Means for placing, removing, and cleaning electric lamps	636,229	Oct. 31	4271	981	89	903
Simms, Eugene S., Denver, Colo. Electric signaling system	624,390	May 2	812	182, 183	87	856
Simms, Frederick R., London, England. Explosion engine or motor	617,660	Jan. 10	1514	344	86	315
Simms, Frederick R., London, England. Explosion engine or motor. (Reissue)	11,763	Aug. 1	1083	236	88	936
Simms. George A. (See Bireley and Simms.)						
Simms, H. C., *et al.* (See Wright, Joseph F., assignor.)						
Simms, James T., Terre Haute, Ind. Type-writer attachment	623,221	Apr. 18	1897	435	87	397
Simon, Charles, Swan, Ind. Voting-machine	639,303	Dec. 19	2048	471	89	2301

Alphabetical list of patentees—Continued.

Name, residence, and invention.	No.	Date.	Monthly volume. Spec.	Monthly volume. Dr'g.	Official Gazette. Vol.	Official Gazette. Page.
Simon, Charles, assignor to J. R. Geigy & Co., Basle, Switzerland. Green trisazo dye and making same	628,233	July 4	509		88	102
Simonds, Frank A. (See Lisle, Myron C., assignor.)						
Simonds, George H. (See Blackadar, Charles, assignor.)						
Simonds, John B. (See Williams Edwin H., assignor.)						
Simonds, Justin F., Washington, D. C. Talking-board instrument	619,236	Feb. 7	827	182	86	974
Simonds Manufacturing Company. (See Olson, Ezra B., assignor.)						
Simonds Manufacturing Company. (See Power, John J., assignor.)						
Simonds Rolling Machine Company. (See Gantt, Henry L., assignor.)						
Simonds, Thomas S. (See Corse, Homer W., assignor.)						
Simonet, Francis, New York, N. Y. Machine for cutting sugar	633,914	Sept. 26	3194	744	88	2376
Simonini, Angelo, New York, N. Y. Gas-lighting device	623,572	Apr. 25	2536	583	87	545
Simonnier, Anton O., assignor of eleven-twentieths to E. Frischauer, Vienna, Austria-Hungary. Composition for carbons for electric lamps	624,552	May 9	1118		87	939
Simons, Al Burt, assignor of one-half to F. M. La Fayette, Buffalo, N. Y. Back-pedaling brake	637,742	Nov. 21	3263	680	89	1650
Simons, Henry C., Odebolt, Iowa. Washing-machine	621,861	Mar. 28	2457	548	86	2018
Simons, James E., McKees Rocks, Pa. Draft-rigging	627,540	June 27	2482	545	87	2153
Simonson, Niels, Cleveland, Ohio. Derrick pile-driver	628,128	July 4	320	76	88	64
Simonton, James G. (See Leilich, Francis T., assignor.)						
Simonton, John H., Brighton, Tenn. Device for hoisting wagon-bodies	621,164	Mar. 14	1177	256	66	1742
Simpkins, William N., Streator, Ill. Hay-rack loader or unloader	628,364	July 4	777	181	88	150
Simplex Electrical Company. (See Heinze, John, Jr., assignor.)						
Simplex Railway Appliance Company. (See Parks, Robert H., assignor.)						
Simplex Revolving Sash Company. (See Weingaertner and Shumate, assignors.)						
Simpson, Denton, Centre, Ind. Corn-planter	634,482	Oct. 10	964	231	89	210
Simpson, Edward S. (See Frank and St. Gemmes, assignors.)						
Simpson, George, Crosshills, England. Ball-bearing hub	622,868	Apr. 11	1231	286	87	253
Simpson, George, and J. Hillegas, Lowry City, Mo. Collapsible crate	639,833	Dec. 26	3045	700	89	2519
Simpson, George W., London, England. Maximum thermometer	631,095	Aug. 15	2562	579	88	1259
Simpson, James V., *et al.* (See Rubira, Luciano S., assignor.)						
Simpson, John L., Hamill, Pa. Checkrein-hook	636,927	Nov. 14	1351	288	89	1219
Simpson, Roy B., Dallas, assignor of one-half to W. E. Kaye, Fort Worth, Tex. Mandolin	627,067	June 13	1580	346	87	1938
Simpson, Roy B., Dallas, assignor of one-half to W. E. Kaye, Fort Worth, Tex. Mandolin. (Reissue)	11,752	June 20	2334	514	87	2107
Simpson, Rufus A., Ferndale, Cal. Butter-cutting apparatus	639,911	Dec. 26	3185	732	89	2547
Simpson, Walter N., Chicago, Ill., assignor of one-fourth to W. E. Corcoran, Jr., New York, N. Y. Means for checking and registering accounts	626,637	June 6	751	173	87	1759
Simpson, William E., Handsworth, England. Variable-speed gearing	632,591	Sept. 5	694	160	88	1843
Simpson, William W., Battle Creek, Mich. Index	629,214	July 18	2351	546	88	493
Sims, Andrew M., assignor of one-half to G. F. Hayden, Denver, Colo. Hair-clipper	620,617	Mar. 7	124	25	86	1526
Sims, Bruce, assignor of one-half to C. Sims, Paris, Ill. Dumping apparatus	640,036	Dec. 26	3412	782	89	2593
Sims, Charles. (See Sims, Bruce, assignor.)						
Sims-Dudley Defense Company. (See Sims, Winfield S., assignor.)						
Sims, Winfield S., Newark, N. J., assignor to Sims-Dudley Defense Company, New York, N. Y. Breech-loading gun	619,025	Feb. 7	438	92	86	895
Sims, Winfield S., Newark, N. J., assignor to Sims-Dudley Defense Company, New York, N. Y. Breech mechanism for guns	619,026	Feb. 7	439	92, 93	86	895
Simultaneous Color Printing Syndicate. (See Montin, Henry de, assignor.)						
Sinclair, Clark, Hawthorne, assignor of three-fourths to J. A. Brown and W. O. Parker, Bridgeport, Nev. Spring-motor	628,149	July 4	360	85	88	73
Sinclair, Duncan J., Caledonia, N. Y. Coupling for vehicles	617,196	Jan. 3	636	148	86	125
Sinclair, Millard F., assignor of one-half to J. Gillen, Humboldt, Tenn. Coupling for air-pipes of railway-cars	622,980	Apr. 11	1431	330	87	292
Sinclair, Millard F., assignor of one-half to J. Gillen, Humboldt, Tenn. Coupling for air-pipes of railway-cars	623,573	Apr. 25	2539	583	87	545
Sinclair, Peter S., Holyoke, Mass. Paper-making apparatus	625,941	May 30	3619	823	87	1482
Sinclair, William G. (See Rousay and Sinclair.)						
Sincock, David, Clyde Park, Mont. Butt-adjuster	620,858	Mar. 7	600	130	86	1620
Sincock, David, assignor of one-half to S. P. Heren & Sons and G. D. Hunter, Clyde Park, Mont. Mowing-machine	620,857	Mar. 7	598	129, 130	86	1620
Sincock, David, assignor of one-half to S. P. Heren, G. D. Hunter, J. H. Martin, and W. F. Lee, Clyde Park, Mont. Mowing-machine	632,375	Sept. 5	299	69	88	1766
Singer Manufacturing Company. (See Allen, Edward B., assignor.)						
Singer Manufacturing Company. (See Curtis, George H. W., assignor.)						
Singer Manufacturing Company. (See Diehl, Philip, assignor.)						
Singer Manufacturing Company. (See Diehl and Hemleb, assignors.)						
Singer Manufacturing Company. (See Diehl and Müller, assignors.)						
Singer Manufacturing Company. (See Douglas, John, assignor.)						
Singer Manufacturing Company. (See Foster, Charles H., assignor.)						
Singer Manufacturing Company. (See Grieb, Alfred, assignor.)						
Singer Manufacturing Company. (See Hemleb, Martin, assignor.)						
Singer Manufacturing Company. (See Nopper, George J., assignor.)						
Singer Manufacturing Company. (See Oesterreich, Amandus J. A., assignor.)						
Singer Manufacturing Company. (See Rontke, Albert, assignor.)						
Singer Manufacturing Company. (See Rudolph, Otto H., assignor.)						
Singin, Louis N., Wall, Pa. Car-coupling	636,361	Nov. 7	224	50	89	965
Sinnickson, John W., Philadelphia, Pa., and B. F. Meyer, Camden, N. J.; said Meyer assignor to said Sinnickson. Machine for securing neck-wires to bottles	622,550	Apr. 4	663	155	87	127
Sinning, William, Pittsburg, Pa. Educational appliance	622,551	Apr. 4	666	155	87	127
Sinnott, Ida C. (See Gipple, Rebecca A., assignor.)						
Sintz, Clark. (See Bolling, Charles R., assignor.)						
Sinzheimer, Alexander, Philadelphia, Pa. Shirt	631,828	Aug. 29	3895	870, 871	88	1551
Sinzheimer, Alexander, Philadelphia, Pa. Neckband for shirts	638,765	Dec. 12	1090	244	89	2100
Sinzheimer, Alexander, Philadelphia, Pa. Neckband for shirts	638,766	Dec. 12	1092	245	89	2100
Sinzheimer, Alexander, Philadelphia, Pa. Neckband for shirts	638,767	Dec. 12	1094	245	89	2100
Sipe & Sigler. (See Willard, Theadore A., assignor.)						
Sipp, Grant, Paterson, N. J. Winding-machine	627,211	June 20	1828	400	87	2007
Sisum, William H. H., deceased, Belleville, N. J.; J. Wilkinson, administrator. Spinning-jenny	625,811	May 30	3382	768	87	1437
Sittmann, Gustav, New York, N. Y. Variable-speed gearing	635,518	Oct. 24	2889	659, 660	89	618
Sitts, Henry D., Oneonta, N. Y. Ironing-board	636,573	Nov. 7	610	134	89	1046
Sixt, Fredrick C., assignor to Chandler & Price Company, Cleveland, Ohio. Platen printing-press	627,017	June 13	1501	328	87	1924

Alphabetical list of patentees—Continued.

Name, residence, and invention.	No.	Date.	Monthly volume.		Official Gazette.	
			Spec.	Dr'g.	Vol.	Page.
Sjöholm, Ellen M., Stockholm, Sweden. Baker's oven, &c	623,222	Apr. 18	1898	436	87	397
Skabcura Dip Company. (See Banning, Frederick D., assignor.)						
Skalla, Frank, Washington, N. J. Puzzle	621,506	Mar. 21	1793	399	86	1873
Skanks, George W., Chelsea, assignor of one-half to G. D. Emery, Allston, Mass. Non-refillable bottle	629,307	July 18	2505	584	88	522
Skeet, Robert C., (See Black and Skeet.)						
Skelly, Allan. (See Skelly, John, A., and D.)						
Skelly, David. (See Skelly, John, A., and D.)						
Skelly, Frank O., Jeannette, Pa. Nut-lock	629,530	July 25	2951	687	88	631
Skelly, John, A., and D., Dunaskin, Scotland. Device for raising or lowering window-blinds, signal-lamps, &c	636,296	Nov. 7	124	27	89	947
Skelton, Robert, Dublin, Ireland. Cycling-skirt	632,592	Sept. 5	696	160 161	88	1844
Skersick, Joseph F. (See Skersick, Joseph W. and J. F.)						
Skersick, Joseph W. and J. F., Bertram, Iowa. Wrench	623,188	Apr. 18	1847	423	87	387
Skews, James, *et al.* (See Reese, William, assignor.)						
Skiles, Robert M., and E. M. Bourne, Wiota, Iowa. Corncob kindling	626,308	June 6	163	39	87	1644
Skillin, Thomas J., Chicago, Ill. Grain-trimming device	619,799	Feb. 21	1866	425	86	1217
Skimin, John, and J. McDanield, Bonner Springs, Kans. Combined wagon and stock and hay rack	623,339	Apr. 18	2114	485 486	87	442
Skimin, John, and J. McDanield, Bonner Springs, Kans. Wagon-seat support	623,340	Apr. 18	2118	486	87	443
Skinner, Charles E. (See Lamme and Skinner.)						
Skinner, Courtland, assignor to F. C. Austin, Chicago, Ill. Ore-crusher	617,781	Jan. 17	1766	395 396	86	381
Skinner, Courtland, assignor to F. C. Austin, Chicago, Ill. Apparatus for separating materials by centrifugal force	617,864	Jan. 17	1923	430 431	86	414
Skinner, Courtland, assignor to F. C. Austin, Chicago, Ill. Apparatus for separating materials by centrifugal force	617,865	Jan. 17	1928	432	86	415
Skinner, Frank, Philadelphia, Pa. Trousers-hanger	617,130	Jan. 3	523	125	86	102
Skinner, Fred R., Syracuse, N. Y. Puzzle	639,868	Dec. 26	3101	713	89	2529
Skinner, Henry J., Buffalo, N. Y. Washing-machine	622,552	Apr. 4	668	156	87	127
Skinner, John, Colorado Springs, Colo. Sash-coping machine	630,994	Aug. 15	2365	538 539	88	1221
Skinner, John, assignor of one-third to R. Ashley, Davison, Mich. Potato-digger	628,495	July 11	1015	236 237	88	216
Skinner, Le Grand, Erie, Pa. Steam-engine governor	628,591	July 11	1202	281	88	252
Skinner Le Grand, Erie, Pa. Oil-pump	632,949	Sept. 12	1401	324	88	1998
Skinner Orson F., assignor to W. J. Ramsey, Sunfield, Mich. Spindle attachment for vehicles	630,995	Aug. 15	2367	539	88	1222
Skinner William E., Fort Worth, Tex. Dipping-vat	625,474	May 23	2759	628	87	1297
Skirrow, John F., East Orange, N. J. Telegraph-switchboard	631,132	Aug. 15	2621	593	88	1271
Skoglund, Jean V. Bayonne, N. J., assignor to himself, and A. Winter, New York, N. Y. Apparatus for making acids	640,037	Dec. 26	3414	782	89	2593
Skogse, Gustav, assignor to Locke Steel Belt Company, New York, N. Y. Link-and-chain-making machine	633,371	Sept. 19	2223	524	88	2171
Skogse, Gustave, assignor to Phenix Tube Company, New York, N. Y. Machine for rolling metal tubes	617,363	Jan. 10	961	221	86	207
Skoog, Carl G., St. Paul, Minn. Convertible cane and stool	636,074	Oct. 31	3991	913	89	846
Skow, Niels K., Newton, Iowa. Machine for sharpening rotary cutters	628,496	July 11	1017	237	88	216
Skreberg, Hans A., Big Bend, Minn. Letter-file, &c	631,592	Aug. 22	3474	785	88	1460
Slack, Andrew J., Philadelphia, Pa. Curtain-fixture	633,048	Sept. 12	1567	364	88	2030
Slack, John H., Cincinnati, and W. W. Riley, Norwood, Ohio. Portable drying-rack	622,281	Apr. 4	148	34	87	31
Slack, William J., La Grange, Ind. Cistern	629,277	July 18	2453	569	88	512
Slagle, Samuel M. (See Williamson, Daniel, assignor.)						
Slater, Garrett, Kalamazoo, Mich. Vehicle-heater and street-lighter	634,674	Oct. 10	1294	305	89	275
Slater, James C., St. Louis, Mo. Telephone system	632,759	Sept. 12	1046	243 244	88	1928
Slater, William W., *et al.* (See Park, Louis C., assignor.)						
Slaton, Robert M., Madisonville, Ky. Rotary-disk cultivator	622,553	Apr. 4	669	156	87	127
Slauson, Emily, Racine, Wis. Heel-protector for shoes	628,188	July 4	431	102	88	87
Slauson, William G., Olean, N. Y. Printer's lock-up and furniture	638,072	Nov. 28	3880	817	89	1792
Slawik, Joseph, Bloomfield, N. J. Organ-action	623,843	Apr. 25	3044	700	87	641
Sleeper, Charles W., Lancaster, N. H., assignor to Sleeper Machine Company, Boston, Mass. Can-crimping machine	624,879	May 9	1710	387	87	1055
Sleeper, George W., Detroit, Mich., assignor to Sleeper Patent Flexible Insole Company of Detroit, of Michigan. Mold for creasing and flanging insoles	632,760	Sept. 12	1051	244	88	1930
Sleeper Machine Company. (See Sleeper, Charles W., assignor.)						
Sleeper Patent Flexible Insole Company of Detroit. (See Sleeper, George W., assignor.)						
Sleeth, William H., Oskaloosa, Iowa. Chair-leg fastener	639,781	Dec. 26	2953	680	89	2500
Sleffel, William J. (See Latty and Sleffel.)						
Sleight, Edward H. (See Goldsworthy, William, assignor.)						
Sleight, Elizabeth M., deceased, Kingston; W. H. Sleight, administrator, assignor, by mesne assignments, to Safety Hat Pin and Novelty Company, Albany, N. Y. Safety hat-pin	626,506	June 6	536	123	87	1718
Sleight, William H., administrator. (See Sleight, Elizabeth M.)						
Sleister, Robert H. (See Dempster, Kline, and Sleister.)						
Sleister, Robert H., Nebraska City, Nebr. Seed-drill	620,057	Feb. 21	2316	526	86	1302
Slick, Edwin E., Braddock, Pa. Blast-furnace-feeding apparatus	620,510	Feb. 28	3089	706 707	86	1465
Slick, Edwin E., Braddock, Pa. Blowing-engine	620,983	Mar. 14	845	185	86	1677
Slick, Edwin E., Braddock, Pa. Gas-burner	624,391	May 2	815	183	87	857
Slinack, Victor H., assignor to Pennsylvania Globe Gas Light Company, Philadelphia, Pa. Street-lamp	618,140	Jan. 24	2459	548	86	531
Slinack, Victor H., assignor to Pennsylvania Globe Gas Light Company, Philadelphia, Pa. Hydrocarbon-burner for incandescent lights	630,996	Aug. 15	2369	539	88	1222
Slinkman, John H., assignor of one-half to C. O. Spillman, Martinsburg, W. Va. Apparatus for casting split dies for artificial tooth-crowns	619,847	Feb. 21	1948	442	86	1234
Sloan, James I., Kansas City, Kans. Toaster	636,297	Nov. 7	125	27	89	947
Slocomb, Frank F., Wilmington, Del. Leather-working machine	630,122	Aug. 1	738	159	88	869
Slocum, Charles H., assignor to Patent Button Company, Waterbury, Conn. Button	624,258	May 2	575	123	87	809
Slocum, Frank L., Pittsburg, Pa. Steam-superheating furnace	629,094	July 18	2144	498	88	456
Slocum, George S., Newport, R. I. Sand-blast machine	636,460	Nov. 7	388	87	89	999
Slocum, Guy W. (See Crass, George F., assignor.)						
Slonacher, Eli B., Greensburg, Pa. Door opening, closing, and locking device	619,626	Feb. 14	1505	343 344	86	1121
Slonecker, Abiram J., Farmersville, Mo. Churn	626,874	June 13	1243	274	87	1873

Alphabetical list of patentees—Continued.

Name, residence, and invention.	No.	Date.	Monthly volume.		Official Gazette.	
			Spec.	Dr'g.	Vol.	Page.
Slotterbeck, George W. (See Slotterbeck, Henry, assignor.)						
Slotterbeck, Henry, Los Angeles, Cal. Folding snag-hook	637,169	Nov. 14	1821	391	89	1310
Slotterbeck, Henry, assignor of one-half to G. W. Slotterbeck, Los Angeles, Cal. Collapsible snag-hook for fishing	626,777	June 13	1036	232	87	1834
Slucki, Adam, Warsaw, Russia. Apparatus for heating or cooling gaseous media	619,512	Feb. 14	1315	302	86	1087
Sly, Byron E. (See Teeter and Sly.)						
Sly, Thomas H., Dunmore, Pa. Self-lubricating journal-box	636,461	Nov. 7	393	87	89	1000
Small, Chester C., Newton, Mass., assignor to McKay Shoe Machinery Company, Portland, Me., and Boston, Mass. Press	635,196	Oct. 17	2251	524, 525	89	479
Small, Dexter M., Providence, R. I. Carbureter	626,193	May 30	4181	950	87	1586
Small, Henry J., Sacramento, Cal. Number-displaying device for caboose-cars	621,862	Mar. 28	2458	548, 549	86	2019
Small, Kossuth W., Richmond, Me. Dental bib	636,462	Nov. 7	395	88	89	1000
Small, Sylvester J., Seattle, Wash. Printing-telegraph	621,863	Mar. 28	2459	549, 550, 551	86	2019
Small, Thomas, Chicago, Ill. Car-fender	632,068	Aug. 29	4335	974	88	1635
Smalley, Albert G. (See Edson, William, assignor.)						
Smalley, Albert G., Boston, Mass. Drink-mixer	630,009	Aug. 1	534	118	88	829
Smalley, Albert J., El Reno, Okla. Ter. Windmill	619,627	Feb. 14	1507	344	86	1122
Smalley, Albert J., El Reno, Okla. Ter. Washing-machine	635,197	Oct. 17	2254	525	89	480
Smalley, Clarence C., assignor to Smalley Manufacturing Company, Manitowoc, Wis. Straw or feed cutter	628,287	July 4	627	148	88	121
Smalley, James B., and C. A. Reiners, assignors to Elevator Supply and Repair Company, Chicago, Ill. Electric signaling apparatus for elevators	634,220	Oct. 3	444	115, 116	89	93
Smalley Manufacturing Company. (See Smalley, Clarence C., assignor.)						
Smalley, William H., Yonkers, N. Y. Covering for books	639,451	Dec. 19	2344	541	89	2360
Smallwood, George T., Washington, D. C. Velocipede	628,614	July 11	1232	287, 288	88	258
Smallwood, George T., Washington, D. C. Graphophone	639,452	Dec. 19	2345	541	89	2360
Smallwood, John H., Paterson, N. J., assignor of one-half to E. T. Mason & Co., New York, N. Y. Loom	631,503	Aug. 22	3475	785, 786	88	1460
Smalstig, Frederick C., assignor of one-half to G. Mayer, Allegheny, Pa. Can-opener	626,507	June 6	536	124	87	1718
Smart, Albert J., assignor to Wiley & Russell Manufacturing Company, Greenfield, Mass. Tap-wrench	623,435	Apr. 18	2282	523	87	477
Smart, George E., Hartford, assignor to Stanley Works, New Britain, Conn. Rod-feeding device	630,010	Aug. 1	535	118	88	829
Smart, George E., Hartford, assignor to Stanley Works, New Britain, Conn. Machine for manufacturing sheet-metal hinges	636,574	Nov. 7	611	134, 135	89	1046
Smart, Walter J., South Orange, N. J. Incandescent burner	638,768	Dec. 12	1095	245	89	2101
Smead, George W. (See Mock and Smead.)						
Smead, George W., and C. H. Mock, Pittsburg, Pa. Boot-cleaner	640,038	Dec. 26	3415	783	89	2594
Smelker, Angeline, North Star, Ohio. Closure for fruit-jars	622,400	Apr. 4	340	78	87	64
Smethurst, Edward. (See Greig and Smethurst.)						
Smethurst, George, Maynard, Mass. Time-wheel mechanism	622,869	Apr. 11	1233	286	87	253
Smillie, George W., Newark, N. J. Car-coupling	636,575	Nov. 7	613	135	89	1046
Smith, Abraham L., New York, N. Y. Puzzle	636,576	Nov. 7	615	135	89	1046
Smith, Addie R., *et al.* (See Smith, David D., assignor.)						
Smith, Albert A. (See Holland, George N., assignor.)						
Smith, Albert C., Saco, Me. Lubricating journal-box	617,817	Jan. 17	1838	410	86	398
Smith, Albert D., assignor of one-half to L. Schafer, St. Louis, Mo. Coin-controlled vending apparatus	625,812	May 30	3385	768, 769	87	1437
Smith, Albert S. (See Mills and Smith.)						
Smith, Alonzo B. (See Elrod, Prickett, and Smith.)						
Smith, Amos H., New York, N. Y. Fastening device for window-sashes	635,982	Oct. 31	3780	871	89	805
Smith, Andrew H., New York, N. Y. Street-sweeper	633,296	Sept. 19	2069	485	88	2141
Smith, Andrew J., assignor of one-third to H. Griswold, Springfield, Ill. Key mechanism for musical instruments	633,915	Sept. 26	3197	745	88	2377
Smith, Andrew M., Falls Creek, Pa. Milk-rack and refrigerator	634,070	Oct. 3	146	38	89	33
Smith, Andrew V., San Francisco, Cal. Sail-rig for ships	633,705	Sept. 26	2844	661	88	2305
Smith, Annie D., West Orange, N. J. Flour sifter and mixer	634,771	Oct. 10	1469	346	89	309
Smith & Anthony Company. (See Lloyd, William H., assignor.)						
Smith, Arthur J., London, England. Manufacture of varnish	631,679	Aug. 22	3617	815	88	1488
Smith, Asher, Melvern, Kans. Wire-fence-making machine	619,628	Feb. 14	1508	345	86	1122
Smith, Atley, Dayton, Wyo. Potato-cutter	631,409	Aug. 22	3119	708	88	1388
Smith, Augustus E., Los Banos, Cal. Music-leaf turner	617,364	Jan. 10	963	221	86	207
Smith, B. C., *et al.* (See Pitt, William, assignor.)						
Smith, B. H. (See Sieben, Henry, assignor.)						
Smith, Benjamin C., Kansas City, Kans. Cultivator	627,541	June 27	2483	546	87	2154
Smith, Benjamin C., Kansas City, Kans. Cultivator	639,782	Dec. 26	2954	680	89	2500
Smith, Benjamin F., Bay City, Mich. Combined telephone and push-button	635,944	Oct. 31	3698	854	89	788
Smith, Benjamin F., Bay City, Mich. Magazine attachment for stoves	638,289	Dec. 5	197	41	89	1904
Smith, Benjamin F., assignor of two-thirds to J. S. Campbell, Wichita, Kans. Nut-lock	635,519	Oct. 24	2895	661	89	620
Smith, Bernard, *et al.* (See Smith, Edward F., assignor.)						
Smith, Charles, Belleville, N. J. Machine for screening pulp	630,123	Aug. 1	740	159, 160	88	870
Smith, Charles, South Side, Bermuda. Railway-joint	639,453	Dec. 19	2348	541	89	2361
Smith, Charles A., New Philadelphia, Ohio. Railway-car roof	629,877	Aug. 1	235	52	88	766
Smith, Charles E., Lake Grove, N. Y. Step-ladder	621,432	Mar. 21	1643	365	86	1846
Smith, Charles E., Napoleon, Ohio. Gearing for windmills	633,619	Sept. 26	2696	627	88	2275
Smith, Charles E., Oroville, Cal. Door-lock	638,404	Dec. 5	417	87	89	1945
Smith, Charles F. (See White, Paul H., assignor.)						
Smith, Charles F., *et al.* (See Kendall, Elton P., assignor.)						
Smith, Charles F., assignor to Landers, Frary & Clark, New Britain, Conn. Right and left hand stop and waste cock	633,916	Sept. 26	3198	745	88	2377
Smith, Charles G., Detroit, Mich. Automatic fire-extinguisher system	617,365	Jan. 10	965	222	86	207
Smith, Charles H. (See Olson, Smith, and Belina.)						
Smith, Charles H. (See Reams and Smith.)						
Smith, Charles H. (See Travers and Smith.)						
Smith, Charles H., Boston, Mass. Ironing-board	626,638	June 6	754	173	87	1760
Smith, Charles H., Detroit, Mich. Wheel	628,863	July 11	1712	400	88	354
Smith, Charles H., assignor to Geo. L. Thompson Manufacturing Company, Chicago, Ill. Bicycle fork-crown	616,980	Jan. 3	211	48	86	41
Smith, Charles R., and H. F. Lisle, Bloomington, Ill. Pipe-coupling	626,937	June 13	1356	298	87	1895
Smith, Charles S., Milwaukee, Wis. Flush joint for tubular bicycle-frames	626,309	June 6	164	40	87	1644
Smith, Charles S., St. Johnsbury, Vt. Tire-setter	637,834	Nov. 28	3438	718	89	1705

Alphabetical list of patentees—Continued.

Name, residence, and invention.	No.	Date.	Monthly volume. Spec.	Monthly volume. Dr'g.	Official Gazette. Vol.	Official Gazette. Page.
Smith, Charles S., Milwaukee, Wis., assignor to Premier Manufacturing Company, Hartford, Conn. Adjustable cone-fastening for ball-bearing axles	631,445	Aug. 22	3186	723	88	1402
Smith, Charles S., Milwaukee, Wis., assignor to American Saddle Company, Cleveland, Ohio. Adjustable saddle-support	634,096	Oct. ?	198	49	89	43
Smith, Charles S., assignor of one-half to J. B. Hadaway, Brockton, Mass. Boot or shoe	637,948	Nov. 28	3651	766	89	1748
Smith, Charles T., assignor to Union Electric Company, Cleveland, Ohio. Pneumatic hand-drill	634,071	Oct. 3	148	39	89	34
Smith, Charles T., and A. J. Johnson, assignors, by mesne assignments, to Cleveland Pneumatic Tool Company, Cleveland, Ohio. Pneumatic drill	640,039	Dec. 26	3416	783	89	2594
Smith, Charles W., Brookline, N. H. Stave-jointing machine	620,000	Feb. 21	2204	502	86	1281
Smith, Charles W., Moline, assignor to J. F. Robinson, Rock Island, Ill. Compressing-machine	631,446	Aug. 22	3187	724	88	1402
Smith, Chris N., Elgin, Ill. Metal-plate-bending machine	622,282	Apr. 4	148	34, 35	87	31
Smith, Chris N., Elgin, Ill. Extension-table	634,372	Oct. 3	763	181, 182	89	152
Smith, Clarence E., New Britain, Conn., assignor to North & Judd Manufacturing Company, of Connecticut. Snap-hook	618,912	Feb. 7	162	35	86	837
Smith, Clarence W., Cold Spring, N. Y. Wrench	630,523	Aug. 8	1537	343	88	1035
Smith, Clement. (See Smith, Lucius A. and C.)						
Smith, Clement C. (See Bullard and Smith.)						
Smith, Conrad E., Plainfield, Ill. Sand-screen	619,443	Feb. 14	1201	272	86	1062
Smith, Cyrus E., Fall River, Mass. Clearer for drawing-rolls	637,040	Nov. 14	1558	336	89	1262
Smith, Cyrus E., Fall River, assignor to Whitin Machine Works, Incorporated, Whitinsville, Mass. Stop-motion for carding-machines	638,943	Dec. 12	1398	319, 320	89	2159
Smith, Daniel W., South Omaha, Nebr. Windmill	638,603	Dec. 5	781	169, 170	89	2015
Smith, Darius, Syracuse, N. Y. Sterilized surgical dressing	617,474	Jan. 10	1175	------	86	248
Smith, David D., assignor to A. R. Smith and F. F. Crowell, Indianapolis, Ind. Surgical lamp	624,392	May 2	816	183, 184	87	857
Smith, De Wane B., Deerfield, N. Y. Bicycle-pump	634,961	Oct. 17	1805	428	89	392
Smith, De Wane B., Deerfield, N. Y. Sprayer	634,962	Oct. 17	1806	428	89	392
Smith, Delmar W. (See Isham, Willard S., assignor.)						
Smith, E. H. (See Smith, Henry V., assignor.)						
Smith, E. K., *et al.* (See Stukes, John M., assignor.)						
Smith, Ed M., assignor of one-half to A. E. Richardson, Chicago, Ill. Tool-holding device	633,620	Sept. 26	2697	628	88	2275
Smith, Edward, Bradford, England. Apparatus for weaving fabrics	635,198	Oct. 17	2256	525, 526, 527	89	480
Smith, Edward B., *et al.* (See Montgomery, Edwin H., assignor.)						
Smith, Edward C., Oskaloosa, Iowa. Screen	617,197	Jan. 3	639	149	86	125
Smith, Edward F., Cincinnati, Ohio. Safety-escape and pressure-indicator for acetylene-generators	621,623	Mar. 21	1993	445	86	1912
Smith, Edward F., assignor of two-thirds to B. Smith, Cincinnati, and C. S. Bell, Hillsborough, Ohio. Acetylene-gas generator	618,015	Jan. 17	2190	489	86	466
Smith, Edward G., New York, N. Y. Printing-machine	633,967	Sept. 26	3289	766	88	2394
Smith, Edwin A., New York, N. Y. Bicycle-saddle	618,240	Jan. 24	2650	585, 586	86	565
Smith, Edwin B. (See Dewhurst and Smith.)						
Smith, Edwin C., Providence, R. I. Card-file	621,165	Mar. 14	1178	256	86	1742
Smith, Edwin G., Machias, N. Y. Curtain-stay	631,908	Aug. 29	4029	902	88	1576
Smith & Egge Manufacturing Company. (See Smith, Friend W., Jr., assignor.)						
Smith, Eldridge J., Washington, D. C. Street-sweeper	634,963	Oct. 17	1807	428	89	392
Smith, Eli. (See Bender and Smith.)						
Smith, Elias A., Anaconda, Mont. Electrolytic refining of copper	617,886	Jan. 17	1966	------	86	423
Smith, Elias A., and M. H. Lyng, Anaconda, Mont. Extracting metallic ores	617,911	Jan. 17	2024	452, 453	86	433
Smith, Emily E. (See Moore, Frank L., assignor.)						
Smith, Emma J., *et al.* (See Childers, Henry M., assignor.)						
Smith, Emmett L., assignor to Smith Sons Gin and Machine Company, Birmingham, Ala. Cotton cleaner and feeder	631,030	Aug. 15	2439	553, 554	88	1236
Smith, Ezra B., Cincinnati, Ohio. Fifth-wheel	622,981	Apr. 11	1432	330	87	293
Smith, Ezra B., and M. C. Weiglein, Cincinnati, Ohio. Thill-coupling attachment	637,530	Nov. 21	2508	544	89	1461
Smith, F. H. (See Hughes, Enoch, assignor.)						
Smith, Frank C., Delaware, Ohio. Pneumatic electric safe or vault protection	623,689	Apr. 25	2739	628	87	582
Smith, Frank E., New Orleans, La. Automatic flush-valve	627,357	June 20	2112	467	87	2064
Smith, Frank W., Portland, Me. Sterilizing-retort	624,989	May 16	1905	427	87	1111
Smith, Frank W., assignor of one-fourth to F. O. Conant, Portland, Me. Apparatus for sterilizing canned goods	628,554	July 11	1140	266	88	240
Smith, Frank W., assignor of one-half to F. O. Conant, Portland, Me. Rotary retort	629,617	July 25	3108	723	88	660
Smith, Fred H., assignor to Geneva Optical Company, Chicago, Ill. Pocket-case for opticians' lenses, &c	620,984	Mar. 14	846	185, 186	86	1677
Smith, Fred R. (See Winspear and Smith.)						
Smith, Frederic W., Chicago, Ill. Reducing-valve	621,864	Mar. 28	2467	551	86	2021
Smith, Frederick H., Dumblane, Scotland. Explosive-engine	636,298	Nov. 7	126	27	89	947
Smith, Fredric W., Chicago, Ill. Bicycle	626,875	June 13	1249	274, 275	87	1874
Smith, Friend W., Jr., assignor to Smith & Egge Manufacturing Company, Bridgeport, Conn. Wire chain	628,189	July 4	432	103	88	87
Smith, George. (See Crozier and Smith.)						
Smith, George. (See Mallory, Ernest E., assignor.)						
Smith, George, Chicago, Ill. Halter-fastener	619,629	Feb. 14	1512	345	86	1123
Smith, George A., assignor to Morgan & Wright, Chicago, Ill. Wheel-rim for elastic tires	633,917	Sept. 26	3199	745	88	2377
Smith, George E., Windsor, N. Y. Pencil or pen holder	626,728	June 13	936	212	87	1814
Smith, George E., assignor to C. W. Stetson, Boston, Mass. Telltale-bottle	617,782	Jan. 17	1770	396	86	382
Smith, George E., Buford, Ga., assignor of one-half to S. R. Payne, Riddleton, Tenn. Bridle-bit	637,170	Nov. 14	1822	391	89	1311
Smith, George F. (See Bright and Smith.)						
Smith, George F., Buffalo, N. Y. Automatic air-vent	618,913	Feb. 7	163	35	86	837
Smith, George L., assignor of one-fourth to A. H. Jester, Princeton, Ill. Drawers-supporter	633,535	Sept. 19	2498	588	88	2223
Smith, George P., *et al.* (See Sharpneck, Frank A., assignor.)						
Smith, George W., *et al.* (See Kennard, William K., assignor.)						
Smith, George W., Jamestown, N. Y. Rubber horseshoe	639,105	Dec. 12	1683	388	89	2214
Smith, George W., assignor to E. A. Marsh, Rochester, N. Y. Bag-delivering apparatus for mail-cars	631,410	Aug. 22	3120	708	88	1388

Alphabetical list of patentees—Continued.

Name, residence, and invention.	No.	Date.	Monthly volume. Spec.	Monthly volume. Dr'g.	Official Gazette. Vol.	Official Gazette. Page.
Smith, Granger, *et al.* (See Montgomery, Edwin H., assignor.)						
Smith, Hamilton E., Philadelphia, Pa. Distilling apparatus	621,166	Mar. 14	1180	256	86	1742
Smith, Hanson E. (See Leiding, Charles, assignor.)						
Smith, Harper F., Philadelphia, Pa. Burner	623,386	Apr. 18	2199	504	87	459
Smith, Harper F., Philadelphia, Pa. Burner	628,995	July 18	1961	456	88	419
Smith, Harper F., Philadelphia, Pa. Street-lamp	632,761	Sept. 12	1053	244, 245	88	1930
Smith, Harper F., Philadelphia, Pa. Vapor-burner	634,705	Oct. 10	1352	320	89	286
Smith, Harry B., New York, N. Y. Blank for paper boxes	634,507	Oct. 10	1004	240	89	218
Smith, Harry E., Chicago, Ill. Apparatus for examining documents	632,026	Aug. 29	4253	956	88	1620
Smith, Harry F., assignor of one-half to G J. Hooper, Richmond, Va. Rail-joint	638,290	Dec. 5	198	42	89	1904
Smith, Harry J., Philadelphia, Pa. Gas-washer	629,400	July 25	2699	628	88	582
Smith, Harry J., New York, N. Y. Fishing-reel	630,632	Aug. 8	1740	390	88	1074
Smith, Harry W., Paragould, Ark. Colter-clamp	623,263	Apr. 18	1982	454	87	415
Smith, Henry F., assignor of two-thirds to E. Horsky and A. F. Kleese, Helena, Mont. Horseshoe-calk sharpener	636,417	Nov. 7	514	71	89	984
Smith, Henry V., Hartford, assignor of one-half to E. H. Smith, Bridgeport, Conn. Knife	621,543	Mar. 21	1866	413	86	1887
Smith, Henry W. (See Kerr, James G., assignor.)						
Smith, Henry W., New Philadelphia, assignor of one-half to L. L. Pennock, Minerva, Ohio. Stovepipe	632,852	Sept. 12	1222	280	88	1965
Smith, Herbert P., assignor of one-half to D. D. Dayton, Lime Springs, Iowa. Broom-moistener	634,097	Oct. 3	199	49	89	43
Smith, Herbert W., and W. J. Baughman, assignors to Stanley Electric Manufacturing Company, Pittsfield, Mass. Electric apparatus	636,577	Nov. 7	616	136	89	1047
Smith, Herman, *et al.* (See Ahrens, Howard E., assignor.)						
Smith, Hinsdale, Springfield, Mass. Explosive-engine	624,555	May 9	1127	253	87	941
Smith, Hinsdale, Springfield, Mass. Variable-speed gearing	626,444	June 6	422	100	87	1695
Smith. Hinsdale, Springfield, Mass. Variable-speed gearing	626,445	June 6	424	100	87	1696
Smith, Hinsdale, Springfield, Mass. Gas-engine	632,762	Sept. 12	1056	245	88	1931
Smith, Hinsdale, Springfield, Mass. Explosive-gas engine	632,763	Sept. 12	1057	245	88	1931
Smith, Horace W., *et al.* (See Bishop, Marshall M., assignor.)						
Smith, Howard B., Fruitvale, Cal. Boom or gaff for vessels	624,988	May 16	1904	427	87	1110
Smith, Hugh, Watervliet, N. Y. Nut-lock	625,610	May 23	2992	682	87	1344
Smith, Hugh, assignor of one-half to S. A. Waterman, Watervliet, N. Y. Combined match-safe and cigar-cutter	627,711	June 27	2798	612	87	2215
Smith, Isaac, South Bend, Wash. Pruning implement	623,633	Apr. 25	2640	603	87	562
Smith, Isaac, Nottingham, England. Rotary meter	638,073	Nov. 28	3882	817	89	1798
Smith, Isaac B., *et al.* (See Henderson and Hibbard, assignors.)						
Smith, Jacob, Harrisburg, Pa. Snood fishing-hook keeper	639,454	Dec. 19	2349	541	89	2361
Smith, Jacob E., Homestead, Pa. Rail-joint	628,555	July 11	1142	266	88	240
Smith, Jacob S., Chicago, Ill. Valve	624,990	May 16	1906	427	87	1111
Smith, Jacob S., Chicago, Ill. Method of and apparatus for dehydrating gas	625,126	May 16	2151	488	87	1155
Smith, Jacob S., Chicago, Ill. Process of and apparatus for dehydrating gas	626,729	June 13	937	213	87	1814
Smith, James A., Newburg, N. Y. Adjustable shade-holder	624,259	May 2	576	123	87	809
Smith, James A., assignor to Landers, Frary & Clark, New Britain, Conn. Lard-press, &c.	618,744	Jan. 31	3577	798	86	759
Smith, James E., and J. J. Thomas, Talihina, Ind. Ter. Guard-rail clamp	623,574	Apr. 25	2541	584	87	545
Smith, James G., Philadelphia, Pa. Street-cleaning device	631,096	Aug. 15	2563	579	88	1260
Smith, James G., assignor of two-thirds to G. Hildenbrandt, Covington, and G. W. Davy, Louisville, Ky. Automatic lubricator for journal-boxes	634,860	Oct. 10	1634	382	89	340
Smith, James H., Providence, R. I. Apparatus for graining metallic plates for surface-printing	622,554	Apr. 4	670	156	87	128
Smith, James H., Providence, R. I. Sheet-feeder	636,463	Nov. 7	396	88	89	1000
Smith, James H., Newark, Ohio. Valve-operating mechanism	625,363	May 23	2575	586	87	1262
Smith, James J., Cobleskill, N. Y. Foot-block for derricks	634,917	Oct. 17	1726	409	89	375
Smith, James K., Edinburgh, Scotland. Hot-plate	633,049	Sept. 12	1568	365	88	2030
Smith, James L., East Riverside, Cal. Eraser-cleaning machine	628,615	July 11	1236	288	88	259
Smith, James O. (See Burchard, Alonzo H., assignor.)						
Smith, James O., Pittsburg, Pa. Projectile	632,027	Aug. 29	4254	956, 957	88	1620
Smith, James O., Pittsburg, Pa. Adjustable clencher for pneumatic tires	632,028	Aug. 29	4256	957	88	1621
Smith, James S., Chicago, Ill. Lock-strike	633,918	Sept. 26	3200	746	88	2377
Smith, James S., Beebe, Ark. Wire-stretcher	636,075	Oct. 31	3994	913	89	847
Smith, James T., Kimball, Kans. Cultivator-shovel	620,618	Mar. 7	125	25	86	1526
Smith, Jasper N. (See Cooper, Cyrus, assignor.)						
Smith, Jasper N., Tiverton, Ohio. Wagon-standard	629,618	July 25	3109	724	88	660
Smith, Jay H., Chico, Cal. Calipers	634,918	Oct. 17	1727	410	89	376
Smith, Jesse C., Shelbina, Mo. Disk cultivator	621,865	Mar. 28	2469	551, 552	86	2021
Smith, Jesse F., Hattiesburg, Miss. Sash-fastener	619,444	Feb. 14	1202	273	86	1063
Smith, John, London, England. Apparatus for storing hydrocarbons or other liquids	636,076	Oct. 31	3995	913, 914	89	847
Smith, John A., Kingston, assignor of one-half to H. G. Brashears, St. Paul, Ark. Harrow	639,304	Dec. 19	2050	471, 472	89	2301
Smith, John C., Massapeag, Conn. Washing-machine	626,105	May 30	3999	911, 912	87	1550
Smith, John C., Cleveland, Ohio. Pumping-engine	628,419	July 4	873	205, 206	88	168
Smith, John D., Pond Hill, Pa. Ironing-board	637,039	Nov. 14	1557	335	89	1261
Smith, John G., Pawnee, Ill. Snout-slitter for swine	639,869	Dec. 26	3102	714	89	2529
Smith, John H., Glide, Oreg. Manual-power machine	625,475	May 23	2760	628, 629	87	1297
Smith, John T., Heron Lake, Minn. Flax breaking and reducing machine	634,675	Oct. 10	1296	305	89	276
Smith, John W., Portland, Oreg. Folding lantern	623,436	Apr. 18	2283	523	87	477
Smith, John W., Portland, Oreg. Store-stool and foot-rest	634,373	Oct. 3	766	182	89	152
Smith, John W., Columbia, Fla. Car-truck	624,556	May 9	1131	253	87	942
Smith, John W., Baltimore, Md. Bottle-stopper	629,619	July 25	3110	724	88	661
Smith, John Y., Pittsburg, assignor of two-thirds to C. T. Schoen and W. C. De Armond, Philadelphia, Pa. Smoke-consumer and back-pressure reducer	619,051	Feb. 7	483	100, 101	86	904
Smith, Johnson B., West Union, W. Va. Baling-press	633,395	Sept. 19	2273	535	88	2180
Smith, Joseph, Salt Lake City, Utah. Treating gold or silver ores	635,199	Oct. 17	2258	------	89	480
Smith, Joseph C., New York, N. Y. Automatic signal-buoy	622,283	Apr. 4	151	35	87	31
Smith, Joseph N., Detroit, Mich. Spring seat-post	626,396	June 6	344	80	87	1680
Smith, Joseph W., Newton, Mass. Suspender-end	624,557	May 9	1132	254	87	942
Smith, Joseph W., Girard, assignor to C. H. New, Youngstown, Ohio. Tawing leather	632,154	Aug. 29	4498	------	88	1669
Smith, Joseph W., Girard, assignor of one-third to C. H. New, Youngstown, Ohio. Composition for tawing leather	632,208	Aug. 29	4603	------	88	1688

Alphabetical list of patentees—Continued.

Name, residence, and invention.	No.	Date.	Monthly volume.		Official Gazette.	
			Spec.	Dr'g.	Vol.	Page.
Smith, Julian M., New Orleans, La. Electric signal	625,364	May 23	2578	587	87	1263
Smith, Junius G. (See Gardner and Smith.)						
Smith, Lawrence N. W., Ree Heights, S. D. Lubricant	627,278	June 20	1954	------	87	2033
Smith, Lewis C., *et al.* (See Kennard, William K., assignor.)						
Smith, Louis B., assignor of one-half to E. Rosencrantz and C. A. Lundquist, Jamestown, N. Y. Water-closet flushing-valve	637,357	Nov. 21	2196	473	89	1399
Smith, Lucius A. and C., Topeka, Kans. Truss	638,365	Dec. 5	349	73	89	1933
Smith, Lyman B., Mansfield, E. R. Maine, Mainesburg, and D. H. Pitts, Mansfield, assignors to Keystone Farm Machine Company, Limited, York, Pa. Weeder	618,212	Jan. 24	2595	573	86	555
Smith, Martin, *et al.* (See Elgen, Magnus P., assignor.)						
Smith, Mary C., Camden, N. J. Skirt-protector	630,572	Aug. 8	1625	363	88	1053
Smith, Mary J., New York, N. Y. Press for preparing fomentations	635,200	Oct. 17	2260	527	89	480
Smith & McLaurin. (See McLaurin, William W., assignor.)						
Smith, Nelson W. and W. P., Carthage, Mo. Rotary steam-engine	632,928	Sept. 12	1368	315, 316	88	1991
Smith, Orien R., Athens, Mich. Disk harrow	623,575	Apr. 25	2542	584	87	545
Smith, Orien R., Athens, Mich. Ditching-machine	638,291	Dec. 5	200	42	89	1904
Smith, Oscar E., Chicago, Ill. Resilient tire for wheels	632,069	Aug. 29	4337	975	88	1636
Smith, Oscar T. (See Selden and Smith.)						
Smith, Paul H., Columbus, Ohio. Trunk	622,870	Apr. 11	1234	287	87	253
Smith, Percy L., Lowell, Mass. Bicycle-whirl	634,857	Oct. 10	1628	380	89	339
Smith, Perry C., Indianapolis, Ind. Stopper for washbasins or bath-tubs	630,011	Aug. 1	537	118	88	829
Smith, Preston A., Richford, Vt. Commode attachment	623,189	Apr. 18	1848	423, 424	87	387
Smith, Richard, Sherbrook, Canada. Screen for paper-making machines	628,234	July 4	510	123	88	102
Smith, Richard H., Springfield, Mass. Hand-stamp	636,077	Oct. 31	3997	914	89	847
Smith, Richard H., Springfield, Mass. Hand-stamp	638,187	Nov. 28	4125	871	89	1841
Smith, Richard N. W., Paisley, Scotland. Apparatus for weaving pile fabrics	634,037	Oct. 3	95	24,25	89	33
Smith, Robert B., Quincy, assignor to Power Eyeletting Machine Company, Boston, Mass. Power eyeleting-machine	638,994	Dec. 12	1507	345	89	2180
Smith, Robert D., and F. A. Delano, Chicago, Ill. Car-door lock	618,445	Jan. 31	3043	673	86	655
Smith, Robert H., Bement, Ill. Non-refillable bottle	624,393	May 2	818	184	87	857
Smith, Robert P. (See Drum, George E., assignor.)						
Smith, Robert R., New Hartford, Conn. Fabric	630,573	Aug. 8	1626	363	88	1053
Smith, Rudolph C., Yonkers, assignor of one-half to J. Cruickshank, Kingston, N. Y. Elevator	618,141	Jan. 24	2460	548	86	532
Smith, Rufus W., Oklahoma, Okla. Ter. Windmill	628,497	July 11	1019	237, 238	88	217
Smith, S. Russell. (See Huffman, William L., assignor.)						
Smith, Samuel, Waterloo, Iowa. Car-coupling	623,845	Apr. 25	3049	701	87	642
Smith, Samuel E., Olean, N. Y. Umbrella-runner	638,074	Nov. 28	3883	817	89	1793
Smith, Samuel J., Mineola, Tex. Combined couch and bath-tub	630,416	Aug. 8	1330	298, 299	88	996
Smith, Sarah E., Toledo, Ohio. Luggage-carrier or package-holder	622,722	Apr. 11	974	226, 227	87	204
Smith, Simon, Weisburg, assignor of one-half to F. Rehberger, Manchester, Ind. Churn	637,425	Nov. 21	2321	500	89	1425
Smith Sons Gin and Machine Company. (See Smith, Emmett L., assignor.)						
Smith, Stephen D., Orlando, Fla. Cooling and freezing apparatus	627,602	June 27	2604	574	87	2178
Smith, T. J. (See Anderson, James J., assignor.)						
Smith, T. Carpenter, *et al.* (See Mucklé, John S., assignor.)						
Smith, Taylor J. (See Wilson and Smith.)						
Smith, Theodore, Georgetown, Ill. Swinging bracket	619,445	Feb. 14	1203	273	86	1063
Smith, Theodore F., Lafayette, Ind. Chime	632,029	Aug. 29	4257	959	88	1621
Smith, Theodore R., Los Angeles, Cal. Electromagnetic hone	617,783	Jan. 17	1771	396	86	383
Smith, Thomas A. (See Vose, John G., assignor.)						
Smith, Thomas A., Azusa, Cal. Switch and means for operating same	627,883	June 27	3105	680	87	2275
Smith, Thomas D., Wilkes-Barré, Pa. Automatic drain-valve for steam-cylinders	634,188	Oct. 3	378	97	89	78
Smith, Thomas H., Jamestown, N. Y Automatic tension-wire and bobbin-brake for warpers	624,695	May 9	1368	305	87	988
Smith, Thomas H., Bowie, Tex. Car-coupling	629,620	July 25	3111	724	88	661
Smith, Thomas H., Eighty-Four, Pa. Pick-holding device for mandolins	631,729	Aug. 22	3720	835	88	1506
Smith, Thomas P. (See Shaw, Edgar, assignor.)						
Smith, Thomas S., Los Angeles, Cal. Mechanical movement	622,827	Apr. 11	1155	266, 267	87	238
Smith, Turberville, London, England. Boot or shoe attachment	637,900	Nov. 28	3574	748, 749	89	1732
Smith, Uriah, Battle Creek, Mich. Combination camp-chair and cane	617,661	Jan. 10	1515	344	86	315
Smith, Uzziel P., Chicago, Ill. Making puncture-closing air-tubes for pneumatic tires	637,171	Nov. 14	1824	391	89	1311
Smith, Uzziel P., Chicago, Ill. Puncture-closing air-tube for pneumatic tires	637,172	Nov. 14	1827	391	89	1311
Smith, Uzziel P., Chicago, Ill. Detachable tire for bicycles	637,173	Nov. 14	1830	392	89	1311
Smith, Uzziel P., Chicago, Ill. Means for connecting ends of pneumatic tubes	638,188	Nov. 28	4127	872	89	1841
Smith, Walter E., Dunellen, N. J. Car-fender	626,639	June 6	754	173	87	1760
Smith, Walter F., Philadelphia, Pa., assignor to United Electric Improvement Company, Gloucester City, N. J. Apparatus for exhausting electric lamps	630,997	Aug. 15	2370	540	88	1222
Smith, Walter F., Philadelphia, Pa., assignor to United Electric Improvement Company, Gloucester City, N. J. Photometer	632,285	Sept. 5	149	34	88	1737
Smith, Walter L., Elmira, N. Y. Golf-club	626,347	June 6	245	57	87	1661
Smith, Walter L., Chicago, assignor to H. Date, Austin, Ill. Memoranda-file	623,046	Apr. 11	1545	357	87	315
Smith, Walter L., Chicago, assignor to H. Date, Austin, Ill. Memorandum-file	631,338	Aug. 22	2996	679	88	1364
Smith, Walter L., Garwin, Iowa, assignor, by mesne assignments, to C. W. Blessing and F. A. Gillette, Chicago, Ill. File	626,508	June 6	537	124	87	1718
Smith, Walter M., Newcastle-upon-Tyne, England. Steam-generator	620,807	Mar. 7	501	106, 107	86	1600
Smith, Walter P., Clarksville, Iowa. Harrow	638,769	Dec. 12	1097	246	89	2101
Smith, Walter W., *et al.* (See Bronner, Edmond D., assignor.)						
Smith, Warren, Hawkinsville, Ga., assignor of one-half to C. T. King, De Leon Springs, Fla. Cotton-seed dropper	630,752	Aug. 8	1921	434	88	1110
Smith, Warren S., Stone Church, Pa. Wagon-brake	623,844	Apr. 25	3048	701	87	641
Smith & Wesson. (See Wesson and Hobbs, assignors.)						
Smith, Wilbert L., trustee (See Brown, Alexander T., assignor.)						
Smith, William. (See Needham and Smith.)						
Smith, William, Kirksville, Mo. Apparatus for reproducing by stencils	639,623	Dec. 19	2642	606	89	2421
Smith, William A., Coshocton, Ohio. Holder for newspapers, &c	632,155	Aug. 29	4499	1013	88	1670
Smith, William B., Columbia, S. C. Ice-cream freezer	633,621	Sept. 26	2699	628	88	2275
Smith, William C. (See Nichols, Edwin C., assignor.)						
Smith, William C., Iowa Park, Tex. Wire-stretcher	626,938	June 13	1357	298	87	1895

Alphabetical list of patentees—Continued.

Name, residence, and invention.	No.	Date.	Monthly volume.		Official Gazette.	
			Spec.	Dr'g.	Vol.	Page.
Smith, William C., Portland, Me. Bevel-gearing	635,875	Oct. 31	3566	821	89	762
Smith, William E., Baltimore, Md., assignor to J. J. Purman, Washington, D. C. Method of and apparatus for dipping, measuring, and transferring molten glass from tanks to molds	617,818	Jan. 17	1839	411	86	398
Smith, William F.. Cripple Creek, Colo. Elevator	630,417	Aug. 8	1333	299	88	996
Smith, William F., assignor of seven-eighths to S. B. Longfellow, R. Stephens, and O. C. Williams, Macksburg, Ohio. Pump	639,870	Dec. 26	3103	714	89	2530
Smith, William G., Garwin, Iowa. Shutter-slat holder	637,949	Nov. 28	3652	766	89	1748
Smith, William H., Aurora, Ill. Feed-water heater and purifier	619,513	Feb. 14	1316	302	86	1088
Smith, William H., New York, N. Y. Smokeless furnace	621,587	Mar. 21	1934	433	86	1900
Smith, William H., London, England. Storage battery	630,753	Aug. 8	1922	434	88	1110
Smith, William H., assignor to J. R. Keim, Buffalo, N. Y. Sheet-metal seat-post bracket	634,772	Oct. 10	1470	346	89	309
Smith, William J., New York, N. Y. Detachable tie-frame	626,939	June 13	1359	299	87	1896
Smith, William J., San Francisco, Cal. Apparatus for thawing explosives	635,945	Oct. 31	3699	854	89	789
Smith, William J., New Haven, Conn. Tap	636,009	Oct. 31	3831	880 881	89	815
Smith, William J., New Haven, assignor to Geometric Drill Company, Westville, Conn. Tap	625,611	May 23	2993	682	87	1344
Smith, William J., New Haven, assignor to Geometric Drill Company, Westville, Conn. Milling-tool	630,998	Aug. 15	2371	540	88	1223
Smith, William P. (See Smith, Nelson W. and W. P.)						
Smith, Willoughby S., London, England. Electric cable	626,940	June 13	1359	299	87	1896
Smither, Robert K., Buffalo, N. Y. Ointment-injector	627,658	June 27	2707	593	87	2198
Smither, Theodore F. (See Pumphrey, Edward M., assignor.)						
Smithers, Charles W. H., and A. A. Kelly, Fond du Lac, Wis. Apparatus for developing roll-films	634,631	Oct. 10	1220	290	89	259
Smithwick, A. A. (See Debremond, Charles, assignor.)						
Smokeless Fuel Saving Stove Company. (See Girtanner, Frederick, assignor.)						
Smouse, Hugh W., Rowlesburg, W. Va. Sausage-stuffing machine	636,010	Oct. 31	3833	881	89	815
Smreker, Ernst, Vienna, Austria-Hungary. Measuring apparatus	635,154	Oct. 17	2188	510	89	467
Smurthwaite, Charles A. (See Hope, William M., assignor.)						
Smyser, Louis B., Elizabeth, N. J., assignor to F. E. Canda, New York, N. Y. Gearing for motor-vehicles	617,819	Jan. 17	1843	412	86	398
Smyser, Louis B., assignor of one-half to W. H. McFadden, Philadelphia, Pa. Frame for bicycles or like vehicles	629,401	July 25	2700	628	88	582
Smyser, Louis B., assignor to J. A. Brill, Philadelphia, Pa. Curtain-operating device	634,189	Oct. 3	379	97	89	78
Smyser, Louis B., assignor to J. A. Brill, Philadelphia, Pa. Car-truck	635,357	Oct. 24	2550	593 594	89	552
Smyser, Michael D., and G. W. Taylor, Spring Forge, Pa. Canvas-fastener for belt-carriers	626,572	June 6	640	148	87	1739
Smyth, David G., Hartford, Conn. Printing-telegraph	623,846	Apr. 25	3051	701 702	87	642
Smyth, Louis N., and N. B. Dieterich, Kansas City, Mo. Street-car fender	634,508	Oct. 10	1005	240	89	218
Smyth Manufacturing Company. (See Nasch, Isidor, assignor.)						
Smyth, William H., Berkeley, and P. H. Reardon, San Francisco, Cal.; said Smyth assignor to said Reardon. Valve	636,391	Nov. 7	279	62	89	977
Smythe, Edwin H., Freeport, Ill., assignor to American Bell Telephone Company, Boston, Mass. Telephone-switchboard circuit	623,437	Apr. 18	2285	523	87	477
Smythe, Henry. (See Myers, Frederick, assignor.)						
Smythe, William R., Madison, S. D. Wrench	618,485	Jan. 31	3108	688	86	668
Snavely, Benjamin H., Brunnerville, and T. H. Keller, Lititz, Pa. Cigar-machine	617,366	Jan. 10	969	222 223 224 225	86	208
Snebold, Albert A., Natrona, Pa. Plumb-bob	632,286	Sept. 5	151	35	88	1737
Snedeker, Orlando W., Chicago, Ill. Button for keys for musical instruments	637,756	Nov. 21	3295	688	89	1657
Snell, Arthur T., assignor by mesne assignments, to B. A. Benjamin, Los Angeles, Cal. Lawn-sprinkler	625,988	May 30	3715	843	87	1501
Snell, Lord O., Athens, Pa. Neck-yoke harness-coupling	630,524	Aug. 8	1538	343	88	1035
Snow, Albert G., assignor of one-half to J. W. Richards, Scranton, Pa. Globe-holder	634,221	Oct. 3	454	116	89	94
Snow, Charles A., Lime Springs, Iowa. Photographic-background carrier	624,111	May 2	301	63	87	758
Snow, Charles P. (See Glotfelty and Snow.)						
Snow, Charles P., Lanark, Ill. Clothes-washing device	635,404	Oct. 24	2651	613	89	572
Snow, Elmer J., assignor of one-half to W. W. Snow, Hillburn, N. Y. Car-wheel	629,969	Aug. 1	453	97	88	813
Snow, George B., Buffalo, N. Y. Dental plugger	629,621	July 25	3113	724	88	661
Snow, George B., and A. D Gritman, Buffalo, N. Y. Dental articulator	629,531	July 25	2952	687	88	631
Snow, Jacob H., Indianapolis, Ind. Scoop-scale	630,942	Aug. 15	2266	517	88	1203
Snow, L. T. (See Ashworth, Robert and A. W., assignors.)						
Snow, Levi T., New Haven, Conn. Food-chopper	626,212	May 30	4210	957	87	1592
Snow, Levi T., New Haven. Conn Case for food-choppers. (Reissue)	11,771	Sept. 5	915	213	88	1895
Snow, Levi T., New Haven Conn Bit-brace	635,902	Oct. 31	3627	836	89	775
Snow, William C. (See Chandler, George W., assignor.)						
Snow. William W. (See Snow, Elmer J., assignor.)						
Snow Wind-Mill Company. (See Goddard, Harry C., assignor.)						
Snow Windmill Company. (See Hansen, Hawken P., assignor.)						
Snowden, Lewis W., Tilden, Tex Hood for cactus-burners	638,650	Dec. 5	867	189	89	2033
Snowdon, Archibald G., assignor of thirty-seven fiftieths to A. E. Morris and J. Michaels, Montreal, Canada. Non-refillable bottle	623,047	Apr. 11	1546	357	87	316
Snyder, August, Allegheny, Pa. Pump-governor	630,754	Aug. 8	1925	434 435	88	1110
Snyder, Augustus G., Ilion, N. Y. Rotary pump	688,853	Dec. 12	1242	280	89	2128
Snyder, Benjamin B., and J. J. Seldner, Baltimore, Md. Drier	636,928	Nov. 14	1352	288 289	89	1219
Snyder, Benjamin F. (See Richards and Snyder.)						
Snyder, Calvin, Tiffin, Ohio. Hoe	619,630	Feb. 14	1513	345	86	1123
Snyder, Charles A., D. J. Cheesman, and J. A. Moore, Boulder, Colo. Ore-sampler	621,771	Mar. 21	2290	515	86	1970
Snyder, Charles S. (See Caryl and Snyder.)						
Snyder, Daniel G., Reading, Pa. Combined step-ladder, ironing-board, and bench	622,723	Apr. 11	975	227	87	205
Snyder, Frank H., and N. C. Hansen, Fresno, Cal. Raisin-seeding machine	639,871	Dec. 26	3106	714 715	89	2530
Snyder, Frederick T. (See Mather and Snyder.)						
Snyder, Frederick T., Keewatin, Canada. Key and keyway	633,107	Sept. 12	1707	402	88	2057
Snyder, George G., and M. L. West, Easton, Pa. Acetylene-gas lamp	629,215	July 18	2353	546	88	493
Snyder, Harry I., Downer's Grove, Ill. Inkstand	638,770	Dec. 12	1100	246	89	2102
Snyder, John A. L., Somis, Cal. Permutation-padlock	625,989	May 30	3717	843	87	1501
Snyder, John C., Bowling Green, Ohio. Nut-lock	622,555	Apr. 4	672	157	87	128

Alphabetical list of patentees—Continued.

Name, residence, and invention.	No.	Date.	Monthly volume. Spec	Monthly volume. Dr'g.	Official Gazette. Vol.	Official Gazette. Page.
Snyder, John H., Canton, Ill. Cigar-packer	623,634	Apr. 25	2641	603	87	563
Snyder, John J., Denver, Colo. Gas-generating gas-fixture	628,365	July 4	779	181	88	150
Snyder, Ogden S., Formosa, Kans. Dust-receptacle	622,284	Apr. 4	153	36	87	32
Snyder, Richard A. L. (See Heard and Snyder.)						
Snyder, Robert. (See Pickel and Snyder.)						
Snyder, William. (See Spicer and Snyder.)						
Snyder, William T., assignor of one-half to J. W. Fuller, Catasauqua, Pa. Flask for forming perfect cast and balanced car-wheels	636,464	Nov. 7	397	88	89	1001
Snypp, Charles E., Gretna, La. Press-plate	632,156	Aug. 29	4500	1013	88	1670
Snypp, Charles E., Gretna, La. Press-plate	632,157	Aug. 29	4501	1013	88	1670
Snypp, Charles E., Gretna, La. Press for extracting oil, &c	632,158	Aug. 29	4502	1014	88	1670
Soady, Frank, Pekin, Ill. Garment-supporter	626,845	June 13	1166	260	87	1857
Sobey, William, assignor to J. I. Case Plow Works, Racine, Wis. Combined corn and cotton planter	620,191	Feb. 28	2559	581, 582	86	1362
Sobey, William, assignor to J. I. Case Plow Works, Racine, Wis. Sulky-plow	620,192	Feb. 28	2561	582	86	1362
Sobey, William, assignor to J. I. Case Plow Works, Racine, Wis. Automatic spring-trip for cultivator-shovels	631,232	Aug. 15	2781	630	88	1304
Sobinski, Charles O. (See Hodges and Sobinski.)						
Sobinski, Charles O., St. Louis, Mo. Air pump or compressor	630,525	Aug. 8	1540	343, 344	88	1035
Sobinski, Charles O., assignor to Brockner-Evans Bale Tie Company, St. Louis, Mo. Supporting-frame for coiled wire	630,269	Aug. 1	984	217	88	917
Sobinski, Charles O., assignor to Brockner-Evans Bale Tie Company, St. Louis, Mo. Feed-roll for wire-bale-tie machines	630,270	Aug. 1	985	217, 218	88	917
Société Anglo-Francaise des Parfums Perfectionnes. (See Verley, Albert, assignor.)						
Société Anonyme de Commentry-Fourchambault. (See Guillaume and Dumas, assignors.)						
Société Anonyme pour la Transmission de la Force par l'Électricité. (See Hutin and Leblanc, assignors.)						
Société Anonyme pour l'Eclairage et Le Chauffage par Le Petrole, (Brevet Bouhon.) (See Bouhon, Julien R., assignor.)						
Société Choconin et Cie. (See Conti, James F. T., assignor.)						
Société de Soudage. (See Asche, Otto, assignor.)						
Société Internationale du Gaz D'Eau, Brevets Strache, Société Anonyme. (See Strache, Hugo, assignor.)						
Société Motte-Bossut Fils et Mengers. (See Motte, Georges, assignor.)						
Société Nouvelle des Établissements, Decauville Aîné. (See Ravenèz, Louis W., assignor.)						
Society a Roudillon et Company. (See Henry, Charles, assignor.)						
Society of Chemical Industry in Basle. (See Schmid, Jakob, assignor.)						
Society of Chemical Industry in Basle. (See Weil, Hugo, assignor.)						
Soderling, August. (See Cain, Soderling, and MacKnight.)						
Söderström, John N., and O. B. Nelsson, Dunbar, Wis. Book, paper, and lamp rest	620,246	Feb. 28	2649	604	86	1380
Sohège, Paul, Paris, France. Expansible pulley	640,040	Dec. 26	3417	783, 784	89	2594
Solano, Alfred. (See Heady, George H., assignor.)						
Solar Refining Company. (See Frasch, Herman, assignor.)						
Solomon, Arthur, and J. Van Leaven, Buffalo, N. Y. Water-closet	631,097	Aug. 15	2564	580	88	1260
Solomon, Charles S., Worcester, Mass. Clothes-drier	634,222	Oct. 3	455	116	89	94
Solomon, Emmet G., Omaha, Nebr. Trolley	636,299	Nov. 7	127	28	89	947
Solomon, Isaac L. (See Miller, John H., assignor.)						
Solosth, Lars H. (See Leonard and Solosth.)						
Soltmann, Edward G. (See Classon, Walter G., assignor.)						
Solvay, Ernest, Brussels, Belgium, assignor to Solvay Process Company, Syracuse, N. Y. Apparatus for drying sodium bicarbonate	617,367	Jan. 10	982	226	86	210
Solvay Process Company. (See Solvay, Ernest, assignor.)						
Somasco, Charles, Creil, France. Apparatus for kneading dough	617,866	Jan. 17	1930	432, 433	86	416
Somers, Daniel M., *et al.* (See Atkinson, William H., assignor.)						
Somers, Daniel M., assignor to himself, J. L. and G. A. Somers, W. H. Atkinson, and E. E. Somers, New York, N. Y. Tobacco-pipe holder	627,068	June 13	1582	346	87	1938
Somers, Elmer E., *et al.* (See Atkinson, William H., assignor.)						
Somers, Elmer E., *et al.* (See Somers, Daniel M., assignor.)						
Somers, Guy A., *et al.* (See Atkinson, William H., assignor.)						
Somers, Guy A., *et al.* (See Somers, Daniel M., assignor.)						
Somers, Joseph L., *et al.* (See Atkinson, William H., assignor)						
Somers, Joseph L., *et al.* (See Somers, Daniel M., assignor.)						
Somerville, Philip, assignor to California Agitating and Leaching Machine Company, Bishop, Cal. Apparatus for extracting metals	618,622	Jan. 31	3353	745	86	714
Somerville, William, and A. Pullis, St. Louis, Mo. Vapor-lamp	639,783	Dec. 26	2957	681	89	2501
Sommer, Charles W., Aberdeen, Miss. Boiler attachment	629,216	July 18	2354	546	88	494
Sommer, George, assignor of one-third to J. F. Seltzer, Fairland, Ill. Gate	632,853	Sept. 12	1223	280	88	1966
Sommer, John. (See Sommer, Peter, J , and P. W.)						
Sommer, John, Peoria, Ill. Spool-carrier	637,901	Nov. 28	3576	749	89	1733
Sommer, John J., New York, N. Y. Manufacture of silver-lined gold tubing	626,348	June 6	246	57	87	1661
Sommer, Julius, Stuttgart, Germany. Disinfecting device for water-closets or the like	639,305	Dec. 19	2053	472	89	2302
Sommer, Peter, J., and P. W., Tremont, Ill. Wire-fabric machine	635,405	Oct. 24	2652	613, 614, 615	89	573
Sommer, Peter, J., and P. W., Tremont, Ill. Reel for wire-fabric machines	636,362	Nov. 7	226	50, 51	89	966
Sommer, Peter W. (See Sommer, Peter, J., and P. W.)						
Sommers Frank F., Detroit, Mich. Match-gathering machine	637,041	Nov. 14	1560	336, 337	89	1262
Sommers, Jacob A., Hamilton, Ohio. Rain-apron for vehicles	620,680	Mar. 7	253	52	86	1551
Sommers, John E., North Baltimore, Ohio. Bed-bottom	628,498	July 11	1021	238	88	217
Sommerville, James A., Front Royal, Va. Type-writing machine	639,912	Dec. 26	3186	732	89	2547
Sonderegger. Johan J , Arbon, assignor to Stickerei Feldmuehle, vormals Loeb, Schoenfeld & Co , Rorschach, Switzerland. Shuttle for embroidering-machines	629,278	July 18	2454	569	88	512
Sonderegger, Johan J., Arbon, assignor to Stickerei Feldmuehle, vormals Loeb, Schoenfeld & Co., Rorschach, Switzerland. Machine for inserting bobbins in shuttles	629,308	July 18	2506	584, 585, 586	88	522
Sonn, Anson L., Lansingburg, N. Y. Brush-making apparatus	637,294	Nov. 21	2069	443	89	1373
Sonneborn, Charles, and P. R. Kammerer, Braddock, Pa. Advertising apparatus	634,248	Oct. 3	522	132	89	105
Sonneborn, Siegmund B. (See Wheatfield and Reed, assignors.)						
Sonneman, Emil H. (See Nicla, Optenberg, and Sonneman.)						
Sonnex, Richard W., Barnet, assignor to Dental Manufacturing Company, Limited, London, England. Dental chair	625,425	May 23	2680	610	87	1282
Sooy, Ephraim C., Kansas City, Mo. Baling-press	624,112	May 2	305	64	87	759

Alphabetical list of patentees—Continued.

Name, residence, and invention.	No.	Date.	Monthly volume. Spec.	Monthly volume. Dr'g.	Official Gazette. Vol.	Official Gazette. Page.
Sooy, Ephraim C., Kansas City, Mo Baling-press	627,812	June 27	2973	651	87	2251
Sooy, Ephraim C., Kansas City, Mo. Ore-concentrator	631,411	Aug. 22	3124	709	88	1389
Soper, Frank C., assignor to Luxfer Prism Patents Company, Chicago, Ill. Machine for grinding prism-lights	638,189	Nov. 28	4128	872	89	1841
Soper, George T., New York, N. Y. Window-sash	639,106	Dec. 12	1684	389	89	2214
Soper, Hubbell O., Dixon, Ill. Clothes-pounder	637,531	Nov. 21	2510	544	89	1461
Sorensen, Rudolph, Ord, Nebr. Sail attachment for bicycles	639,107	Dec. 12	1685	389	89	2215
Sorenson, Christian, Round Rock, Tex. Harrow	624,558	May 9	1135	254	87	943
Sorenson, Ernest, Camden Place, Minn. Perpetual calendar	627,212	June 20	1830	401	87	2008
Sorenson, John G., Davenport, Iowa. Automatic gravity-lock for switches	626,573	June 6	641	148	87	1739
Sorlien, Theodore H., Granite Falls, Minn. Marking-stamp	623,048	Apr. 11	1547	358	87	316
Sorlle, Martin, and H. J. Bailey, New Orleans, La. Grain-drier	633,221	Sept. 19	1940	456	88	2116
Sosnowski, Kazimir M. (See Sciama and Sosnowski.)						
Sostheim, Louis E., *et al.* (See Vogel, Edward F., assignor.)						
Sotter, Jacob C., Pottstown, Pa. Machine for shaping metal plates	626,574	June 6	642	149	87	1739
Soucy, Philippe, Keewatin, Canada. Jointer	637,358	Nov. 21	2198	473, 474	89	1400
Souder, Charles H. L., Chicago, Ill. Uterine battery	635,004	Oct. 17	1880	447	89	407
Souder, Jacob J., Washington, D. C. Adjustable bearing for railway-car truss-rods	619,357	Feb. 14	1044	234	86	1034
Souder, Leamon G., Philadelphia, Pa. Moving stairway or elevator	625,905	May 30	3563	808, 809	87	1471
Soule, George H., Fairfield, assignor to Vermont Farm Machine Company, Bellows Falls, Vt. Evaporating-pan	635,876	Oct. 31	3568	821	89	763
Soulé, George W., Meridian, Miss. Heater for kilns	617,260	Jan. 3	755	176, 177	86	149
Soulé, George W., Meridian, Miss. Lumber-stacking truck	619,237	Feb. 7	828	182	86	975
Soulé, George W., Meridian, Miss. Cotton-seed huller and separator	629,016	July 18	1997	464, 465	88	426
South Bend Iron Works. (See Davis, Calvin R., assignor.)						
South Bend Iron Works. (See Oliver, James, assignor.)						
Southard, Albert W., assignor to Rubber and Celluloid Harness Trimming Company, Newark, N. J. Converting metallic lead into oxids	618,213	Jan. 24	2597	574, 575	86	556
Southard, Charles B., trustee. (See Hodges, Horace F., assignor.)						
Southard, J. B., *et al.* (See Brown, Edmond H., assignor.)						
Souther, Albert G., St. Louis, Mo. Cresting	633,622	Sept. 26	2701	628	88	2276
Southgate, Louis W., Worcester, Mass., assignor to Campbell Printing Press and Manufacturing Company, New York, N. Y. Printing-machine	639,784	Dec. 26	2959	681	89	2501
Southwark Foundry and Machine Company. (See Petsche, Gustav B., assignor.)						
Southwell, Thomas M., and T. W. Head, Bridgenorth, England. Loom for weaving moquette carpets	621,720	Mar. 21	2182	490, 491	86	1951
Southwell, Thomas M., and T. W. Head, Bridgenorth, England. Loom for weaving tufted fabrics	631,233	Aug. 15	2782	630, 631	88	1304
Southwick, Charles A., Peabody, Mass. Automatic water-feeder	626,730	June 13	940	213	87	1815
Southwick, George W., Noroton, Conn. Device for fastening belts	619,514	Feb. 14	1319	302	86	1088
Southworth, Clara M., Bridgeport, Conn. Corset	624,394	May 2	819	184	87	858
Southworth, Edward, Portland, Me. Cutting-machine	629,824	Aug. 1	115	28	88	743
Sowden, Charles R., Basin, Mont. Automatic threshold	617,662	Jan. 10	1517	344	86	315
Sowers, Rosslyn L. (See Wells, William H., assignor.)						
Sowle, Frederick L., and R. C. Hilton, New Bedford, Mass. Valve for inflation	636,465	Nov. 7	399	88	89	1001
Spalckhaver, William, assignor to R. Hoe, T. H. Mead, and C. W. Carpenter, New York, N. Y. Printing-machine	616,981	Jan. 3	212	48, 49, 50	86	42
Spalckhaver, William, assignor to R. Hoe, T. H. Mead, and C. W. Carpenter, New York, N. Y. Printing-machine	616,982	Jan. 3	217	50, 51	86	43
Spalckhaver, William, assignor to R. Hoe, T. H. Mead, and C. W. Carpenter, New York, N. Y. Duplex web-printing mechanism	627,311	June 20	2026	445	87	2048
Spalckhaver, William, assignor to R. Hoe, T. H. Mead, and C. W. Carpenter, New York, N. Y. Printing-press	627,447	June 20	2300	506, 507	87	2101
Spalckhaver, William, assignor to R. Hoe, T. H. Mead, and C. W. Carpenter, New York, N. Y. Sheet holding and straining device	629,930	Aug. 1	362	79, 80	88	793
Spalckhaver, William., assignor to R. Hoe, T. H. Mead, and C. W. Carpenter, New York, N. Y. Sheet holding and straining device	629,931	Aug. 1	365	80	88	794
Spalckhaver, William, assignor to R. Hoe, T. H. Mead, and C. W. Carpenter, New York, N. Y. Sheet holding and straining device	629,932	Aug. 1	367	80	88	795
Spalckhaver, William, assignor to R. Hoe, T. H. Mead, and C. W. Carpenter, New York, N. Y. Sheet holding and straining device	629,933	Aug. 1	370	80, 81	88	795
Spalckhaver, William, assignor to R. Hoe, T. H. Mead, and C. W. Carpenter, New York, N. Y. Late-news device for printing-machines	636,363	Nov. 7	231	51	89	967
Spalckhaver, William, assignor to R. Hoe, T. H. Mead, and C. W. Carpenter, New York, N. Y. Web-perfecting and half-tone printing-machine	636,861	Nov. 14	1201	259, 260	89	1192
Spalckhaver, William, assignor to R. Hoe, T. H. Mead, and C. W. Carpenter, New York, N. Y. Printing-machine	636,862	Nov. 14	1203	260, 261	89	1192
Spalckhaver, William, assignor to R. Hoe, T. H. Mead, and C. W. Carpenter, New York, N. Y. Inking apparatus	636,863	Nov. 14	1207	261	89	1193
Spalding, Frank, and E. C. Thurston, assignors to Brown & Sharpe Manufacturing Company, Providence, R. I. Micrometer-calipers	626,876	June 13	1251	275	87	1874
Spalding, George, and J. S. Robbins, assignors to Spalding-Robbins Disc Plow Company, San Francisco, Cal. Rotary-disk plow	629,137	July 18	2227	516, 517	88	471
Spalding, George, and J. S. Robbins, assignors to Spalding-Robbins Disc Plow Company, San Francisco, Cal. Rotary-disk plow	629,138	July 18	2230	517	88	471
Spalding, Homer A., Marlborough, Mass. Sled	628,863	July 11	1713	401	88	354
Spalding, John, Ilse, Colo. Fire-escape	639,455	Dec. 19	2349	542	89	2361
Spalding-Robbins Disc Plow Company. (See Spalding and Robbins, assignors.)						
Sparks, Henry O., Monroe county, Mo. Door or gate closer	618,446	Jan. 31	3045	673	86	655
Sparks, James N., *et al.* (See Cowper-Coles, Sherard O., assignor.)						
Sparks, Laban, *et al.* (See Pagett, Charles H., assignor.)						
Sparks, Thomas J., Magalia, assignor of one-half to F. M. Austin, San Francisco, Cal. Pump	638,890	Dec. 12	1306	297	89	2141
Sparks, William E., assignor to Sargent & Company, New Haven, Conn. Lock	623,264	Apr. 18	1983	454	87	415
Sparling, William F. (See Reese, Henry D., assignor.)						
Sparr, Benjamin F., London, England, assignor to M. Sparr, New York, N. Y. Nut-lock	637,426	Nov. 21	2322	501	89	1425
Sparr, Mary. (See Sparr, Benjamin F., assignor.)						
Sparre, Pierre A., London, England. Elastic tire and rim for wheels	637,174	Nov. 14	1832	392	89	1312
Sparrow, George B., Liscard, England. Loading-magazine	619,848	Feb. 21	1950	442	86	1235
Spates, Charles. (See Lewis and Spates.)						
Spaulding, Algenon S., Bloomsburg, Pa. Flexible-curtain construction	634,072	Oct. 3	149	39	89	34

Alphabetical list of patentees—Continued.

Name, residence, and invention.	No.	Date.	Monthly volume. Spec.	Monthly volume. Dr'g.	Official Gazette. Vol.	Official Gazette. Page.
Spaulding, Amasa J., assignor of one-half to G. H. Bell, Silver City, N. Mex. Ter. Fastening device for straps	624,559	May 9	1137	255	87	943
Spaulding Brothers Company. (See Sawin and Putnam, assignors.)						
Spaulding, Grace E. (See Spaulding, Wesley L., assignor.)						
Spaulding, Lewis, Howard, N. Y. Wagon-tongue attachment	624,395	May 2	820	185	87	858
Spaulding, Wesley L., assignor to G. E. Spaulding, Manchester, N. H. Letter-copying press	633,665	Sept. 26	2769	643	88	2290
Spawn, Frederick, Newburg, N. Y. Ash-sifter	630,943	Aug. 15	2267	517	88	1203
Speagh, Charles D., Dayton, Ohio. Truss	624,113	May 2	316	65	87	760
Speaks, Cornelius B., Weaver, Kans. Potato-grading machine	635,406	Oct. 24	2687	616	89	579
Spear, Albert M. (See Burnham, Arthur M., assignor.)						
Spear, William T. (See Raby and Spear.)						
Specht, Eugene T., assignor of one-half to E. A. Eastman, Chicago, Ill. Suspenders	638,428	Dec. 5	464	95	89	1955
Specht, Leopold. (See Erban and Specht.)						
Speer, Abram C., Woodville, Oreg. Pile-driver	628,962	July 18	1903	442	88	407
Speer, Eben R. and W. T., and E. E. Hyatt, Woodlawn, assignors to J. C. Riner, Gratis, and A. Krekler, West Elkton, Ohio. Breeding and operating crate	625,277	May 16	2411	546	87	1204
Speer, Garret F., Canisteo, N. Y. Acetylene-gas generator	625,426	May 23	2681	611	87	1282
Speer, William. (See Buddenbohn and Speer.)						
Speer, William H., Jr., *et al.* (See Cooper, James G., assignor.)						
Speer, William T. (See Speer and Hyatt.)						
Speiden, Edgar, Jr., Washington, D. C. Traveling test apparatus	616,983	Jan. 3	221	51,52	86	44
Speirs, Albert S., Chicago, Ill., assignor, by mesne assignments, to Degen-Breckenkamp Manufacturing Company, Washington, Mo. Tobacco-pipe	638,771	Dec. 12	1102	247	89	2102
Speirs, John, Jersey City, N. Y. Door-check	622,556	Apr. 4	673	157	87	128
Speirs, John C., Worcester, Mass. Pipe-wrench	639,785	Dec. 26	2964	681	89	2503
Spelman, Mark R., New Orleans, La. Sugar-cane wagon	617,198	Jan 3	640	149	86	126
Spenard, Marie L., Duluth, Minn. Garment-stretcher	633,050	Sept. 12	1569	365	88	2030
Spence, Charles A., Assumption, Ill. Bridle-bit	635,877	Oct 31	3569	821	89	763
Spence, Francis M., Manchester, England. Treating sewage for obtaining fertilizers	622,401	Apr. 4	341	------	87	64
Spence, Hugh K. (See Beveridge and Spence.)						
Spence, John, Erie, Pa. Rotary engine	621,721	Mar. 21	2185	491	86	1951
Spence, Watson, and J. Nolan, Philadelphia, Pa. Piston	632,970	Sept. 12	1402	324	88	1998
Spence, William H., Fairmount, Ind. Combination pocket-tool	618,241	Jan. 24	2651	586	86	566
Spencer, Clarence E., and J. T. Pethick, Carbondale, Pa. Burglar-alarm	633,396	Sept. 19	2276	536	88	2180
Spencer & Co. (See Keyes and Spencer, assignors.)						
Spencer & Co. (See Spencer, James H., assignor.)						
Spencer, George F., Newark, N. J. Reflector for art-galleries	619,849	Feb. 21	1951	443	86	1235
Spencer, Harvey, Jr., New York, N. Y., assignor to M. L. Spencer. Blind-fastening device	621,588	Mar. 21	1935	433	86	1901
Spencer, Ira H., assignor to L. E. Rhodes Company, Hartford, Conn. Fluid-pressure regulator	622,025	Mar. 28	2774	626	86	2079
Spencer, James B., assignor to E. C. Stearns & Co., Syracuse, N. Y. Back-pedaling brake	625,709	May 23	3166	718 / 719	87	1378
Spencer, James H. (See Keyes and Spencer.)						
Spencer, James H., assignor to Spencer & Co., New York, N. Y. Telephone-transmitter	624,696	May 9	1369	306	87	388
Spencer, James H., assignor to Spencer & Co., New York, N. Y. Telephone-transmitter	624,697	May 9	1371	306	87	988
Spencer, Joseph W., Eufala, Ala., and E. R. Layfield, Macon, Ga. Railway-jack	622,557	Apr. 4	675	157	87	128
Spencer Lens Company. (See Gaylord, Harvey R., assignor.)						
Spencer, Mary L. (See Spencer, Harvey, Jr., assignor.)						
Spencer, Oliver H. P. G., assignor of two-thirds to E. H. Zigler and W. M. Quinn, Mount Carmel, Ill. Car-seal	632,593	Sept. 5	697	161	88	1844
Spencer, Oliver M. (See Lee, John H., assignor.)						
Spencer Optical Manufacturing Company. (See Meigs, George W., assignor.)						
Spencer, R. W., *et al.* (See Faulkner, James J., assignor.)						
Spencer, William B., Chicago, Ill. Cushion attachment for bicycles	628,864	July 11	1715	401	88	354
Spencer, William B., Chicago, Ill. Spring-frame bicycle	635,028	Oct. 17	1919	457	89	414
Spera, William M., Columbia, Pa. Chemical fire-extinguisher	619,096	Feb. 7	565	120	86	921
Sperber, Norbert, Göppingen, Germany. Counter mechanism for metal-working machines	628,043	July 4	152	31,32	88	31
Sperber, Rudolf, Seattle, Wash. Station-indicator	618,298	Jan. 24	2748	609 / 610	86	585
Sperle, Charles H., New York, N. Y. Bicycle driving-gear	629,622	July 25	3116	725	88	662
Sperry, Ellie N. (See Hobbs and Sperry.)						
Sperry, Elmer A., assignor to Cleveland Machine Screw Company, Cleveland, Ohio. System and apparatus for controlling electric vehicles	635,815	Oct. 31	3440	794	89	739
Sperry, Elmer A., assignor to Cleveland Machine Screw Company, Cleveland, Ohio. System and apparatus for controlling vehicles	635,816	Oct. 31	3449	794 / 795	89	741
Spery, Charles F., assignor to C. M. Giddings, Rockford, Ill. Belt-fastening tool	637,902	Nov. 28	3578	749	89	1733
Spicer, Frank, and W. Snyder, Lancaster, Pa Apparatus for raising or lowering invalids	633,051	Sept. 12	1570	366	88	2031
Spicer, Vibe K., Kenilworth, Ill., assignor to Union Switch and Signal Company, Swissvale, Pa. Switch and signal mechanism	628,636	July 11	1320	307 / 308	88	275
Spicer, Vibe K., Kenilworth, Ill., assignor to Union Switch and Signal Company, Swissvale, Pa. Switch and signal mechanism	628,637	July 11	1323	308	88	275
Spicer, Vibe K., Kenilworth, Ill., assignor to Union Switch and Signal Company, Swissvale, Pa. Switch and signal mechanism	628,638	July 11	1324	308	88	275
Spickler, Preston E., Byron, Ill. Tension device	617,516	Jan. 10	1241	283	86	262
Spiecker, Gustav, Bonn, Germany, assignor of one-half to G. Hüttemann, Brux, Austria-Hungary. Manufacture of fuel	617,867	Jan. 17	1933	------	86	416
Spiecker, Gustav E., Barmen, Germany. Apparatus for making trimmings	619,358	Feb. 14	1045	235	86	1034
Spiegel, William, Newport, Ky. Hanger device for steam-boilers	621,167	Mar. 14	1181	256	86	1743
Spier, Max, assignor to E. S. Ullmann, trustee, New York, N. Y. Manufacture of igniters for gas-burners	620,511	Feb. 28	3091	707	86	1465
Spier, Max, assignor to E. S. Ullmann, trustee, New York, N. Y. Gas-lighting device	620,557	Feb. 28	3202	733	86	1486
Spiers, William, Leicester, England. Knitting-machine	617,820	Jan. 17	1846	412 / 413	86	399
Spiers, William, Leicester, England. Knitting-machine	621,478	Mar. 21	1744	388	86	1864
Spies, Peter H. F., New York, assignor of two-thirds to J. Durfee, New York, and C. G. Durfee, Yonkers, N. Y. Electric-arc lamp	639,786	Dec. 26	2965	682	89	2503
Spieth, G. F. (See Fisher, Stephen, assignor.)						
Spigelmyer, Ammon B., Bannerville, Pa. Post-hole digger	636,466	Nov. 7	400	89	89	1001
Spiller, Bradbury G. (See Woodworth, Henry C., assignor.)						
Spillman, Charles O. (See Slinkman, John H., assignor.)						
Spindler, Valentine, Saginaw, Mich. Stove	639,624	Dec. 19	2643	607	89	2421
Spink, Harlow E., assignor of one-half to R. Taylor, Oswego, N. Y. Car-step	619,800	Feb. 21	1867	426	86	1217

Alphabetical list of patentees—Continued.

Name, residence, and invention.	No.	Date.	Monthly volume. Spec.	Monthly volume. Drg.	Official Gazette. Vol.	Official Gazette. Page.
Spinney, Henry C., Lynn, Mass., assignor to General Electric Company, of New York. Clutch for electric-arc lamps	631,339	Aug. 22	2997	679	88	1364
Spiral Nut Lock Company. (See Stark, Frank G., assignor.)						
Spires, Elmer, Coffeyville, Kans. Wagon-brake	629,017	July 18	2000	466	88	427
Spiro, Charles, New York, N. Y. Type-writer-ribbon feed mechanism	619,027	Feb. 7	443	93	86	896
Spiro, Charles, New York, N. Y. Type-writer	620,808	Mar. 7	503	107 108	86	1600
Spiro, Charles, New York, N. Y. Type-bar bracket	631,412	Aug. 22	3126	709	88	1389
Spiro, Charles, New York, N. Y. Ribbon-feed mechanism for type-writers	631,413	Aug. 22	3128	709 710	88	1389
Spitzer, Maurice, Chicago, Ill. Cutting and folding machine	618,016	Jan. 17	2192	490 491	86	466
Spoerl, Christian S. E., Scranton, Pa. Machine for making tufted fabrics	622,901	Apr. 11	1296	299	87	264
Spofford, Arthur C., Groveland, Mass. Register	628,556	July 11	1144	266 267	88	241
Spohn, James H., Philadelphia, Pa. Cooking stove or range	618,914	Feb. 7	164	35	86	837
Sponenburgh, Charles L. (See Coats and Sponenburgh.)						
Sponsel, Charles W., Hartford, Conn. Door-holding device	628,366	July 4	782	182	88	150
Spoo, John, *et al.* (See Hart and Pancoast, assignors.)						
Spoore, Ransom R., Newark, assignor of one-half to J. M. Raub, New York, N. Y. End post and brace for wire fences	625,278	May 16	2413	546	87	1204
Spoore, Ransom R., Newark, assignor of one-half to J. M. Raub, New York, N. Y. Wire-fence stay	625,279	May 16	2414	547	87	1204
Sporer, Florian, Cham, Germany. Glass cooling or annealing oven	636,078	Oct. 31	4000	914	89	848
Spotless Steam Sponger Co. (See Bray, Albert, assignor.)						
Spracklen, Peter J., assignor to B. W. Thomson, Kenton, Ohio. Merry-go-round	617,609	Jan. 10	1424	324	86	296
Spradling, James O. (See Jennings and Spradling.)						
Sprado, Ralph, Chicago, Ill. Cut-off mechanism for engines	624,698	May 9	1372	306	87	989
Sprague, Abraham L., Milton, assignor to himself, F. M. Rollins, Neponset, and W. R. May, Newton, Mass. Car-replacer	633,739	Sept. 26	2905	674	88	2317
Sprague, Abraham L., Milton, Mass., assignor to Sprague Car Appliance Company, Portland, Me. Car-track-sanding device	639,625	Dec. 19	2644	607	89	2421
Sprague, Arthur W., Austin, Ill., assignor, by mesne assignments, to American Steel and Wire Company, of New Jersey. Latch	634,593	Oct. 10	1158	275 276	89	248
Sprague Car Appliance Company. (See Sprague, Abraham L., assignor.)						
Sprague, Charles A., and B. W. Seymour, Stockton, N. Y. Fruit-basket	621,381	Mar. 21	1566	347	86	1830
Sprague Electric Company. (See Lundell, Robert, assignor.)						
Sprague, Frank J., assignor to Howard Thermostat Company, Oswego, N. Y. Automatic damper and valve regulator	637,175	Nov. 14	1833	392 393	89	1312
Sprague, James H., Norwalk, Ohio. Illuminator	623,576	Apr. 25	2545	585	87	546
Sprague, James H., Norwalk, Ohio. Umbrella-stick	631,942	Aug. 29	4090	918	88	1588
Sprague, Jesse O. (See Knapp, Willard H., assignor.)						
Sprague, Myron E., Plymouth Union, Vt. Acetylene-gas generator	618,299	Jan. 24	2751	610	86	585
Sprague, Nathan H., Lonsdale, R. I. Toy	623,635	Apr. 25	2643	603 604	87	563
Sprague, Otho N. (See Underwood and Sprague.)						
Sprague, Rufus F., Greenville, Mich. Hand potato-planter	634,483	Oct. 10	966	231 232	89	211
Sprain, John F., New York, N. Y. Powder-distributing can	622,285	Apr. 4	155	36	87	32
Spraker, Henry G., Rich Hill, Mo. Hame-strap	618,745	Jan. 31	3578	798	86	759
Sprankle, Edward, Kendallville, Ind. Tank-heater	617,428	Jan. 10	1098	250	86	233
Spratley, William J. (See Grayson and Spratley.)						
Sprickerhoff, George, assignor of one-half to T. Haebler, New York, N. Y. Fireproof structure	623,438	Apr. 18	2288	523	87	478
Sprickerhoff, George D. C., assignor of one-half to T. Haebler, New York, N. Y. Slab	622,026	Mar. 28	2777	626	86	2080
Spring, Mertie O., Philadelphia, Pa. Conduit for electrical conductors	632,973	Sept. 12	1439	333 334	88	2005
Springer, D. J., *et al.* (See Hards, Edward, assignor.)						
Springer, Franklin. (See Miller, Joseph H., assignor.)						
Springer, Thomas L. (See Morrison and Springer.)						
Springer Torsion Balance Company. (See Brown, John S., assignor.)						
Springer, William A., Sturgeon, Pa. Pumping apparatus for deep wells	618,623	Jan. 31	3354	746	86	714
Springer, William N., Peoria, Ill. Pneumatic stacker	639,187	Dec. 12	1833	422	89	2242
Springfield Silver Plate Company. (See Reama, Washington H., assignor.)						
Springsteen, Nelson E., Royal Oak, Mich. Ticket-holder	632,070	Aug. 29	4339	975	88	1636
Sprinkel, James A., Chicago, Ill. Fireproof awning and curtain	623,385	Apr. 18	2198	504	87	459
Spromer, John D. (See Pettit, George, Jr., assignor.)						
Sproule, Robert F., London, England. Stamping-press	640,041	Dec. 26	3419	784	89	2594
Spruce, Clifford J. (See Deknatel and Spruce.)						
Spruill, William R., Sr., and William R., Jr., Edenton, N. C. Ball-bearing for vehicle-wheels	634,150	Oct. 3	313	79	89	66
Spry, Franklin B., Plymouth, Pa. Expanding auger	627,659	June 27	2708	594	87	2198
Spühl, Heinrich, St. Gallen, Switzerland. Chain-welding machine	619,850	Feb. 21	1954	443 444	86	1236
Spurr, Arthur H., Creston, Iowa. Adjusting device between tripods and cameras of photographic apparatus	631,031	Aug. 15	2440	554	88	1236
Spurr, Foster M., Boston, Mass. Printing-machine	637,359	Nov. 21	2201	474	89	1400
Spurr, Henry F., Jr., Boston, Mass. Auxiliary pedal for pianos	628,963	July 18	1905	443	88	408
Spurrier, Harry, Montreal, assignor of one-half to C. W. Pearson, Westmount, Canada. Retort	632,794	Sept. 12	1119	257 258	88	1944
Squier, Charles E., and F. Windham, London, England. Tire	620,985	Mar. 14	847	186	86	1678
Squier, George A., Cleveland, Ohio. Mounting for eyeglasses	631,533	Aug. 22	3351	762	88	1435
Squier, George O. (See Crehore and Squier.)						
Squire, Charles A., Haverhill, Mass. Sole-edge-trimming machine	625,068	May 16	2038	458	87	1135
Squire, Ettie M., Peckville, Pa. Window-sash	628,865	July 11	1718	401	88	354
Squire, Samuel, Westfield, and A. Knowles, New Bedford, Mass. Street-indicating device for street-cars	633,623	Sept. 26	2702	628 629	88	2276
Squires, Arthur C., assignor to I. B. Kleinert Rubber Company, New York, N. Y. Dress-shield	632,883	Sept. 12	1299	298	88	1977
St. Clair, Lawrence, assignor of two-thirds to W. H. Ward, Manchester, N. H. Ash-sifting coal-hod	632,884	Sept. 12	1300	298	88	1978
St. Clair, Theodore A., assignor to J. B. Wilson, Philadelphia, Pa. Reducing-valve	623,577	Apr. 25	2548	585	87	546
St. Denis, George H. (See Cameron, Robert, assignor.)						
St. Gemmes, Frank. (See Frank and St. Gemmes.)						
St. Jean, Joseph A., Cheboygan, assignor of one-half to P. L. Millen, Detroit, Mich. Bier	638,075	Nov. 28	3884	818	89	1793

Alphabetical list of patentees—Continued.

Name, residence, and invention.	No.	Date.	Monthly volume. Spec.	Monthly volume. Dr'g.	Official Gazette. Vol.	Official Gazette. Page.
St. John, Garland B., Kalamazoo, assignor to J. D. Wilson, Battle Creek, Mich. Potato-masher	628,998	July 18	1968	457	88	420
St. John, William G., Sunderland, Canada. Pea-harvester	635,064	Oct. 17	1990	471	89	429
St. John, William W., Binghamton, N. Y. Clothes-drier	622,982	Apr. 11	1434	330	87	293
St. Louis, Philip M., Carmel, Wis. Roller-bearing	633,053	Sept. 12	1573	366	88	2031
St. Martin, Xavier, *et al.* (See Boudreaux, Paul O. E., assignor.)						
St. Mary, Joseph, assignor, by mesne assignments, to Eureka Iron Company, San Francisco, Cal. Steam-trap	635,703	Oct. 24	3216	741	89	683
St. Peter, Louis, Springfield, Mass. Apparatus for perfecting combustion in boiler-furnaces	631,829	Aug. 29	3896	871	88	1551
St. Peter, Louis, assignor to W. H. Gray, Springfield, Mass. Engine stop mechanism	633,090	Sept. 12	1664	392	88	2050
Staahlgren, Karl, Salinas, Cal. Mineral-extracting machine	631,680	Aug. 22	3617	815	88	1488
Stabe, Jacob, Cleveland, Ohio. Roller reciprocating valve	637,835	Nov. 28	3440	719	89	1705
Stacher, L. N. (See Jewell, Johnson A., assignor.)						
Stackhouse, T. Bascomb, *et al.* (See Johnson, Henry P., assignor.)						
Stäckig, Johan A., and O. Carlson, Stockholm, Sweden. Weighing apparatus	637,042	Nov. 14	1563	337	89	1263
Stäckig, Johan A., and O. Carlson, Stockholm, Sweden. Weighing apparatus	639,108	Dec. 12	1687	389	89	2215
Stäckig, Johan A., and O. Carlson, Stockholm, Sweden. Weighing apparatus	639,109	Dec. 12	1688	390	89	2215
Stackpole, Charles F., Lynn, Mass. Leather-staking machine	617,368	Jan. 10	983	226	86	210
Stadtfeld, Charles, assignor of one-half to G. Driggs, Dayton, Ohio. Street-railway switch	622,724	Apr. 11	978	227, 228	87	205
Stafford, Charles S., assignor of one-third to T. Leach, San Francisco, Cal. Advertising device	619,052	Feb. 7	486	102	86	904
Stafford, Charles S., assignor of one-half to J. H. Blakeway, San Francisco, Cal. Ratchet-drill	634,594	Oct. 10	1159	276	89	248
Stafford, Frank R., Providence, R. I. Apparatus for manufacturing door-plates or signs	627,542	June 27	2485	546	87	2154
Stafford, George W., Providence, R. I., assignor to Crompton & Knowles Loom Works, Worcester, Mass. Indicating device for dobbies for looms	619,909	Feb. 21	2056	466	86	1254
Stafford, George W., assignor to Crompton & Knowles Loom Works, Providence, R. I. Bottom board for jacquard-machines	626,941	June 13	1360	299	87	1896
Stafford, George W., assignor to Crompton & Knowles Loom Works, Providence, R. I. Dobby for looms	634,632	Oct. 10	1221	290	89	260
Stafford, George W., and A. E. Kelmel, Providence, R. I., assignors to Crompton & Knowles Loom Works, Worcester, Mass. Double-action jacquard-machine	620,372	Feb. 28	2872	657, 658	86	1423
Stafford, George W., and A. E. Kelmel, Providence, R. I., assignors to Crompton & Knowles Loom Works, Worcester, Mass. Double-action jacquard-machine	621,544	Mar. 21	1866	414	86	1887
Stafford, George W., and A. E. Kelmel, Providence, R. I., assignors to Crompton & Knowles Loom Works, Worcester, Mass. Open-shed jacquard-machine	621,949	Mar. 28	2626	592	86	2049
Stafford, George W., and A. E. Kelmel, Providence, R. I., assignors to Crompton & Knowles Loom Works, Worcester, Mass. Double-action jacquard-machine	625,208	May 16	2275	517, 518	87	1179
Stafford, George W., and A. E. Kelmel, Providence, R. I., assignors to Crompton & Knowles Loom Works, Worcester, Mass. Double-action jacquard-machine	625,476	May 23	2762	629	87	1297
Stafford, James J., Rochester, N. Y. Bicycle propulsion	625,906	May 30	3566	809	87	1472
Stäge, Albert, and C. Tornow, Spandau, Germany. Apparatus for heating water	632,854	Sept. 12	1225	280	88	1966
Stage, Joseph B., Talbot, Mich. Rotary valve	630,124	Aug. 1	745	160	88	871
Stahl, Adolf, Sweet Home, assignor of one-half to C. and G. Sengelmann, Schulenburg, Tex. Corn-husker	631,881	Aug. 29	3991	892	88	1569
Stahl, Edward, New York, N. Y. Conformator	634,374	Oct. 3	768	183, 184	89	152
Stahl, Herman, *et al.* (See Welch and Dickey, assignors.)						
Stahl, Karl M., assignor of one-half to R. von Schlemmer, New York, N. Y., and C. Ferrari, Hoboken, N. J. Siphon for dispensing carbonated liquids	621,866	Mar. 28	2471	552	86	2022
Stahle, William C., and T. Mills, Cleveland, Ohio; said Mills assignor to said Stahle. Letter-file	634,545	Oct. 10	1079	257	89	233
Stahmann, William J., Weaver, Minn. Sleigh-knee	630,633	Aug. 8	1742	390	88	1075
Staib, Gustav, New York, N. Y. Store-service apparatus	627,603	June 27	2608	574	87	2178
Stainback, William E., Memphis, Tenn. Device for measuring fiber-length of cotton	622,725	Apr. 11	981	228	87	206
Stalder, Harry C. and W. B., assignors of one-half to L. D. York, Portsmouth, Ohio. Truck-frame	640,042	Dec. 26	3420	785	89	2595
Stalder, Wirt B. (See Stalder, Harry C. and W. B.)						
Staley, Robert C. Burton-on-Trent, England. Kiln for burning earthenware, &c.	629,825	Aug. 1	116	28	88	743
Stall, W. W., *et al.* (See Farmer, James D., assignor.)						
Stambaugh, Samuel R., Chattanooga, Tenn. Apparatus for mining precious metals	633,397	Sept. 19	2276	536	88	2181
Stambaugh, William A., Effingham, Ill. Controller for electrical train-signaling apparatus	624,396	May 2	822	185	87	858
Stamm, Ernst W., St. Louis, Mo. Elastic-tread horseshoe	639,201	Dec. 12	1858	428	89	2248
Stamm, Henry, Plauen, assignor to A. Hellmann, Berlin, Germany. Flat-bed perfecting-press	628,557	July 11	1147	267, 268	88	241
Stamm, Spencer W. (See Bartlett, Jacobus, and Stamm.)						
Stammler, Frederick W., Johnstown, Pa. Coke-loader	637,427	Nov. 21	2323	501	89	1425
Stanbridge, Samuel, assignor of one-half to S. Shorter, London, England. Scutching-machine	619,359	Feb. 14	1046	235	86	1034
Stanburrough, Charles M., *et al.* (See Van Etten and Berry, assignors.)						
Standard Acetylene Gas Company. (See Gustine, Franklin J., assignor.)						
Standard Air Brake Company. (See Merriam and Wessels, assignors.)						
Standard Automatic Gas Engine Company. (See Raymond, John W., assignor.)						
Standard Ball Bearing Caster Company. (See Grove, Ralph M., assignor.)						
Standard Fire-Proofing Company. (See Lyle, Robert W., assignor.)						
Standard Gas Engine Company. (See Murray, Peter, assignor.)						
Standard Gas Machine Company. (See Faulkner, James J., assignor.)						
Standard Gauge and Manufacturing Company. (See Cook, Herbert F., assignor.)						
Standard Harrow Company. (See Whipple, Effinger E., assignor.)						
Standard Lithographing Company of the City of New York. (See Cowles, Arthur B., assignor.)						
Standard Machinery Company. (See Cross, Frank L., assignor.)						
Standard Machinery Company. (See Mansfield, James W., assignor.)						
Standard Machinery Company. (See Philpott and Briggs, assignors.)						
Standard Railroad Signal Company. (See Johnson, Henry, assignor.)						
Standard Railroad Signal Company. (See Keeler, Thaddeus B., assignor.)						
Standard Railroad Signal Company. (See Potter, Hobert B., assignor.)						
Standard Rivet Company. (See Barber, Everett A., assignor.)						
Standard Sewing Machine Company. (See Diehl, Jacob, assignor.)						
Standard Sewing Machine Company. (See Mills, Daniel, assignor.)						
Standard Varnish Works. (See Rosenberg, Herman, assignor.)						
Standard Voting Machine Company. (See Gillespie, Alfred J., assignor.)						
Standfield, Edwin R., Hawthorn, Victoria. Collapsible fly-proof dish-cover	638,651	Dec. 5	868	189	89	2033

Alphabetical list of patentees—Continued.

Name, residence, and invention.	No.	Date.	Monthly volume.		Official Gazette.	
			Spec.	Dr'g.	Vol.	Page.
Standing, Amos W. (See McLeod, Nelson W., assignor.)						
Standing, Amos W., St. Louis, Mo. Railway-tariff, &c	627,358	June 20	2113	467 468	87	2064
Standish, Myles, New York, N. Y. Fire-escape	637,532	Nov. 21	2511	545	89	1462
Stanek, Lucian, Boston, Mass. Stopper for ink-wells, &c	639,913	Dec. 26	3189	733	89	2547
Stanek, Lucian, and H. Axt, Boston, Mass. Antispilling vessel	618,624	Jan. 31	3356	746	86	715
Stanford, Claud L. (See Pool, Benjamin L., assignor.)						
Stanford, Edward C. C., Dalmuir, Scotland. Device for making infusions	629,878	Aug. 1	236	52	88	766
Stange, William C., Yates Centre, Kans. Wire gate	631,478	Aug. 22	3249	737	88	1414
Stanger, Henry, Ulm, Germany. Electrotherapeutic bath	633,164	Sept. 19	1822	428	88	2092
Stanier, Francis T. T., Chilliwack, Canada. Supplemental seat for bicycles	621,722	Mar. 21	2186	491	86	1951
Stanley Electric Manufacturing Company. (See Smith and Baughman, assignors.)						
Stanley, Francis E. and F. O., Newton, Mass. Burner for steam-generators	637,176	Nov. 14	1836	393	89	1312
Stanley, Francis E. and F. O., Newton, Mass. Vaporizing attachment for burners	637,428	Nov. 21	2325	501 502	89	1426
Stanley, Frank E. and F. O., Newton, Mass. Carbureter	632,376	Sept. 5	301	70	88	1766
Stanley, Frank E. and F. O., Newton, Mass. Carbureter	632,377	Sept. 5	308	70,71	88	1768
Stanley, Fred D., *et al.* (See Cunningham, Patrick, assignor.)						
Stanley, Frederick E., and F. E. Warner, assignors to Scovill Manufacturing Company, Waterbury, Conn. Machine for setting buttons	639,456	Dec. 19	2351	542	89	2362
Stanley, Freelan O. (See Stanley, Francis E. and F. O.)						
Stanley, Freelan O. (See Stanley, Frank E. and F. O.)						
Stanley, George C., Ithaca, N. Y. Photographic-plate holder	620,373	Feb. 28	2875	658	86	1424
Stanley, George C., assignor of one-half to D. S. Barns, Ithaca, N. Y. Lock	618,486	Jan. 31	3109	688	86	668
Stanley, George E., Whitman, assignor of one-half to J. E. Miles, Boston, Mass. Emergency-brake for cars or vehicles	630,271	Aug. 1	989	218	88	918
Stanley, Henry I., Berkshire, Vt. Horseshoe-calk sharpener	639,457	Dec. 19	2354	543	89	2362
Stanley, John C. W., London, England. Apparatus for drying wheat, &c	637,903	Nov. 28	3579	749	89	1734
Stanley, Merritt F., Northville, Mich. Spring air-gun	627,764	June 27	2889	631	87	2235
Stanley, Nelson D., Essex Junction, Vt. Meat-tenderer	633,740	Sept. 26	2906	674	88	2317
Stanley, Nelson D., assignor of one-half to F. W. and G. M. Gove, Essex, Vt. Pitman	626,106	May 30	4001	912	87	1551
Stanley, Reginald, Nuneaton, England. Machinery for molding, pressing, and delivering tiles, &c	628,996	July 18	1963	456 457	88	419
Stanley Works. (See Burns, Edward. assignor.)						
Stanley Works. (See Hart, William H., assignor.)						
Stanley Works. (See Smart, George E., assignor.)						
Stantial, Otis T., Chicago, Ill. Automatically-releasing valve-locking mechanism	620,681	Mar. 7	254	52	86	1551
Stanton, Gilbert A., Newcomb, N. Y., assignor of one-fourth to G. E. Terry, Waterbury, Conn. Halter-grip	638,995	Dec. 12	1509	346	89	2180
Stanton Iron Works Company. (See Chambers, Frederick, assignor.)						
Stanton, John H. (See Cashin, Daniel J., assignor.)						
Stanton, Lafayette F., Oneonta, N. Y. Vehicle-axle	631,534	Aug. 22	3353	763	88	1435
Stanton, Lafayette F., Oneonta, N. Y. Axle for carriages or wagons	634,151	Oct. 3	314	80	89	66
Stanton, Robert L., Providence, R. I. Advertising attachment for music-boxes	624,397	May 2	824	186	87	859
Stapelmann, Hermann, Shawnee, Ohio. Drilling-machine	632,594	Sept. 5	698	161	88	1844
Stapf, Julian, Chicago, Ill. Firearm	626,310	June 6	165	40	87	1645
Staples, George T., Dedham, Mass. Packing for rods and plungers	633,624	Sept. 26	2704	629	88	2276
Stapleton, John A. (See Muldoon, Charles J., assignor.)						
Staplin, Alvin M. (See Staplin, Wayland D., W. M., and A. M.)						
Staplin, Wayland D., W. M., and A. M., Hutchins, Iowa. Wind-engine	618,807	Jan. 31	3686	825 826	86	781
Staplin, William M. (See Staplin, Wayland D., W. M., and A. M.)						
Stapp, David W., Phillipsburg, Kans Apparatus for burning smoke, gas, &c	635,878	Oct. 31	3570	821	89	763
Stapp, Frederick, Denver, Colo Prospector's knockdown camp-stove	620,258	Feb. 28	2674	613	86	1385
Stapp, William A. (See Henderson and Stapp.)						
Star Bucket Pump Company. (See Bartliff, Charles A., assignor.)						
Star Electric Company. (See Beach, Clarence E., assignor.)						
Star Incubator and Brooder Company. (See McFetridge, George A., assignor.)						
Star Manufacturing Company. (See Murphy, Barney, assignor.)						
Star Manufacturing Company. (See Taylor, Lincoln, assignor.)						
Star Novelty Company. (See Williams, Charles M., assignor.)						
Stark, Ferdinand, assignor of one-third to E. N. Dickerson, New York, N. Y. Preserving foods	619,446	Feb. 14	1204	------	86	1063
Stark, Frank G., assignor to Spiral Nut Lock Company, New York, N. Y. Nut-lock	637,360	Nov. 21	2206	475	89	1402
Stark, Frank H. (See Graham, McGee, and Stark.)						
Stark, Frank H., Elyria, Ohio. Car-coupling	620,374	Feb. 28	2876	658	86	1424
Stark, Gustaf A., Kensington, Minn. Wagon-brake	635,358	Oct. 24	2555	594	89	553
Stark, Josef, Neuburg, Germany. Photographic-plate-changing apparatus	622,402	Apr. 4	343	78,79	87	64
Stark, Le Claire, Milwaukee, Wis. Panoramic camera	621,545	Mar. 21	1869	414 415	86	1887
Starke, Ashton, Richmond, Va. Pump valve and cylinder	617,912	Jan. 17	2026	453	86	433
Starke, August L., New York, N. Y. Method of and apparatus for cleaning nails	631,133	Aug. 15	2623	594	88	1272
Starke, Frederick W. (See Merrill and Lepper, assignors.)						
Starkey, Frank E. (See Gay, George L., assignor.)						
Starkey, Sydney, East Liverpool, Ohio. Shoe-fastening	633,919	Sept. 26	3201	746	88	2377
Starks, Nils O., assignor to Fuller & Johnson Manufacturing Company, Madison, Wis. Wheeled plow	616,984	Jan. 3	227	52	86	44
Starks, Nils O., assignor to Fuller & Johnson Manufacturing Company, Madison, Wis. Cultivator	616,985	Jan. 3	230	53	86	45
Starley, John K., Coventry, England. Driving-gear	628,169	July 4	395	93	88	80
Starling, Miles H., Lowell, Ohio. Wire-fence machine	626,107	May 30	4002	912 913	87	1551
Starr, George B. (See Ford and Starr.)						
Starr, John E., St. Louis, Mo. Pressure and temperature regulator for feed-lines of refrigerating apparatus	624,560	May 9	1138	255	87	943
Starr, Sydney B. (See Fuller, John E., assignor.)						
Starrett, Ferdinand M., Silverton, Oreg. Fruit grader, dipper, and spreader	628,866	July 11	1719	401 402	88	355
Starrett, Laroy S., Athol, Mass. Cutting-nippers	637,177	Nov. 14	1839	393	89	1313
Stassart, Joseph D., assignor of one-half to H. Pease, Portland, Oreg. Combined pencil-sharpener and eraser	627,279	June 20	1954	430	87	2033
Stathakis, Angel, Hoboken, N. J. Propelling mechanism for vessels	625,907	May 30	3567	809	87	1472
Staub, Jacob, Chicago, Ill. Swimming appliance	636,364	Nov. 7	234	51	89	968
Stauber, Benjamin T., Jewell, Kans. Steam-boiler	617,261	Jan. 3	758	177	86	149
Stauber, Joseph, Brookville, Kans., assignor of one-third to J. C. Farrar, Kansas City, Mo., and W. R. Johnson, Carneiro, Kans. Hat-fastener	620,193	Feb. 28	2563	583	86	1363

Alphabetical list of patentees—Continued.

Name, residence, and invention.	No.	Date.	Monthly volume. Spec.	Monthly volume. Dr'g.	Official Gazette. Vol.	Official Gazette. Page.
Stauber, Joseph, assignor of one-half to J. C. Farrar, Kansas City, Mo., and W. R. Johnson, Carneiro, Kans. Hat-fastener	631,098	Aug. 15	2566	580	88	1260
Stauch, Philip, Chicago, Ill. Mud-guard for bicycles	621,168	Mar. 14	1182	257	86	1743
Stauffer, Granville W., assignor to N. P. Stauffer, Phœnixville, Pa. Collar and shirt protector	636,864	Nov. 14	1209	261	89	1103
Stauffer, Jacob A., Abilene, Kans. Collapsible poultry-crate	627,148	June 20	1724	378, 379	87	1986
Stauffer, Jeremiah F., Philadelphia, Pa. Bicycle-pedal	639,458	Dec. 19	2355	543	89	2363
Stauffer, Nathan P. (See Stauffer, Granville W., assignor.)						
Staveley, Alwyn W. (See Gent, Staveley, and Parsons.) (Reissue.)						
Steacher, George, *et al.* (See Walter, Franklin, assignor.)						
Stear, Elmer E., Millstone, Pa. Brace-wrench	625,209	May 16	2278	518	87	1180
Stearn, Charles H., London, England. Filament for incandescent electric lamps	622,087	Mar. 28	2867	646	86	2098
Stearnes, E. N., *et al.* (See Baker, Willard D., assignor.)						
Stearns, Albert T., Boston, Mass. Interior fire-resisting construction	634,739	Oct. 10	1419	335	89	299
Stearns, Charles E. (See Flanders, Herbert, assignor.)						
Stearns & Co., E. C. (See Potter, William M., assignor.)						
Stearns & Co., E. C. (See Spencer, James B., assignor.)						
Stearns & Co., E. C. (See Trebert, Henry L., assignor.)						
Stearns, Henry, S. Wilson, and E. B. Whinnerah, Manchester, England. Acetylene-gas-generating lamp	629,309	July 18	2519	586	88	525
Stearns, Isaac, assignor of one-half to S. Stearns, Detroit, Mich. Hot-air pipe for furnaces	629,095	July 18	2146	499	88	456
Stearns, John P., Cambridge, Mass. Damper-actuating device	620,375	Feb. 28	2878	659	86	1424
Stearns-Roger Manufacturing Company. (See Rothwell, John E., assignor.)						
Stearns, Samuel. (See Stearns, Isaac, assignor.)						
Stearns, Wesley R., assignor of one-third to W. Dent, Portland, Oreg. Signaling system and apparatus for electric trolley-railways	639,202	Dec. 12	1859	428, 429	89	2248
Stears, Emily A., New York, N. Y. Lady's dress or skirt protector	624,114	May 2	318	65	87	761
Stebbins, Moro D. (See Jones, Gomer P., assignor.)						
Stebbins, Roswell O., New York, N. Y. Tent	618,367	Jan. 24	2868	636, 637	86	607
Stebbins, Roswell O., New York, N. Y. Portable filter	636,300	Nov. 7	128	28	89	948
Steber, Bernard T., Utica, N. Y. Knitting-machine	635,817	Oct. 31	3452	795	89	742
Stech, Stephen, assignor of one-half to G. W. Brown, Butte, Mont. Propelling mechanism for bicycles	627,240	June 20	1882	413	87	2018
Stecher, Bernard, Columbus, Ohio. Gas heating-stove	622,558	Apr. 4	676	157	87	129
Stecher, George, *et al.* (See Walter, Franklin, assignor.)						
Stecher Lithographic Company. (See Corkhill, Henry R., Jr., assignor.)						
Steck, Ernst F., assignor to Fire Extinguisher Manufacturing Company, Chicago, Ill. Rotary fire hydrant or turret	623,341	Apr. 18	2119	486	87	443
Stedman, William H., assignor to Merrow Machine Company, Hartford, Conn. Sewing-machine	626,311	June 6	166	40	87	1645
Stedman, William H., assignor to Merrow Machine Company, Hartford, Conn. Sewing-machine	626,312	June 6	169	41	87	1645
Steed, Arthur R. (See Gibbs, William A., assignor.)						
Steed, William H. N., Adelaide, South Australia. Scoring-board for cycling or other sports	619,053	Feb. 7	489	102, 103	86	905
Steege, Henry W., Knittel, Iowa. Door-latch	627,213	June 20	1832	401	87	2008
Steel Abrasives Company. (See Pielsticker, Charles M., assignor.)						
Steel Ball Company. (See Hill, Christian C., assignor.)						
Steel Cable Engineering Company. (See Decker, Edwin S., assignor.)						
Steel Cable Engineering Company. (See Terhune, Theodore O., assignor.)						
Steel, Charles, Ethridge, Tenn. Gate	631,187	Aug. 15	2709	613, 614	88	1289
Steel, Francis H. (See Boote and Kittredge, assignors.)						
Steel, Harry W., *et al.* (See Stump and Brucker, assignors.)						
Steel Motor Company. (See Brown, William M., assignor.)						
Steel Motor Company. (See Merrick, Frank A., assignor.)						
Steel Motor Company. (See Parham, Eugene C., assignor.)						
Steel Motor Company. (See Valley, Gustaf, assignor.)						
Steel Plate Printing Company. (See Bradford, Eugene S., assignor.)						
Steele, Frank A., Mount Carroll, Ill. Folding wall shelf, table, or desk	624,115	May 2	319	65, 66	87	761
Steele, Frank W., Terre Haute, Ind. Knob-lock	618,547	Jan. 31	3224	715, 716	86	689
Steele, Herbert B., Malden, Mass. Automobile vehicle	627,359	June 20	2115	468, 469, 470	87	2065
Steele, Herbert H., New York, N. Y., assignor to American Writing Machine Company, Ilion, N. Y. Type-writing machine	617,887	Jan. 17	1968	440	86	423
Steele, James H., Butte, Mont. Pulverizer	630,125	Aug. 1	746	160	88	871
Steele, John, and A. O'son, assignors of one-third to P. N. Lindquist, St. Paul, Minn.; said Steele assignor to said Olson and Lindquist. Bow-facing oar	629,402	July 25	2701	629	88	582
Steele, John B., assignor of one-half to M. C. Willis, National City, and W. H. Reider, Los Angeles, Cal. Process of and apparatus for applying insecticides	627,214	June 20	1833	401	87	2008
Steele, Joseph E., Columbus, Ohio. Electrically-operated railway-crossing alarm	631,134	Aug. 15	2624	594	88	1272
Steele, Wilbur F., Asbury Park, N. J. Carbureter	628,639	July 11	1325	308, 309	88	276
Steele, William S., Dayton, Ohio. Skirt-supporter	624,699	May 9	1374	307	87	989
Steen, Emma C., Wahoo, Nebr. Carpet-tack	623,847	Apr. 25	3055	702	87	643
Steen, Joseph, Haddam, Conn. Rotary engine	631,882	Aug. 29	3992	893	88	1569
Steer, Joseph E. (See Wilcox, Elmer A., assignor.)						
Steere, Merrill O. (See Brindle and Steere.)						
Steere, Oscar A., Providence, assignor to Hope Webbing Company, Pawtucket, R. I. Narrow-fabric loom	618,214	Jan. 24	2601	575	86	556
Steere, Oscar A., assignor to Hope Webbing Company, Pawtucket, R. I. Narrow-fabric loom	639,626	Dec. 19	2646	607, 608	89	2422
Steers, James, St. Louis, Mo. Rake	634,310	Oct. 3	646	157	89	131
Stefán, Coloman, Vienna, Austria-Hungary. Seal-lock	627,149	June 20	1727	379	87	1987
Stefany, Carl. (See Stefany, Ludwig, assignor.)						
Stefany, Ludwig, Philadelphia, assignor of two-fifths to C. Stefany, Pencoyd, Pa. Device for exhibiting samples, &c	623,636	Apr. 25	2645	605	87	563
Steffens, Fred, St. Joseph, Mo. Double safety-guard for open railway passenger-cars	626,349	June 6	247	58	87	1661
Steffens, Fred, and O. F. Koss, St. Joseph, Mo. Gallery-car	624,116	May 2	321	66	87	761
Steffens, Mathew J., Chicago, Ill. Process of and box for packing sensitized material	619,097	Feb. 7	566	121	86	921
Steger, John V., Steger, Ill. Harp attachment for pianos	623,690	Apr. 25	2743	628	87	583

Alphabetical list of patentees—Continued.

Name, residence, and invention.	No.	Date.	Monthly volume.		Official Gazette.	
			Spec.	Drg.	Vol.	Page.
Steiger, Jacob, London, England. Manufacture of cement	627,884	June 27	3106	------	87	2276
Steimer, Theodore C. (See Rott and Steimer.)						
Steimle, Johann. (See Fellner and Steimle.)						
Stein, Charles A. (See Lechi, Alfred, assignor.)						
Stein, George, *et al.* (See Schaefer, William and J., assignors.)						
Stein, Herman, Georgetown, Minn. Straw-stacker	632,595	Sept. 5	699	161, 162	88	1844
Stein, Jacob. (See Jacomet, Zacharie, assignor.)						
Stein, Julius, Boston, Mass. Music-ball	620,087	Feb. 21	2362	535	86	1311
Stein, Myer J., New York, N. Y. Negotiable-instrument blank	622,902	Apr. 11	1300	299	87	265
Stein, Wilhelm, Hamburg, Germany, assignor to Siemens & Halske Electric Company of America, Chicago, Ill. Electric-railway system	623,223	Apr. 18	1899	436	87	398
Stein, William A., *et al.* (See Beighey, William J., assignor.)						
Steinbart, Alfred. (See Uehling and Steinbart.)						
Steinbart, Alfred, Carlstadt, N. J. Instrument for recording variations in tension of gases	639,306	Dec. 19	2054	472	89	2302
Steinbart, Alfred, Carlstadt, and E. A. Uehling, Newark, N. J. Apparatus for determining constituents of gases	637,488	Nov. 21	2428	528	89	1445
Steinberg, Maurice, Biwabik, Minn. Dredging and mining apparatus	618,300	Jan. 24	2754	610, 611	86	586
Steinert, Morris, New Haven, Conn. Piano-action	625,127	May 16	2154	489	87	1156
Steinert, Morris, New Haven, Conn. Piano-action	625,128	May 16	2156	489	87	1156
Steinert, Morris, New Haven, Conn. Piano-action	625,129	May 16	2158	489	87	1157
Steinfeld, Barny S., assignor of one-half to L. Maass, New Haven, Conn. Coin-controlled lung-tester	635,607	Oct. 24	3047	700	89	648
Steinhoff, Henry C., West Hoboken, N. J. Gas-heater	622,726	Apr. 11	982	228	87	206
Steinhorst, Albertine. (See Steinhorst and Seislmeir, assignors.)						
Steinhorst, Emil, and J. Seislmeir, assignors to said Seislmeir and A. Steinhorst, Utica, N. Y. Food-chopping machine	639,307	Dec. 19	2057	473	89	2303
Steininger, Arthur C., South Bend, Ind. Collapsible bookcase	631,341	Aug. 22	2998	680	88	1365
Steinle, Otto, Quedlinburg, Germany. Governor	631,340	Aug. 22	2998	680	88	1365
Steinmetz, Charles, Yonkers, N. Y., assignor to General Electric Company, of New York. Method of and means for inducing magnetism in magnetic circuits	630,418	Aug. 8	1336	299, 300	88	997
Steinmetz, Charles P. (See Rice and Steinmetz.)						
Steinmetz, Charles P., Schenectady, N. Y., assignor to General Electric Company, of New York. Insulating alternating-current circuits	619,360	Feb. 14	1049	------	86	1034
Steinmetz, Charles P., Schenectady, N. Y., assignor to General Electric Company, of New York. Frequency-changer	620,986	Mar. 14	848	186	86	1678
Steinmetz, Charles P., Schenectady, N. Y., assignor to General Electric Company, of New York. Frequency-changer	620,987	Mar. 14	852	186	86	1679
Steinmetz, Charles P., Schenectady, N. Y., assignor to General Electric Company, of New York. Frequency-changer	620,990	Mar. 14	859	187	86	1681
Steinmetz, Charles P., Schenectady, N. Y., assignor to General Electric Company, of New York. Alternating-current motor	630,419	Aug. 8	1344	301	88	998
Steinmetz, Charles P., Schenectady, N. Y., assignor to General Electric Company, of New York. Thermal cut-out	636,578	Nov. 7	618	136	89	1047
Steinmetz, Charles P., and E. J. Berg, Schenectady, N. Y., assignors to General Electric Company, of New York. Self-starting alternating-current motor	620,988	Mar. 14	854	187	86	1680
Steinmetz, Charles P., and E. J. Berg, Schenectady, N. Y., assignors to General Electric Company, of New York. Starting device for electric motors	620,989	Mar. 14	856	187	86	1680
Steinmetz, Hermann, Hoboken, N. J. Tape-measure	629,139	July 18	2231	517	88	471
Steinmetz, Joseph A., Philadelphia, Pa. Turnbuckle	622,286	Apr. 4	156	36	87	32
Steinmeyer, Hermann F., Pforzheim, Germany. Watchcase	634,919	Oct. 17	1729	410	89	376
Steinmeyer, Julius, *et al.* (See Burkart, Nicolas, assignor.)						
Steljes, Walter S., London, England. Step-by-step printing-telegraph	624,561	May 9	1141	255, 256	87	944
Stell, Ira L., Sherman, Tex. Fertilizer-distributer	636,079	Oct. 31	4001	915	89	848
Stelling, Herman, New York, N. Y. Indicator	624,562	May 9	1143	256	87	944
Stelling, Reinhard. (See Neuens, Michael W., assignor.)						
Stelter, Herman, Pittsburg, Pa. Railway-switch	634,706	Oct. 10	1353	320	89	287
Stelzenmüller, Karl, New York, N. Y. Safety device for door-latches	636,365	Nov. 7	234	52	89	968
Stem, Edgar S., and A. O. Dunlap, Alderson, Pa. Back-pedaling brake	637,178	Nov. 14	1840	394	89	1313
Stembel, Clarence P., St. Paul, Minn. Railway cash-fare ticket	635,702	Oct. 24	3214	740	89	682
Stendebach, Carl F. P., Leipsic, Germany. Device for feeding current to electrically-driven cars	633,165	Sept. 19	1823	428	88	2092
Stendebach, Carl F. P., Leipsic, Germany. Electric railway	633,166	Sept. 19	1824	429	88	2092
Stendebach, Carl F. P., Leipsic, Germany. Automatic igniting device	633,167	Sept. 19	1826	429, 430	88	2093
Stendebach, Carl F. P., Leipsic, Germany. Igniting device	635,155	Oct. 17	2189	511	89	467
Stendicke, Richard A., *et al.* (See Prentice, Charles F., assignor.)						
Stenger, J. (See Rohm, Henry A., assignor.)						
Stenger, Julius, assignor of one-half to H. Rohm, Sayville, N. Y. Billiard-cue tip	629,217	July 18	2355	547	88	494
Stenner, St. Clare F., Portland, Oreg. Curtain-pin	640,043	Dec. 26	3422	785	89	2595
Stenning, Walter, London, England. Railway for recreation	639,787	Dec. 26	2966	682	89	2503
Stensland, Cornelius, New York, N. Y. Apparatus for curling hat-brims	638,817	Dec. 12	1182	265	89	2117
Stenz, Henry, assignor of one-half to J. J. Weyer, Faribault, Minn. Electric-light radiator	622,785	Apr. 11	1078	250	87	224
Stephan, Wilhelm N., Olean, N. Y. Exhibiting-stand for price-lists	630,755	Aug. 8	1926	435	88	1111
Stephens, Alejandro, Guadalajara, Mexico. Steam-engine	624,700	May 9	1375	307	87	989
Stephens, Anson P., New York, N. Y. Cycle driving mechanism	629,177	July 18	2290	532, 533	88	482
Stephens, Anson P., New York, N. Y. Cycle driving mechanism	629,178	July 18	2294	533	88	483
Stephens, Anson P., New York, N. Y. Steering mechanism for cycles	629,179	July 18	2296	533	88	483
Stephens, Benjamin F., New York, N. Y. Eye-cup	619,002	Feb. 7	399	83	86	887
Stephens, Dabney B., Minneapolis, assignor of eleven-sixteenths to A. M. Miller, J. G. Harris, and W. B. Topham, Duluth, Minn. Metallic-rim rubber-tread horseshoe	619,361	Feb. 14	1050	236	86	1035
Stephens, Isaac W., Sardis, assignor of one-half to R. A. Lewis, Lexington, Tenn. Armrest	621,507	Mar. 21	1794	399	86	1873
Stephens, James E. (See Cash and Stephens.)						
Stephens, James E., Stoneburg, Tex. Milk-cooler	635,903	Oct. 31	3628	836	89	775
Stephens, James W. T., New York, N. Y. Gaging and mixing machine for concrete	630,420	Aug. 8	1348	301	88	999
Stephens, John H. (See Williams, Win D., assignor.)						
Stephens, John H., Vernon, Tex. Combined multiple weight and pendulum scale	628,558	July 11	1151	268	88	242
Stephens, John H., Vernon, Tex. Combined computing device and weighing-scale	628,559	July 11	1153	268, 269	88	242
Stephens, John H., Vernon, Tex. Combined computing device and weighing-scale	628,560	July 11	1155	270	88	243
Stephens, John L., *et al.* (See Worthington, Henry S., assignor.)						
Stephens, Joseph, Forest City, Pa. Hollow auger	632,764	Sept. 12	1060	245	88	1921

Alphabetical list of patentees—Continued.

Name, residence, and invention.	No.	Date.	Monthly volume.		Official Gazette.	
			Spec.	Dr'g.	Vol.	Page.
Stephens, Robert, *et al.* (See Smith, William F., assignor.)						
Stephens, Samuel, Hamilton, Canada. Street-sweeper	628,616	July 11	1238	289	88	259
Stephens, Thomas S. (See Hagstrom, John, assignor.)						
Stephenson, Clement L., New York, N. Y. Waist-belt attachment	631,594	Aug. 22	3480	786	88	1461
Stephenson, Edward. (See Fisher, Nathan, assignor.)						
Stephenson, Elmer L. (See Stephenson, Walter V. and E. L.)						
Stephenson, Emery A., Waugh, Ind. Combined corn-husker and fodder-shredder	622,287	Apr. 4	157	36, 37, 38, 39	87	33
Stephenson, George E. (See Tripp and Stephenson.)						
Stephenson, Robert S., assignor of one-half to J. S. Graham, Allegheny, and S. R. Baldwin, New Castle, Pa. Stove or range	625,710	May 23	3169	719	87	1379
Stephenson, Robert S., assignor of one-half to J. S. Graham, Allegheny, and S. R. Baldwin, New Castle, Pa. Stove or range	630,126	Aug. 1	747	161	88	872
Stephenson, Walter V. and E. L., Fort Dodge, Iowa. Step-ladder	621,479	Mar. 21	1745	389	86	1864
Stephenson, William, Morris, Canada. Seed-drill	624,117	May 2	323	66	87	762
Stephenson, William, Morris, Canada. Disk seed-drill	624,118	May 2	324	67	87	762
Stephenson, William, Morris, Canada. Scraper for disk seed-drills	624,119	May 2	326	67	87	762
Stephenson, William, Morris, Canada. Disk drill	631,135	Aug. 15	2626	594	88	1272
Stereoptican and Film Exchange. (See Arnold, Irwin R. B., assignor.)						
Sterling Arc Lamp Company. (See Schefbauer, Rupert, assignor.)						
Sterling, Clarence, Bridgeport, Conn. Motor-vehicle	618,915	Feb. 7	165	36, 37, 38	86	837
Sterling Company. (See Carroll, Charles, assignor.)						
Sterling, Daniel L., Chicago, Ill. Sleeve or cuff protector	635,156	Oct. 17	2190	511	89	467
Sterling Drying and Carbonizing Machine Company. (See Lee, Thomas, assignor.)						
Sterling, Edward C., *et al.* (See Proskey, Winfield S., assignor.)						
Sterling, Thomas. (See Clugston, William D., assignor.)						
Stern, Charles A., *et al.* (See Baines, Edward, assignor.)						
Stern, Edward, Boston, Mass. Gas-heating sad-iron	628,235	July 4	511	124	88	102
Stern, Edward, Boston, Mass. Gas-heating sad-iron	638,405	Dec. 5	419	87	89	1945
Stern, Lena. (See Ecker, Morris, assignor.)						
Sternad, John. (See Brändli, Hermann, assignor.)						
Sternad, John, Jersey City, N. J. Washboard	624,398	May 2	827	186	87	859
Sternberg, Albert F., Chicago, Ill. Convertible bicycle	625,612	May 23	2995	682, 683	87	1344
Sternberg, Jacques. (See Germaine, Eugéne, assignor.)						
Sterner, Charles, Orange Valley, N. J. Steamship and propelling apparatus	636,467	Nov. 7	402	89,90	89	1001
Sterzing, Albert A. E., New York, N. Y. Hydraulic air-compressor	618,242	Jan. 24	2652	586	86	566
Stetler, Albert L., Allentown, Pa. Shutter-fastener	620,058	Feb. 21	2317	526	86	1302
Stetson, Charles B., Allegheny, Pa. Wagon-brake	632,765	Sept. 12	1061	246	88	1032
Stetson, Clarence W. (See Smith, George E., assignor.)						
Stettinius, Edward R., assignor to Stirling Company, Chicago, Ill. Water-tube boiler	626,731	June 13	941	213	87	1815
Stettinius, Edward R., assignor to Stirling Company, Chicago, Ill. Water-tube boiler	628,044	July 4	154	32	88	32
Steurer, John A., New York, N. Y. Gynecological stirrup	620,194	Feb. 28	2564	583	86	1363
Stevens, Achilles, Newport, R. I. Thill-coupling	621,169	Mar. 14	1183	257	86	1743
Stevens, Charles W., Harvey, Ill. Making artificial stone	624,563	May 9	1144	256	87	944
Stevens, Daniel B., Auburn, Me. Band-fastener	632,030	Aug. 29	4259	957	88	1621
Stevens, Edward G., New York, N. Y. Parcel-carrier	622,288	Apr. 4	160	39	87	33
Stevens, Edward G., New York, N. Y. Device for holding tags, labels, &c	622,289	Apr. 4	161	39	87	33
Stevens, Frank L., Hoosick Falls, N. Y. Pulp-engine	629,970	Aug. 1	455	98	88	813
Stevens, Frederick A., Providence, R. I. Manufacturing spectacle-frames	627,018	June 13	1502	328	87	1924
Stevens, Frederick W. (See Waterman and Stevens.)						
Stevens, George E., Laconia, N. H. Knitted fabric for hydraulic hose	630,783	Aug. 8	1975	446	88	1121
Stevens, George E., assignor to F. E. Busiel, Laconia, N. H. Knitting-machine	630,784	Aug. 8	1976	447	88	1121
Stevens, Henry M., assignor of one-half to Pettingill Andrews Company, Boston, Mass. Cleat for electric wiring	631,234	Aug. 15	2786	632	88	1305
Stevens, James H., Dayton, Ohio. Frost-protector	628,997	July 18	1966	457	88	420
Stevens, James W. (See Burkhart, Charles L., assignor.)						
Stevens, John, Philadelphia, Pa. Elevator	621,546	Mar. 21	1875	415	86	1888
Stevens, John A., Lowell, Mass. Steam-boiler	619,098	Feb. 7	568	121	86	922
Stevens, John F., Philadelphia, Pa. Electric ground-detector for constant-current arc-light circuits	639,459	Dec. 19	2357	543	89	2363
Stevens, John H., Newark, N. J., assignor to Celluloid Company, New York, N. Y. Pyroxylin composition	617,450	Jan. 10	1137	------	86	239
Stevens, John H., Newark, N. J., assignor to Celluloid Company, New York, N. Y. Pyroxylin compound	621,382	Mar. 21	1567	------	86	1830
Stevens, John H., Newark, N. J., assignor to Celluloid Company, New York, N. Y. Transparent pyroxylin plastic composition	621,433	Mar. 21	1645	------	86	1846
Stevens, John H., Newark, N. J., assignor to Celluloid Company, New York, N. Y. Transparent pyroxylin plastic composition	621,434	Mar. 21	1649	------	86	1846
Stevens, John H., Newark, N. J., assignor to Celluloid Company, New York, N. Y. Transparent pyroxylin plastic composition	622,290	Apr. 4	163	------	87	33
Stevens, John H., Newark, N. J., assignor to Celluloid Company, New York, N. Y. Transparent pyroxylin plastic composition	622,291	Apr. 4	167	------	87	34
Stevens, John H., Newark, N. J., assignor to Celluloid Company, New York, N. Y. Transparent pyroxylin composition of matter	622,292	Apr. 4	170	------	87	34
Stevens, John H., Newark, N. J., assignor to Celluloid Company, New York, N. Y. Transparent pyroxylin plastic composition	622,293	Apr. 4	172	------	87	34
Stevens, John H., Newark, N. J., assignor to Celluloid Company, New York, N. Y. Transparent pyroxylin plastic composition	622,294	Apr. 4	177	------	87	34
Stevens, John H., Newark, N. J., assignor to Celluloid Company, New York, N. Y. Flexible skin or fabric	622,727	Apr. 11	983	------	87	206
Stevens, John H., Newark, N. J., assignor to Celluloid Company, New York, N. Y. Pyroxylin composition	626,732	June 13	942	------	87	1815
Stevens, John H., Newark, N. J., assignor to Celluloid Company, New York, N. Y. Transparent flowable pyroxylin composition of matter	630,944	Aug. 15	2268	------	88	1203
Stevens, John H., Newark, N. J., assignor to Celluloid Company, New York, N. Y. Transparent flowable pyroxylin composition	630,945	Aug. 15	2272	------	88	1204
Stevens, Josiah P., Altanta, Ga. Printing-press	625,210	May 16	2279	518, 519	87	1180
Stevens, Le Roy W. (See Reuter, John C., assignor.)						
Stevens, Merton P., East Orange, N. J., assignor to Safety Car Heating and Lighting Company, of New Jersey. Gas-lamp	618,588	Jan. 31	3299	733	86	704

Alphabetical list of patentees—Continued.

Name, residence, and invention.	No.	Date.	Monthly volume.		Official Gazette.	
			Spec.	Drg.	Vol.	Page.
Stevens, Milton H., assignor to American Waltham Watch Company, Waltham, Mass. Holder for watch-springs	630,127	Aug. 1	749	161	88	872
Stevens, Nathan P., Concord, N. H. Spark-arrester	622,829	Apr. 11	1157	267	87	238
Stevens, Nathan P., Concord, N. H. Spark-arrester	629,096	July 18	2148	499	88	456
Stevens, Richard H., Braddock, Pa. Hydraulic machinery	617,913	Jan. 17	2028	453	86	434
Stevens, Robert L. (See Otto, Albert T., assignor.)						
Stevens, Robert N., New York, N. Y. Apparatus for applying heat to pavements for disinfecting or melting snow	625,711	May 23	3170	719, 720	87	1379
Stevens, Samuel M., Manchester, N. H. Nozzle	621,480	Mar. 21	1746	389	86	1864
Stevens, Samuel S., Hoosick, N. Y. Pulp-engine	634,038	Oct. 3	97	25	89	23
Stevens, Samuel S., Hoosick, N. Y. Pulp-engine	634,039	Oct. 3	98	25, 26	89	23
Stevens, Theodore B., Cleveland, Ohio. Sash-lock	617,131	Jan. 3	524	125	86	102
Stevens, Theodore B., Cleveland, Ohio. Sash-fastener	622,903	Apr. 11	1301	299	87	265
Stevens, Theodore B., Cleveland, Ohio. Swinging-window lock	624,120	May 2	327	67	87	762
Stevens, Theodore B., Cleveland, Ohio. Latch	624,121	May 2	328	67	87	763
Stevens, Truman E., Blair, Nebr. Automatic watering-trough	616,986	Jan. 3	232	53, 54	86	46
Stevens, William, Braintree, Mass., assignor of one-half to W. S. Bell, Pittsburg, Pa. Stop mechanism	627,241	June 20	1883	413	87	2018
Stevens, William H. (See Furbish, Zachry T., assignor.)						
Stevens, William H., assignor of one-half to P. Gerst, Buffalo, N. Y. Sash-holder	622,828	Apr. 11	1156	267	87	238
Stevenson, Charles E. (See Watson and Stevenson.)						
Stevenson, Charles M., Harvard, Ill. Straw-carrier for threshing-machines	633,625	Sept. 26	2705	629	88	2276
Stevenson, George, *et al.* (See Latimer, James F., assignor.)						
Stevenson, Henry M., Barnet, Vt. Curtain-fixture	618,746	Jan. 31	3579	799	86	760
Stevenson, Henry M., Barnet, Vt. Tongue-guard for shoes	631,595	Aug. 22	3481	786	88	1461
Stevenson, Henry M., Perry, Iowa. Spiral tool-driver	624,122	May 2	330	68	87	763
Stevenson, Hugh, New York, N. Y. Portable stand or support	619,362	Feb. 14	1052	236	86	1035
Stevenson, Hugh, New York, N. Y. Soup-spoon	619,363	Feb. 14	1053	236	86	1035
Stevenson, John, Philadelphia, Pa. Carpet	624,123	May 2	332	68	87	764
Stevenson, Joseph, Essendon, Victoria. Combined latch and lock	638,604	Dec. 5	786	170	89	2016
Stevenson, Lawrence K., West Unity, Ohio. Label-holder	624,701	May 9	1377	308	87	990
Stevenson, Levi A., Gaylord, Mich. Eyeglass-gage	626,575	June 6	645	149	87	1740
Stevenson, Matthew H. (See Bailey, Thomas O. P. and W. G., assignors.)						
Stevenson, S. Price, Chester, Pa. Lock and latch	633,536	Sept. 19	2500	588	88	2224
Stevinson, Thomas. (See Ashworth and Stevinson.)						
Steward, Alden A., Clarendon, Vt, Brazing-machine	625,990	May 30	3719	843, 844	87	1502
Steward, Clarence S., *et al.* (See Painter, Carl T., assignor.)						
Steward, Clarence S., Chattanooga, Tenn. Gas-burner	636,080	Oct. 31	4003	915	89	848
Steward, Demetrius M., Chattanooga, Tenn. Acetylene-gas burner	629,623	July 25	3117	725	88	662
Steward, Demetrius M., Chattanooga, Tenn. Gas-burner tip	635,818	Oct. 31	3456	795	89	742
Steward, Eliza M., Ashville, Ohio. Device for stretching table-cloths, &c	632,159	Aug. 29	4504	1014	88	1671
Steward, Frederick S., Kansas City, Mo. Fireproof door for theaters	616,987	Jan. 3	233	54	86	46
Steward, George C., *et al.* (See Painter, Carl T., assignor.)						
Steward, John A., Clarendon, Vt. Seaming sheet-metal vessels	635,608	Oct. 24	3049	701	89	648
Steward, John A., Clarendon, Vt. Metallic closure for receptacles	637,295	Nov. 21	2070	443	89	1373
Steward, John F. (See Whitney and Steward.)						
Steward, John F., Chicago, Ill. Self-binding harvester	624,564	May 9	1147	257	87	945
Steward, John F., Chicago, Ill. Bundle-discharging mechanism	634,964	Oct. 17	1809	429	89	393
Steward, John F., assignor of one-half to F. Barnes, Addison, Mich. Knotter for harvesting-machines	617,545	Jan. 10	1300	294	86	273
Stewart, Alexander, Jr. (See Stewart, John H., assignor.)						
Stewart, Alfred C., Santa Paula, Cal. Motor-carriage	633,666	Sept. 26	2770	643, 644	88	2290
Stewart, Burgess M., Mason, Tex. Refrigerator	639,308	Dec. 19	2058	473	89	2303
Stewart, C. P., *et al.* (See Klein, Alexander, assignor.)						
Stewart, Carrie M., South Bend, Ind. Fruit-gatherer	620,195	Feb. 28	2565	583	86	1363
Stewart, Charles C. (See Updegraff and Stewart.)						
Stewart, Claude W., Martinsburg, W. Va. Harvester-reel	640,044	Dec. 26	3422	785, 786	89	2595
Stewart, Cyrus W., and C. A. King, assignors to Rex Acetylene Generator Co., Norwich, N. Y. Acetylene-gas generator	638,854	Dec. 12	1243	280	89	2128
Stewart, David S., assignor to G. W. Jones Lumber Company, Clintonville, Wis. Sawing-machine	626,846	June 13	1167	260, 261	87	1857
Stewart, Ebenezer. (See Marchlewski, Wilson, and Stewart.)						
Stewart, Ebenezer. (See Wilson and Stewart.)						
Stewart, Edgar J., Des Plaines, Ill. Bale-reducing and pad-forming machine	618,916	Feb. 7	176	38, 39, 40	86	840
Stewart, Elmer U., Sharon, Pa. Metallic cross-tie	628,215	July 4	474	114	88	95
Stewart, F. E., *et al.* (See Klein, Alexander, assignor.)						
Stewart, Frank H., Camden, N. J. Handle and adjuster for electric lights	627,215	June 20	1835	401	87	2009
Stewart, Frank L., Boyne Falls, Mich. Swine-trough	638,675	Dec. 5	930	207	89	2049
Stewart, Frank N. (See Quimby, Asahel B., assignor.)						
Stewart, Frederick W., Coldwater, Mich. Wrench	630,421	Aug. 8	1350	301	88	1000
Stewart, Frederick W., and G. R. Van Schoick, Coldwater, Mich. Wrench	617,369	Jan. 10	985	226	86	210
Stewart, George H., assignor of one-half to J. G. Gunderson, Aneta, N. D. Snap-hook	639,309	Dec. 19	2060	473	89	2303
Stewart, George P., Palestine, Tex. Locking device for car-couplings	629,218	July 18	2356	547	88	494
Stewart, George T., *et al.* (See Stewart, James, Jr., assignor.)						
Stewart Hartshorn Company. (See Hartshorn, Edmund F., assignor.)						
Stewart, James. (See Lambert, Gorham, assignor.)						
Stewart, James, Jr., Peekskill, assignor of two-thirds to J. D. and G. T. Stewart, Yonkers, N. Y. Sewing-machine	621,170	Mar. 14	1184	257, 258	86	1743
Stewart, James, Jr., Peekskill, assignor of two-thirds to J. D. and G. T. Stewart, Yonkers, N. Y. Seam for sewed articles	621,171	Mar. 14	1191	259	86	1745
Stewart, James D., *et al.* (See Stewart, James, Jr., assignor.)						
Stewart, John C. (See Wilcox and Stewart.)						
Stewart, John H., assignor to A. Stewart, Jr., Lynn, Mass. Counter-rolling machine	637,533	Nov. 21	2513	545	89	1462
Stewart, John J. (See Jones, Thomas S., assignor.)						
Stewart, John K., *et al.* (See Donigan, William J., assignor.)						
Stewart, John M., Spencer, Ind., C. V. Denman, Mansfield, Ohio, and C. F. Worth, Indianapolis, Ind. Mowing-machine	635,983	Oct. 31	3782	871, 872	89	806
Stewart, Joseph B., Haverstraw, N. Y. Magnet-clutch for brakes	626,942	June 13	1362	299	87	1896
Stewart, McElmer, assignor of one-half to J. T. Wellington, Kansas City, Mo. Horseshoe	622,559	Apr. 4	677	158	87	129
Stewart, Richard C., Jr., and W. A., Covington, Ky. Bar for jails, &c	618,962	Feb. 7	300	65	86	869

Alphabetical list of patentees—Continued.

Name, residence, and invention.	No.	Date.	Monthly volume. Spec.	Monthly volume. Dr'g.	Official Gazette. Vol.	Official Gazette. Page.
Stewart, Richard C., Jr., and W. A., Covington, Ky. Jail	624,565	May 9	1150	257, 258	87	945
Stewart, Richard C., Jr., and W. A., Covington, Ky. Wrought-metal joist-hanger	625,427	May 23	2682	611	87	1283
Stewart, Richard C., Jr., and W. A., Covington, Ky. Support for metallic fence-rails	626,733	June 13	943	214	87	1815
Stewart, Robert A., Cerrillos, N. Mex. Ter. Apparatus for roasting refractory ores	633,278	Sept. 19	2037	479	88	2134
Stewart, Samuel M., Escondido, assignor of one-half to R. Peet, San Diego county, Cal. Leak-stopper	633,537	Sept. 19	2501	588	88	2224
Stewart, Sherman W., Marengo, Ind. Rotary engine	631,943	Aug. 29	4091	918	88	1588
Stewart, Thomas D., assignor to Heyer Storage Battery Company, Chicago, Ill. Vehicle-tire	632,378	Sept. 5	313	71	88	1768
Stewart, Wallace A. (See Stewart, Richard C., Jr., and W. A.)						
Stewart, Walter H., and A. N. Ames, Franklin, N. H. Needle	621,950	Mar. 28	2629	592	86	2049
Stewart, William. (See Hanson and Stewart.)						
Stewart, William F. (See Kohlmeyer and Stewart.)						
Stewart, William J., Chicago, Ill. Feeding mechanism for sewing-machines	618,747	Jan. 31	3582	799	86	760
Stewart, William J., Grimes, Iowa. Cream-pasteurizing machine	629,097	July 18	2149	499, 500	88	457
Stewart, William W., New York, N. Y. Self-filling fountain-pen	630,526	Aug. 8	1543	344	88	1036
Stewart, William W., New York, N. Y. Self-filling fountain-pen	630,527	Aug. 8	1546	344	88	1037
Stewart, William W., New York, N. Y. Fountain-pen	631,909	Aug. 29	4029	902	88	1577
Sthal, Wendell. (See Schollerer and Sthal.)						
Stiassny, Leopold, New York, N. Y. Incandescent-mantle support	633,052	Sept. 12	1572	366	88	2031
Stiassny, Leopold, New York, N. Y. Mantle-support	636,579	Nov. 7	619	136	89	1047
Stiassny, Leopold, New York, N. Y. Incandescent gas-burner	638,652	Dec. 5	869	189	89	2033
Stiassny, Wilhelm, New York, N. Y. Mantle-support	636,580	Nov. 7	621	137	89	1048
Stick, Samuel, Jr. (See Cool, Charles H., assignor.)						
Stickerei Feldmuehle, vormals Loeb, Schoenfeld & Co. (See Sonderegger, Johan J., assignor.)						
Stickney, Burnham C., Elizabeth, N. J., assignor to J. Felbel, New York, N. Y. Typewriting machine	635,609	Oct. 24	3052	701	89	649
Stiebel, Joseph L., Kansas City, Mo. Street-sprinkler	639,788	Dec. 26	2968	683	89	2504
Stiefel, Ralph C., Ellwood City, assignor to Shelby Steel Tube Company, Pittsburg, Pa. Manufacture of tubes	618,917	Feb. 7	185	40, 41	86	841
Stiefel, Ralph C., Ellwood City, and S. Trethewey, assignors to Shelby Steel Tube Company, Pittsburg, Pa. Construction of rolls for metal-rolling	617,409	Jan. 10	1065	243	86	227
Stienbarger, Sheldon A., Augusta, Ill. Hat-fastener	623,745	Apr. 25	2818	646	87	597
Stifel, Otto F., *et al.* (See Bléha, William V., assignor.)						
Stiffey, Stewart S., *et al.* (See Howell, Charles D., assignor.)						
Stikeman, George, New York, N. Y. Library-shelving	621,172	Mar. 14	1192	259	86	1745
Stiles, George A., Boston, Mass. Gearing for bicycles	635,082	Oct. 17	2037	481	89	439
Stiles, Isaac W., West Haven, Conn. Stovepipe-collar	627,280	June 20	1956	430	87	2033
Stiles, Norman C., Watertown, N. Y. Letter-copying press	632,379	Sept. 5	314	71	88	1769
Still, Alfred. (See Cowan and Still.)						
Stillman, Francis H. (See Deering, Mark L., assignor.)						
Stillwell, Lewis B. (See Wills, Joseph, assignor.)						
Stillwell, Lewis B., Niagara Falls, N. Y. System of electrical distribution	633,920	Sept. 26	3202	746	88	2378
Stilmant, Leon, Brussels, Belgium. Speed-changing gear for cycles	634,278	Oct. 3	581	143, 144	89	116
Stilwell, Edwin R., Dayton, Ohio. Trolley-wheel	632,380	Sept. 5	317	71	88	1769
Stilwell, Wendell H., Topeka, Kans. Electric signal	629,624	July 25	3118	725	88	662
Stimpson, Edward S., Hopedale, Mass., assignor to Draper Company, Hopedale, Mass., and Portland, Me. Loom-shuttle	632,209	Aug. 29	4603	1037	88	1688
Stimpson, John M., Boston, Mass. Fireproof structure and material therefor	623,492	Apr. 18	2379	547	87	496
Stimpson, Thomas F., assignor to Silver Spring Bleaching and Dyeing Company, Providence, R. I. Printed fabric and printing same	638,818	Dec. 12	1183	265	89	2117
Stimpson, Thomas F., assignor to Silver Spring Bleaching and Dyeing Company, Providence, R. I. Printing fabrics	638,819	Dec. 12	1185	265	89	2117
Stimpson, Wallace I., Milford, Mass., assignor to Draper Company, Portland, Me., and Hopedale, Mass. Loom-temple	618,368	Jan. 24	2870	637	86	608
Stimpson, Walter F., Milan, Mich. Spring computing-scale	619,364	Feb. 14	1054	236, 237	86	1035
Stimpson, Walter F., Milan, Mich. Spring computing-scale	629,934	Aug. 1	374	81	88	796
Stimpson, Walter F., Milan, Mich. Computing-scale. (Reissue)	11,797	Dec. 26	3642	838	89	2641
Stimpson, Walter F., Detroit, Mich. Spring-scale	635,520	Oct. 24	2896	661	89	620
Stimpson, Walter F., Milan, assignor to H. Brewer & Co., Tecumseh, Mich. Brick-machine	624,399	May 2	828	186, 187	87	859
Stimpson, William H., Winthrop, assignor to G. A. Bodwell, W. H. McConnell, Lynn, and H. W. Shugg, Jr., Ashmont, Mass. Wick-adjusting device for lamps	623,931	Apr. 25	3205	738	87	671
Stimson, Edward I., *et al.* (See Bending, William P., assignor.)						
Stinchcomb, Walter G., and J. Streitz, Marine City, Mich.; said Stinchcomb assignor to said Streitz. Ice-tongs	618,748	Jan. 31	3583	799	86	760
Stine, Samuel B., Osceola Mills, Pa. Oiler for car-wheels	624,566	May 9	1153	258	87	946
Stiner, James H. (See McCollum, Alfred E., assignor.)						
Stinson, Charles K. (See Wilder and Stinson.)						
Stinson, James C., Henderson county, Tenn. Vehicle-brake	621,508	Mar. 21	1795	399, 400	86	1873
Stinton, Edwin G., London, England. Box for cigarettes or other articles	621,173	Mar. 14	1193	259	86	1746
Stippich, Paul A. (See Scott, Dane, assignor.)						
Stirckler, Albert E., Northampton, England. Lasting-machine	623,848	Apr. 25	3056	703, 704	87	643
Stirckler, Albert E., Northampton, England. Machine for lasting boots or shoes	629,476	July 25	2838	658, 659, 660	88	609
Stirk, Albert, Boston, Mass. Revolving trapeze	638,033	Nov. 28	3827	805	89	1782
Stirling Company. (See Faber, Frank M., assignor.)						
Stirling Company. (See Stettinius, Edward R., assignor.)						
Stirling, James A., *et al.* (See Bertram, John, assignor.)						
Stitts, Sylvester, assignor, by mesne assignments, of one-half to R. N. Fearon, Ironton, Ohio. Car-brake	617,199	Jan. 3	642	150	86	126
Stitzer, David, Louisville, Ky. Portable stall	629,726	July 25	3292	768	88	695
Stock, August. (See Homolka and Stock.)						
Stock, George M., assignor of one-half to E. Dumke, Milwaukee, Wis. Motor	630,422	Aug. 8	1352	301	88	1000
Stock, Nicholas, Kingston, N. Y. Furniture-pad	630,128	Aug. 1	750	161	88	872
Stock, Nicholas, Kingston, N. Y. Caster-roller	638,996	Dec. 12	1510	346	89	2180
Stock, Nicholas, Kingston, N. Y. Furniture-pad	638,997	Dec. 12	1511	346	89	2180
Stockail, James J., Sr., London, England. Secondary electric clock	637,179	Nov. 14	1842	394	89	1313

Alphabetical list of patentees—Continued.

Name, residence, and invention.	No.	Date.	Monthly volume.		Official Gazette.	
			Spec.	Dr'g.	Vol.	Page.
Stockall, James J., Jr., London, England. Time-check mechanism	639,110	Dec. 12	1688	390	89	2216
Stocker, William H., Boston, Mass., assignor to Victor Manufacturing Company, of Maine. Type-writing machine	619,365	Feb. 14	1056	237	86	1036
Stockett, John W., Washington, D. C. Breech mechanism for guns	620,259	Feb. 28	2676	614	86	1385
Stockett, Lewis, Great Falls, Mont. Coffee-pot	621,867	Mar. 28	2473	552	86	2022
Stockford, Charles E. (See Stockford, Thomas E., assignor.)						
Stockford, Thomas E., Leesville, assignor of one-half to C. E. Stockford, Sulphur Creek, Cal. Tire-bolt wrench	626,446	June 6	428	101	87	1696
Stockinger, Philip J., Oakland, Cal. Foot-guard for railway-tracks	638,292	Dec. 5	201	42	89	1904
Stockman, William H., Buffalo, N. Y. Curtain-fixture	639,789	Dec. 26	2971	683	89	2505
Stockton, N. A. (See Luckenbach, Rayer, assignor.)						
Stockwell, Fred I., Malone, N. Y. Tension-releasing mechanism for sewing-machines	621,980	Mar. 28	2704	610	86	2064
Stockwell, Frederic F., Jr., Somerville, Mass. Railway-track structure	623,578	Apr. 25	2550	585	87	547
Stockwell, Frederic F., Jr., Somerville, Mass. Railway-track structure	626,734	June 13	944	214	87	1815
Stockwell, William L., Ackerland, assignor of one-half to J. K. Bradford, McLouth, Kans. Breech-loading firearm	637,043	Nov. 14	1564	337	89	1263
Stoddard, Benjman A., Mosherville, assignor of one-half to R. Davis, Albion, Mich. Stay-wire-attaching device	631,681	Aug 22	3619	816	88	1489
Stoddard, Edgar, assignor to Van Dorn Iron Works Company, Cleveland, Ohio. Elevator attachment	624,260	May 2	577	123, 124	87	809
Stoddard, Elliott J., Detroit, Mich. Explosive-engine	623,190	Apr. 18	1849	424	87	388
Stoddard, Elliott J., assignor to Henry C. Hart Manufacturing Company, Detroit, Mich. Gas-motor engine	623,224	Apr. 18	1902	436	87	399
Stoddard, Lyman H., New York, N. Y. Gas-stove	630,999	Aug. 15	2372	540	88	1223
Stoddard, Oscar, assignor to Screwless Door Knob Company, Detroit, Mich. Knob attachment	632,661	Sept. 5	836	195	88	1874
Stoddart, Frederick W., Sneyd Park, England. Distributer for liquids	632,795	Sept. 12	1122	258	88	1945
Stoecker, Louis F., Peoria, Ill. Lid-holder and advertising device	635,904	Oct. 31	3629	836	89	776
Stoehr, Moriz, New York, N. Y. Propelling mechanism for ships	628,129	July 4	321	76, 77	88	65
Stoelting, Christian H., assignor to W. A. Vawter, Chicago, Ill. Machine for crimping paper	622,871	Apr. 11	1235	287, 288	87	253
Stoever, John. (See Maney and Stoever.)						
Stoff, Gustav, Berlin, Germany. Machine for shaping plastic material	617,610	Jan. 10	1426	325	86	296
Stoff, Gustav, Berlin, Germany. Sugar-cutting machine	625,211	May 16	2283	519, 520	87	1181
Stoffel, William, assignor of one-fourth to N. A. Heman, McHenry, Ill. Pneumatic-tire protector	618,808	Jan. 31	3688	826	86	781
Stohwasser, Francis J., and G. B. Winter, London, England. Gaiter or covering for the legs	632,596	Sept. 5	701	162	88	1845
Stokely, Samuel B., and W. S. Livengood, Kansas City, Mo., assignors to Eagle Manufacturing Company, of Missouri. Combined plow and planter	640,045	Dec. 26	3424	786, 787	89	2595
Stokes, Charles S., New York, N. Y. Automatic safety-lock for elevators	635,521	Oct. '24	2897	661	89	620
Stokes, Thomas H., Lincoln, Ill. Mail-stamp	621,383	Mar. 21	1569	348	86	1830
Stokes, Thomas H., Lincoln, Ill. Mail-pouch	634,773	Oct. 10	1471	346	89	309
Stolze, Henry, Jr., Manitowoc, Wis. Candle-holder for Christmas trees	630,423	Aug. 8	1353	302	88	1000
Stommel, Hugo, Plainfield, N. J. Motor-vehicle	626,735	June 13	945	214, 215	87	1816
Stone, Abraham L., San Francisco, Cal. Milk cooler and aerator	638,406	Dec. 5	421	88	89	1946
Stone, Abram B., Doylestown, Pa. Hub for vehicle-wheels	618,749	Jan. 31	3584	800	86	761
Stone, Andrew K., assignor to Pan-American Dredging Company, Boston, Mass. Dredging apparatus	627,660	June 27	2709	594	87	2198
Stone, Allison R., Chicago, Ill. Printing-press	632,766	Sept. 12	1062	246	88	1932
Stone, Carl O., New York, N. Y. Support for flower-pots	633,251	Sept. 19	1987	466	88	2126
Stone, Charles E., assignor of one-half to B. F. Bergh, Amesbury, Mass. Sash-lock	635,449	Oct. 24	2775	634	89	597
Stone, Emma G. (See Hanna, Isaac, assignor.)						
Stone, Irving, assignor to G. A. E. and F. W. Kohler, Chicago, Ill. Electrical slow-starting device for machinery	628,190	July 4	433	103	88	87
Stone, Jabez, Waterford, assignor to Ludlow Valve Manufacturing Company, Troy, N. Y. Valve	633,626	Sept. 26	2706	630	88	2277
Stone, John A., assignor to Deering Harvester Company, Chicago, Ill. Corn-harvester	640,046	Dec. 26	3426	787, 788	89	2596
Stone, John H., Toronto, Canada. Range-boiler	628,680	July 11	1397	325	88	290
Stone, John H., Toronto, Canada. Lamp-burner	638,293	Dec. 5	203	43	89	1905
Stone, John H., Toronto, Canada. Lantern	638,294	Dec. 5	204	43	89	1905
Stone, John H., Toronto, Canada. Lantern	638,653	Dec. 5	870	190	89	2034
Stone, John S., assignor to American Bell Telephone Company, Boston, Mass. Differential electromagnet	623,579	Apr. 25	2551	585	87	547
Stone, John S., assignor to American Bell Telphone Company, Boston, Mass. Telephony	638,152	Nov. 28	4058	856	89	1825
Stone, Julius, Boston, Mass. Adjustable stand or chair for artisans	624,567	May 9	1154	258	87	946
Stone, Reuben R., New York, N. Y. Butter-cutting machine	624,261	May 2	580	124	87	809
Stone, Thomas W., assignor of one-half to O. E. D. Barron, Columbus, Ohio. Washing-machine	619,910	Feb. 21	2058	467	86	1254
Stone, William F., administrator. (See Tousley, Edgar M.)						
Stoner, Clinton S. (See Mallory and Stoner.)						
Stoner, William H., Hamilton, assignor of one-half to J. M. Dilworth, Crab Orchard, Nebr. Corn-husker	635,610	Oct. 24	3056	701	89	650
Stoneman, Orville A., assignor of one-half to E. F. White, Norfolk, Va. Strap-fastening for trunks or the like	631,235	Aug. 15	2787	632	88	1305
Stonesifer, William L., Dauphin, Pa. Car-coupling	632,904	Sept. 12	1332	305	88	1984
Stony Brook Paper Company. (See McEwan, William W., A., and F., assignors.)						
Stoodley, Samuel G., Toronto, Canada. Pan for washing gold	618,918	Feb. 7	188	41	86	842
Stoops, Andrew J., Chattanooga, Tenn. Lock	620,377	Feb. 28	2879	659	86	1424
Stoops, Andrew J., Chattanooga, Tenn. Latch and lock	620,377	Feb. 28	2881	659	86	1425
Storer, Norman W., Edgewood Park, Pa., assignor to Westinghouse Electric and Manufacturing Company, of Pennsylvania. Electric generator or motor	638,482	Dec. 5	568	118	89	1975
Storm, Charles E. (See Rankin and Storm.)						
Storm, Charles W. (See Hunter and Storm.)						
Storm, Edwin R., New York, N. Y. Perforator	622,088	Mar. 28	2868	646, 647	86	2098
Stormer, Peter G., Johnstown, Pa., assignor to Johnson Company, of Pennsylvania. Railway-frog	627,543	June 27	2486	546	87	2154
Stormer, Peter G., Johnstown, Pa., assignor to Johnson Company, of Pennsylvania. Railway-track structure	627,544	June 27	2488	546	87	2154
Storms, Charles A., Buffalo, N. Y. Bicycle-boat	621,465	Mar. 21	1719	381, 382	86	1859
Storrs, Aaron P., Owego, N. Y. Mica chimney for gas-lamps	624,568	May 9	1155	259	87	946

Alphabetical list of patentees—Continued.

Name, residence, and invention.	No.	Date.	Monthly volume. Spec.	Monthly volume. Dr'g.	Official Gazette. Vol.	Official Gazette. Page.
Storrs, William. (See Watts and Storrs.)						
Stott, Alexander W., New York, N. Y., assignor to Hills Brothers Company, of New York. Fruit-seeding machine	622,560	Apr. 4	679	158	87	129
Stott, Jesse A. (See Todd and Stott.)						
Stouder, Jacob M., Fort Wayne, Ind. Lawn-sprinkler	631,944	Aug. 29	4093	918	88	1588
Stough, Eugene, Sioux Falls, S. D. Mold for composition rollers	628,367	July 4	783	182	88	151
Stoughton, Dwight G., Hartford, Conn. Electric line conductor	624,124	May 2	333	68	87	764
Stoughton, Dwight G., Hartford, Conn. Electric line conductor	624,125	May 2	334	68	87	764
Stoughton, Joseph M. (See Hess and Stoughton.)						
Stoup, John A., Crab Tree, Pa. Nut-lock	622,728	Apr. 11	963	228	87	206
Stout, John B., Stewart's Point, Cal. Animal-trap	639,310	Dec. 19	2061	474	89	2304
Stout, Robert P. (See Meigs and Stout.)						
Stoutenborough, John L., Maroa, Ill. Gate	636,011	Oct. 31	3835	882	89	816
Stover Bicycle Manufacturing Company. (See Hance, William A., assignor.)						
Stover, Edward C., Trenton, N. J., assignor to Trenton Potteries Company, of New Jersey. Flushing apparatus for sanitary or other fixtures	624,569	May 9	1156	259	87	946
Stover, F. C. (See Kohler, Louis C., assignor.)						
Stover, Frank E. (See Grove and Stover.)						
Stover Manufacturing Company. (See Held, August S., assignor.)						
Stover Manufacturing Company. (See Muir, John, assignor.)						
Stover Manufacturing Company. (See Ziegler, Oscar J., assignor.)						
Stow, John O., Lawrence, Mich. Car-coupling	619,699	Feb. 14	1654	380	86	1150
Stowe, Larkin, Knoxville, Tenn. Door-operating mechanism	631,883	Aug. 29	3993	893	88	1570
Stowe, Robert H. (See Fite, Cephas V., assignor.)						
Stowe, Robert H., *et al.* (See Huffstickler, Noah G., assignor.)						
Stowell, Charles F., and A. C. Cunningham, Albany, N. Y. Wall	629,477	July 25	2845	660, 661	88	610
Stowell, Elmer H. (See Terry and Stowell.)						
Stoy, Hiram P., Defiance, Ohio. Shoe-plate	626,576	June 6	645	150	87	1740
Stoyer, Levi, Grove City, Pa. Anvil-vise	620,001	Feb. 21	2206	502	86	1281
Strabala, Joseph W., Kalona, Iowa. Churn	627,150	June 20	1730	380	87	1988
Strache, Hugo, Vienna, Austria-Hungary, assignor to Société Internationale du Gaz D'Eau, Brevets Strache, Société Anonyme, Brussels, Belgium. Switching device for gas-generators	633,168	Sept. 19	1827	430	88	2093
Strader, Wilson P., Lexington, Ky. Card-advertising novelty	636,581	Nov. 7	622	137	89	1048
Straight, George W., Chicago, Ill. Truck	637,044	Nov. 14	1566	337	89	1263
Straker, Sidney, assignor to Central Cyclone Company, Limited, London, England. Pulverizing or grinding machine	625,212	May 16	2284	520, 521	87	1181
Strakosch, Max. assignor to J. Hofmeier, Vienna, Austria-Hungary. Gas-burner	628,561	July 11	1157	271	88	243
Strakosch, Max, assignor to J. Hofmeier, Vienna, Austria-Hungary. Acetylene-gas lamp	628,964	July 18	1907	443	88	408
Strand, Charles, *et al.* (See Hockerson, Nels, Jr., assignor.)						
Strang, Relly D., Bronson, Mich. Envelop-opener	636,468	Nov. 7	403	90	89	1002
Strang, William, Jr., Glasgow, Scotland. Textile fabric	628,867	July 11	1721	402	88	355
Strange, Daniel, Lansing, Mich. Interest-measure	634,040	Oct. 3	99	26	89	24
Strasburger, Frank C. H., Chicago, Ill. Machine for branding corks	631,388	Aug. 22	3088	699	88	1382
Strater, Theodore G., Boston, Mass. Coupling for multiple-delivery faucets	626,447	June 6	430	101	87	1697
Strattner, Frederick, Salisbury, Md. Life-preserver	639,790	Dec. 26	2972	684	89	2505
Stratton, John C., assignor of one-third to R. S. Stratton, Oxford, Kans. Trace-support	621,868	Mar. 28	2475	552	86	2023
Stratton, Robert S. (See Stratton, John C., assignor.)						
Straub, Carl, Otisco Valley, N. Y. Treating calcium oxid	636,865	Nov. 14	1211	------	89	1193
Straub, Carl, Otisco Valley, N. Y. Composition for cement, plaster, &c	636,866	Nov. 14	1212	------	89	1194
Straub, Justus, *et al.* (See Kline, Albert H., assignor.)						
Straube, Richard, Lauenstein, assignor to C. Kursawe, Dresden, Germany. Combined rocking-chair and bath	633,398	Sept. 19	2278	536	88	2181
Straup, Daniel N., *et al.* (See Knapp, Willis, assignor.)						
Strauss, Bernhard, New York, N. Y. Burner attachment	617,200	Jan. 3	643	150	86	126
Strauss, Charles H., assignor of one-half to C. Anderson, Port Gamble, Wash. Window-sash worker	621,174	Mar. 14	1194	260	86	1746
Strauss, Ferdinand, East Orange, N. J. Harmonica	628,640	July 11	1327	309	88	276
Strauss, Gustavus E. (See Klahn, Emil, assignor.)						
Strauss, Samuel, and J. Harding, Franklin, Ohio. Label-holding book	619,054	Feb. 7	491	105	86	906
Strauss & Sons, Jacob. (See Goldner, Simon, assignor.)						
Stravlo, Christian J., St. Louis, Mo. Sample-case	630,129	Aug. 1	751	162	88	872
Stream, Edgar L., New Orleans, La. Filter	622,561	Apr. 4	681	158	87	129
Streat, Herbert G., New York, N. Y. Bicycle-crate	629,049	July 18	2057	478	88	438
Street, Clement F., assignor to Dayton Malleable Iron Company, Dayton, Ohio. Center plate for railway-cars	639,311	Dec. 19	2062	474	89	2304
Street, Ernest A. G., Paris, France. Making explosives	625,365	May 23	2579	------	87	1263
Street, Ernest A. G., Paris, France. Explosive and making same	625,908	May 30	3568	------	87	1472
Street, George P., Sr., Elkton, and B. H. Coursey, Sharon Grove, Ky. Folding seat	633,399	Sept. 19	2279	537	88	2181
Street, John H., assignor to Willans & Robinson, Limited, Rugby, England. Steam-engine	636,929	Nov. 14	1354	289	89	1220
Street, Leeroy P., Reedsville, Tex. Planter	617,821	Jan. 17	1856	413	86	399
Streeter, Alfred L., Chicago, Ill. Brake-shoe	624,262	May 2	582	125	87	816
Streeter, Alfred L., Chicago, Ill. Brake-shoe	624,263	May 2	584	125	87	810
Streeter, Nelson R., Groton, N. Y. Twine-holder	629,018	July 18	2001	466	88	427
Streetman, Willard, Cleburne, Tex. Method of and apparatus for casting dental aluminium plates	633,222	Sept. 19	1942	456, 457	88	2117
Streitz, Jacob. (See Stinchcomb and Streitz.)						
Streng, William J., Detroit, Mich. Wheeled chair	617,058	Jan. 3	390	95	86	76
Streng, William J., Detroit, Mich. Perambulator	636,582	Nov. 7	623	137	89	1048
Stretch, Elmer B., Philadelphia, Pa. Manifolding-book	618,919	Feb. 7	190	41	86	842
Streubel, Alexander, Hamburg, Germany. Gas-cock for gas-burners	627,019	June 13	1502	328, 329	87	1924
Streubel, Otto, Paris, France. Process of and apparatus for sterilizing or pasteurizing wines or other liquids	627,740	June 27	2848	624	87	2226
Stricker, William F., Nashville, Ill. Washing-machine	629,702	July 25	3244	755	88	686
Strickland, Joseph C., Wallaceton, Pa. Clothes-rack	617,611	Jan. 10	1427	325	86	297
Strickler, Levi, Richmond, Ind. Curtain-fixture	624,570	May 9	1157	259	87	947
Strickler, Peter G., Janesville, Wis. Elevated carrier	638,366	Dec. 5	351	74	89	1933
Strifler, Chester E., St. Louis, Mo. Lumber-bracket	624,571	May 9	1158	259	87	947
Strobel, Charles L., Chicago, Ill. Movable bridge	617,201	Jan. 3	644	150, 151	86	127
Strobel, Robert F., Cannelton, Ind. Tag-holder	638,654	Dec. 5	872	190	89	2034
Strobridge, Samuel, Boyne City, Mich. Pump-head	628,170	July 4	397	93	88	80

Alphabetical list of patentees—Continued.

Name, residence, and invention.	No.	Date.	Monthly volume. Spec.	Monthly volume. Dr'g.	Official Gazette. Vol.	Official Gazette. Page.
Stroh, Fredrick, New York, N. Y. Stringed musical instrument	631,188	Aug. 15	2711	614	88	1290
Stroh, Freeman W., and J. M. McIntosh, Barberton, Ohio. Sawmill	617,784	Jan. 17	1772	397	86	383
Strohmeyer Henry L., *et al.* (See Hachmann, Frederick, assignor.)						
Strom, Axel A., Austin, assignor to Strom Manufacturing Company, Chicago, Ill. Joining railway-rails of differential size	617,059	Jan. 3	391	95	86	76
Strom Manufacturing Company. (See Strom, Axel A., assignor.)						
Strom, Axel A., Austin, assignor to Strom Manufacturing Company, Chicago, Ill. Railway-switch	625,961	May 30	3664	831	87	1491
Strom, Axel A., Austin, assignor to Walmsley & Company, Chicago, Ill. Acetylene-gas apparatus	628,641	July 11	1327	309, 310	88	276
Strom, Axel A., Austin, assignor to Walmsley & Company, Chicago, Ill. Gas-holder	628,868	July 11	1723	402	88	356
Strom, Axel A., Austin, assignor to Walmsley & Company, Chicago, Ill. Acetylene-gas apparatus	629,971	Aug. 1	456	98,99	88	813
Strom, Axel A., Austin, assignor to Walmsley & Company, Chicago, Ill. Safety device for gas-holders	636,583	Nov. 7	624	137	89	1048
Strom, Gilbert S., White Rock, Minn. Machine for welding and shaping plowshares	633,921	Sept. 26	3204	747	88	2378
Strom Manufacturing Company. (See Strom, Axel A., assignor.)						
Stromberg-Carlson Manufacturing Company. (See Davis, William M., assignor.)						
Stromberg-Carlson Telephone Manufacturing Company. (See Davis, William M., assignor.)						
Stromeyer, Julius, Philadelphia, Pa. Wagon-brake	629,403	July 25	2703	629	88	583
Strong, Frank L., *et al.* (See Langworthy, David I., assignor.)						
Strong, Franklin B., Greenfield, Mo. Domestic boiler	631,682	Aug. 22	3621	816	88	1489
Strong, George S., New York, N. Y. Boiler	631,830	Aug. 29	3898	871, 872	88	1551
Strong, George S., New York, N. Y., assignor to J. P. Murphy, Philadelphia, Pa. Clutch and clutch-actuated mechanism	631,831	Aug. 29	3901	873	88	1552
Strong, George S., New York, N. Y., assignor to J. P. Murphy, Philadelphia, Pa. Wheel and axle	[illegible]	Oct. 31	3837	882	89	816
Strong, George S., New York, N. Y., assignor to J. P. Murphy, Philadelphia, Pa. Running-gear for automobile vehicles	637,296	Nov. 21	2072	444	89	1374
Strong, George S., New York, N. Y., assignor to J. P. Murphy, Philadelphia, Pa. Power-transmitting mechanism	637,297	Nov. 21	2074	444, 445, 446	89	1374
Strong, George S., New York, N. Y., assignor to J. P. Murphy, Philadelphia, Pa. Gas-engine	637,298	Nov. 21	2079	446, 447, 448	89	1375
Strong, George S., New York, N. Y., assignor to J. P. Murphy, Philadelphia, Pa. Oil-vaporizing device for gas-engines	637,299	Nov. 21	2083	449	89	1376
Strong, George S., New York, N. Y., assignor to J. P. Murphy, Philadelphia, Pa. Crank-shaft	637,300	Nov. 21	2085	449	89	1376
Strong, George S., New York, N. Y., assignor to J. P. Murphy, Philadelphia, Pa. Shaft controlling and starting mechanism	637,301	Nov. 21	2086	449, 450	89	1377
Strong, George S., New York, N. Y., assignor to J. P. Murphy, Philadelphia, Pa. Sparking-igniter for explosive-engines	637,302	Nov. 21	2088	450	89	1377
Strong, William H., Sardinia, N Y. Thill-coupling	617,972	Jan. 17	2117	474	86	453
Stroop, William. (See Shupert and Stroop.)						
Strout, Joseph M., Portland, Me. Weeding-tool	630,946	Aug. 15	2274	518	88	1204
Strowger Automatic Telephone Exchange. (See Keith and Erickson, assignors.)						
Struck, Gustav, Berlin, Germany Starting device for hydrocarbon-engines	619,238	Feb. 7	830	182	86	975
Strunk, Frank R., Springfield, Mo. Rotary engine	619,801	Feb. 21	1868	426	86	1218
Strupp, Ferdinand A. (See Weigand, John B., assignor.)						
Struss, Henry W., New York, N. Y. Ribbon-wire	621,435	Mar. 21	1652	365	86	1846
Struss, Henry W., New York, N. Y. Power-transmitting device	621,436	Mar. 21	1653	365	86	1847
Struthers, Alvin D. (See Dodd and Struthers.)						
Stuart, Charles A., Chicago, Ill. Device for treating feet of horses	626,313	June 6	172	41	87	1646
Stuart, Francis G., assignor of one-half to A. Hazard, Philadelphia, Pa. Bottle-stopper	633,169	Sept. 19	1828	430	88	2093
Stuart, Fred W., Beverly, assignor to C. V. Mason, Salem, Mass. Last	631,236	Aug. 15	2788	632	88	1305
Stuart, Henry A., New York, N. Y. Lock for gas-keys	633,400	Sept. 19	2280	537	88	2181
Stuart, Henry J., and D. D. Woodman, Swain, N. Y. Lightning-rod	636,081	Oct. 31	4004	915	89	848
Stuart, Ithamer W., Rich Hill, assignor to W. B. Lewis and J. M. Ratekin, Cedar county, Mo. Hay-press	630,785	Aug. 8	1980	447	88	1122
Stuart, John E., Winchester, Cal. Apparatus for mining in frozen earth	635,522	Oct. 24	2898	661, 662	89	621
Stuart, L. C., *et al.* (See Kern, Isaac R., assignor.)						
Stuart, William T. (See Sapp, Isaac H., assignor.)						
Stubbs, Frederic. (See Martino and Stubbs.)						
Stubbs, Jesse, assignor to Iowa Ballast and Improvement Company, Mount Pleasant, Iowa. Excavating-machine	619,802	Feb. 21	1870	426, 427	86	1218
Stuckel, Frank C., assignor to J. I. Case Threshing Machine Company, Racine, Wis. Cross-conveyer for threshing-machines	626,108	May 30	4006	914	87	1552
Stuckel, Frank C., assignor to J. I. Case Threshing Machine Company, Racine, Wis. Automatic weigher	634,375	Oct. 3	772	184	89	153
Stuckey, Clement L. (See Brockschmidt and Stuckey.)						
Stuckwisch, Rudolph, Indianapolis, Ind. Combined land-roller and seed-planter	626,011	May 30	3801	865	87	1517
Studdiford, Augustus, Liberty, N. Y. Photographic washing apparatus	633,922	Sept. 26	3206	747	88	2378
Studer, Conrad, New York, N. Y. Permutation-padlock	638,076	Nov. 28	3885	818	89	1794
Studle, Charley A., assignor of one-half to C. Morrison, Hays, Ky. Planter and fertilizer-distributer	638,295	Dec. 5	205	43,44	89	1905
Stuebner, Gustavus L. (See Case, Charles A., assignor.)						
Stuebner, Gustavus L., New York, N. Y. Flexible car-truck	629,050	July 18	2058	479	88	438
Stuempfle, Herman, and J. Delane, Terre Haute, Ind. Attachment for electric trolleys	631,596	Aug. 22	3482	787	88	1461
Stueve, Robert C. L., Cleveland, Ohio. Match-safe	638,998	Dec. 12	1512	346	89	2180
Stühler, Martin. (See Dörr and Stühler.)						
Stuke, John H., Beardstown, Ill. Saw-set	617,612	Jan. 10	1428	325	86	297
Stukes, John M., assignor to J. A. Bean, E. K. Smith, and Nunn Brothers, Snyder, Tex. Spraying apparatus	617,822	Jan. 17	1851	413, 414	86	400
Stull, William C., New Whatcom, Wash. Folding window-scaffold	625,813	May 30	3390	769	87	1438
Stump, Abraham L., and F. Brucker, assignors of one-half to J. A. Seltzer and H. W. Steel, Shelby, Ohio. Spring-hinge	637,218	Nov. 14	1922	411, 412	89	1329
Stump, Preston V., Chama, N. Mex. Ter. Whip-support	635,201	Oct. 17	2261	527	89	480
Stump, William G. H. (See Ferguson, William J., assignor.)						
Stumpf, John, Berlin, Germany. High-speed pump	632,001	Aug. 29	4205	946, 947	88	1611
Stürcke, Herman E., New York, assignor to H. C. Higginson, Newburg, N. Y. Manufacture of plaster and restrainers	619,911	Feb. 21	2059	------	86	1254

Alphabetical list of patentees—Continued.

Name, residence, and invention.	No.	Date.	Monthly volume.		Official Gazette.	
			Spec.	Dr'g.	Vol.	Page.
Sturdavant, Willie E., Springfield, Mo. Metallic car-roof	627,151	June 20	1732	380	87	1988
Sturgeon, John H., Winslow, Ind. Grain-separator	626,818	June 13	1101	247, 248	87	1845
Sturges, Charles L., Escondido, Cal. Tallying apparatus	627,360	June 20	2135	470	87	2070
Sturges, James W., Bogota, N. J. Puzzle	617,060	Jan. 3	392	95	86	76
Sturges, Lee, Chicago, Ill. Bicycle, &c	634,707	Oct. 10	1355	320	89	287
Sturgess, George F., Leicester, England. Chain-gear	618,190	Jan. 24	2566	567	86	550
Sturgess, George F., Leicester, England. Winding-machine	625,855	May 30	3463	786	87	1453
Sturgess, George F., Leicester, England. Knitting-machine	625,856	May 30	3466	786	87	1453
Sturgess, George F., Leicester, England. Knitting-machine	632,327	Sept. 5	219	51, 52	88	1750
Sturgess, George F., Leicester, England. Needle for knitting-machines	636,584	Nov. 7	625	138	89	1049
Sturgess, William J., Birmingham, England. Clip for velocipede-saddles	624,572	May 9	1159	260	87	947
Sturgis, Herbert M., Kansas City, Mo. Window-shade adjuster	620,991	Mar. 14	860	187	86	1681
Sturgis, Herbert M., Kansas City, Mo. Window-shade adjuster	636,082	Oct. 31	4006	916	89	849
Sturgis, Herbert M., Dallas, Tex. Combination shade roller and lock	626,577	June 6	647	150	87	1740
Sturgis, Nelson H., Guthrie, Okla. Ter. Suspension-bridge	629,935	Aug. 1	375	81, 82	88	797
Sturm, Henri, Perreux, France. Flying scaffolding or staging	624,573	May 9	1161	260	87	947
Sturm, Lydia K., Duluth, Minn., assignor to Metropolitan Life Insurance Company, New York, N. Y. Time-calculator	629,879	Aug. 1	239	53	88	767
Sturn, Bernard J., *et al.* (See Robinson, Frank, assignor.)						
Sturtevant, Charles L., administrator. (See Lowe, Samuel.)						
Sturtevant, Jennie L., Gilroy, Cal. Curtain-ring	621,175	Mar. 14	1196	260	86	1746
Sturtevant, Thomas J. (See Sturtevant, Thomas L. and T. J.)						
Sturtevant, Thomas J., Framingham, Mass. Gas-engine	634,509	Oct. 10	1007	240, 241	89	219
Sturtevant, Thomas L., Quincy, and T. J. Sturtevant, Framingham, Mass. Grinding-mill	630,574	Aug. 8	1628	363, 364	88	1053
Sturtevant, Thomas L., Quincy, and T. J. Sturtevant, Framingham, Mass. Grinding-mill	636,469	Nov. 7	404	90	89	1002
Sturtevant, Thomas L., Quincy, and T. J. Sturtevant, Newton, Mass. Water-feed regulator	636,470	Nov. 7	408	90, 91	89	1003
Stuth, Frederick, Somers Point, N. J. Mechanism for operating bilge-pumps	630,130	Aug. 1	753	162	88	872
Stutsman, Reuben O., assignor to Bartholomew Company, Des Moines, Iowa. Spoke-fastening machine	620,378	Feb. 28	2882	659, 660	86	1425
Stuttmann, Alexander, Russelheim, Germany. Electric-arc lamp	630,470	Aug. 8	1441	322	88	1017
Stutzman, August, St. Paul, Minn. Traction-engine	622,729	Apr. 11	985	229	87	206
Stutzman, Frank, Williamsport, Pa. Reversing-gear for motor-vehicles	630,471	Aug. 8	1443	322	88	1018
Stuver, Eugene E., Blue Mound, Ill. Axle and bearing	634,774	Oct. 10	1472	346	89	309
Stynsberg, John, Biwabik, Minn. Monkey-wrench	621,869	Mar. 28	2476	553	86	2023
Styron, John L., Newark, Ohio. Acetylene-gas generator	617,262	Jan. 3	758	177	86	150
Suber, Albert A., Deshler, Ohio. Plow-point	632,071	Aug. 29	4340	975	88	1636
Succie, Fred, Brewer, Me. Guide-flange for paper-rolling machinery	619,803	Feb. 21	1872	427	86	1218
Suckert, Julius J. (See Dickerson and Suckert.)						
Suckert, Julius J., *et al.* (See Vincent, Joseph A., assignor.)						
Suderman, Charles T., and G. W. Lacy, Galveston, Tex. Grain-trimming machine used in loading vessels	634,775	Oct. 10	1474	347	89	310
Suell, Pleasant L., Horse Creek, Ala. Conveyer	625,213	May 16	2286	521	87	1181
Suettinger, Robert H., Two Rivers, Wis. Lid and card holder	639,312	Dec. 19	2063	474	89	2304
Sui, Ding Cie, assignor to G. S. Miner and W. N. Brewster, Foo Chow, China. Machine for and process of spinning	626,195	May 30	4185	951	87	1587
Sullivan, Arthur R., Rome, Ga. Singletree-hook	617,263	Jan. 3	759	177	86	150
Sullivan, Cornelius, Newark, N. J. Syringe	631,971	Aug. 29	4143	932	88	1599
Sullivan, Daniel, St. Louis, Mo. Coin-controlled newspaper-vending machine	625,428	May 23	2684	611, 612	87	1283
Sullivan, Daniel, Chicago, Ill. Digester	639,791	Dec. 26	2974	684	89	2505
Sullivan, Daniel F., assignor to D. J. Murphy, Lowell, Mass. Knitting-machine	629,880	Aug. 1	240	54	88	767
Sullivan, Daniel F., assignor of one-half to J. A. Cawley, Lowell, Mass. Striper attachment for knitting-machines	634,510	Oct. 10	1012	242	89	220
Sullivan, Edgar W., El Reno, Okla. Ter. Dish-washer	622,730	Apr. 11	987	229	87	207
Sullivan, Elizabeth. (See Curran, Thomas, assignor.)						
Sullivan, Franklin M. (See Newell and Sullivan.)						
Sullivan, James, New York, N. Y. Awning fixture	631,597	Aug. 22	3484	787	88	1462
Sullivan, James, Concord, N. H. Tool-handle	637,045	Nov. 14	1567	338	89	1263
Sullivan, John H., Grand Rapids, Mich. Combined whip and rein holder	622,931	Apr. 11	1349	310	87	276
Sullivan, John H., Grand Rapids, Mich. Repair-tool for use by electric linemen	639,792	Dec. 26	2975	684	89	2506
Sullivan, John J. (See Thomas, Eddy T., assignor.)						
Sullivan, John J., Ipswich, Mass. Thread-cutter	623,294	Apr. 18	2036	468	87	427
Sullivan, Josiah L. (See Runyan and Sullivan.)						
Sullivan Machinery Company. (See Ball, Albert, assignor.)						
Sullivan Machinery Company. (See Officer, Thomas, assignor.)						
Sullivan, Mary A. (See Howard, Edward J., assignor.)						
Sullivan, Michael J., and M. J. O'Connor, assignors of one-third to E. Provost, Holyoke, Mass. Illuminated sign	635,202	Oct. 17	2263	528	89	481
Sullivan, Owen, Fredericksburg, Iowa. Railway angle-bar	637,180	Nov. 14	1844	395	89	1314
Sullivan, Patrick F. (See Bancroft, Charles F., assignor.)						
Sullivan, Timothy J. (See Besley and Sullivan.)						
Sullo, Nicholas, Wakefield, Mass. Musical instrument	632,855	Sept. 12	1226	281	88	1966
Sully, James, New York, N. Y. Galvanic battery	624,574	May 9	1161	260	87	947
Sulzbacher, Charles S., Wilkes-Barré, Pa. Pitcher	617,973	Jan. 17	2118	475	86	453
Sulzberger, Cyrus L., New York, N. Y. Skirt-binding	628,368	July 4	785	182	88	151
Suman, Samuel M., Riverside, Cal. Water-filter	623,439	Apr. 18	2289	524	87	478
Summerlott, Charles A., Washington, D. C., assignor of one-half to F. Loeber, Baltimore, Md. Building-block	630,012	Aug. 1	538	118	88	830
Summers, Bertrand S., assignor of one-half to C. O. Boring, Chicago, Ill. Refining vegetable fiber	616,988	Jan. 3	236	------	86	47
Summers Fallow Machine Company. (See Anderson, Milton J., assignor.)						
Summers, Henry, *et al.* (See Berry, Charles M., assignor.)						
Summers, James E., assignor to Summers Marble Company, Lynchburg, Va. Manufacture of artificial marble	635,005	Oct. 17	1882	------	89	407
Summers, James E., assignor to Summers Marble Company, Lynchburg, Va. Artificial marble or stone	639,914	Dec. 26	3190	------	89	2548
Summers, John C., Mount Hope, Ohio. Hay rake and loader	621,176	Mar. 14	1196	260, 261	86	1746
Summers Manufacturing Company. (See Summers, William T., assignor.)						
Summers Marble Company. (See Summers, James E., assignor.)						
Summers, William, Piqua, Ohio. Combined sheet and pair furnace	633,372	Sept. 19	2225	524, 525	88	2171

Alphabetical list of patentees—Continued.

Name, residence, and invention.	No.	Date.	Monthly volume.		Official Gazette.	
			Spec.	Dr'g.	Vol.	Page.
Summers, William T., St. Paul, Minn., assignor to Summers Manufacturing Company, Columbus, Ohio. Coin-controlled holding and locking device	627,361	June 20	2137	470, 471	87	2070
Sumner, George, and H. A. Webber, Braintree, Mass. Press	635,083	Oct. 17	2040	481	89	440
Sumner, Joseph J., *et al.* (See Hadfield, Henry, assignor.)						
Sun Manufacturing Company. (See Ellis, George R., assignor.)						
Sun Vapor Stove Company. (See Mummery, Edwin G., assignor.)						
Sunderland, Frederick, and G. Marshall, Birmingham, England. Acetylene-lamp	638,153	Nov. 28	4060	856, 857	89	1826
Sunderlin, Martin J., Watkins, N. Y. Carbon-holder for type-writers	617,841	Jan. 17	1880	419	86	405
Sundh, August. (See Douglas and Sundh.)						
Sundh, August, Yonkers, N. Y. Protective casing for electric cables or wires	630,634	Aug. 8	1743	391	88	1075
Sundh, August, Yonkers, N. Y. Protective casing for electric cables or wires	630,635	Aug. 8	1744	391	88	1075
Sundh, August, Yonkers, N. Y. Protective casing for electric cables or wires	630,636	Aug. 8	1745	391	88	1075
Sundh, August, Yonkers, N. Y. Protective casing for electric cables or wires	630,637	Aug. 8	1746	391	88	1076
Sundh, August, Yonkers, N. Y. Compressed-air motor apparatus	639,947	Dec. 26	3246	744	89	2558
Sundh, August, Yonkers, N. Y. Junction-box or other coupling for casings for electric cables or wires	639,948	Dec. 26	3247	744	89	2559
Sundstrom, Carl A., Philadelphia, Pa. Stamp-affixing device	635,203	Oct. 17	2266	528	89	481
Sunne, Andrew A., and L. C. Olson, Rhinelander, Wis. Cutting or slicing machine	624,991	May 16	1907	428	87	1111
Superior Drill Company. (See Buchwalter and Oates, assignors.)						
Superior Drill Company. (See Packham, Frank R., assignor.)						
Superior Drill Company. (See Packham, Thomas R., assignor.)						
Superior Drill Company. (See Packham and Oates, assignors.)						
Superior Electric Company. (See Wilson, David H., assignor.)						
Superior Toe-Calk Company. (See Varney, Joseph T., assignor.)						
Suppes, Maximilian M., Lorain, Ohio. Casting plant	618,447	Jan. 31	3046	674	86	655
Suppes, Maximilian M., Elyria, Ohio. Blast-furnace	627,545	June 27	2489	547	87	2155
Suppes, Maximilian M., Elyria, Ohio. Blast-furnace	635,157	Oct. 17	2191	511, 512	89	467
Suppes, Maximilian M., Elyria, Ohio. Expansion-joint for engines	638,891	Dec. 12	1308	297	89	2141
Suprunowski, Joseph N., Mode, assignor of one-half to D. E. Elliott, Shelbyville, Ill. Folding coop	626,109	May 30	4008	914, 915	87	1552
Surgi, George E., New Orleans, La. Adjustable and portable track-section	620,992	Mar. 14	862	188	86	1681
Surgi, George E., New Orleans, La. Channeling comminutor	624,400	May 2	832	187, 188	87	860
Surman, John G., Healing, England. Non-refillable bottle	636,585	Nov. 7	627	138	89	1049
Susemihl, Francis G., Detroit, Mich. Brake-beam	627,020	June 13	1504	329	87	1924
Sutcliffe, Harry. (See Sutcliffe, John W. and H.)						
Sutcliffe, John W. and H., London, England. Shirt-ironing machine	634,376	Oct. 3	774	185	89	154
Sutcliffe, William, Sowerby Bridge, England. Device for separating dust from various materials	619,912	Feb. 21	2061	467	86	1255
Suters, Thomas, assignor to A. N. Russell & Sons, Ilion, N. Y. Display-cabinet	637,361	Nov. 21	2207	475	89	1402
Sutherland, Alexander M. (See Pihl, Carl J., assignor.)						
Sutherland, Mosher A., Passaic, N. J. Drier	635,158	Oct. 17	2193	512	89	468
Sutphen, John E., Albany, N. Y. Amalgamating ores of gold and silver	622,295	Apr. 4	181	39	87	34
Sutphen, John E., Albany, N. Y. Ore-amalgamator	628,499	July 11	1023	238	88	217
Sutter, Jacob. (See Kunz, Albert, assignor.)						
Sutton, Charles E., Toledo, Ohio. Power mechanism for pumping oil-wells	627,604	June 27	2613	574, 575	87	2179
Sutton, Charles H., Lee, Pa. Machine for regulating flow in chutes, &c	624,126	May 2	335	69	87	764
Sutton, Festus P., Lowell, Ind. Clover-hulling attachment for threshing-machines	633,923	Sept. 26	3207	747	88	2378
Sutton, George C., Bison, Kans. Spring-draft appliance and tongue-support	636,219	Oct. 31	4243	975	89	897
Sutton, John R. (See Vaughan, Charles W., assignor.)						
Sutton, John W., New York, N. Y. Machine for plucking pelts	618,625	Jan. 31	3357	746, 747	86	715
Sutton, John W., New York, N. Y. Machine for plucking pelts	635,879	Oct. 31	3572	822	89	763
Sutton, Joseph G., Seneca, Mo. Siphon-filter	622,562	Apr. 4	682	159	87	130
Sutton, William P., Toronto, Canada. Electromedical apparatus	633,223	Sept. 19	1945	457	88	2117
Sutton, William S., Belvidere, Ill. Watch guard or protector	635,611	Oct. 24	3057	702	89	650
Suydam, L. N. (See Walker, Lucian B., assignor.)						
Svanström, Olof, Diö, Sweden. Puzzle	619,804	Feb. 21	1874	427	86	1218
Svensson, Johan A., Washington, D. C. Printing-press	634,311	Oct. 3	647	157, 158	89	131
Swaab, Alfred J., and R. de Lamprecht, London, England. Flash-lamp	638,820	Dec. 12	1186	266	89	2118
Swaab, Alfred J., and R. de Lamprecht, London, England. Exhibition and musical apparatus	637,904	Nov. 28	3580	750	89	1734
Swaby, William A., Chicago, Ill Drive-well point	634,312	Oct. 3	650	158	89	132
Swacick, Judson D., Canton, Ohio. Hay-elevator	635,110	Oct. 17	2102	493	89	451
Swacick, Judson D., assignor to Ney Manufacturing Company, Canton, Ohio. Knife for cutting hay or cane	632,287	Sept. 5	152	35	88	1737
Swahn, Adolph, Ellsworth, Wis. Tire-fastener	630,472	Aug. 8	1445	322	88	1018
Swaim, Charles E. (See Vail, Joseph, assignor.)						
Swain, Charles F. (See Bush and Swain.)						
Swain, Leonard H. (See Swain, Walter and L. H.)						
Swain, Walter and L. H., Bolton, England. Tire for wheels of road-vehicles	638,605	Dec. 5	788	170	89	2017
Swain, Walter and L. H., Bolton, England. Machine for manufacturing inflatable tires	639,949	Dec. 26	3249	745	89	2559
Swalley, Henry, Milwaukee, Wis. Ledger balance-sheet	619,366	Feb. 14	1058	237	86	1036
Swalley, Henry, Milwaukee, Wis. Ledger balance-sheet	629,404	July 25	2704	629	88	583
Swallow, John H. (See Sackville and Swallow.)						
Swan, Charles E., Chicago, Ill. Car-wheel	631,548	Aug. 22	3390	767	88	1443
Swan, George E., Beaver Dam, Wis. Heel-spring for boots or shoes	631,683	Aug. 22	3622	816	88	1489
Swan, Henry C., Oshkosh, Wis. King-bolt socket	622,904	Apr. 11	1302	300	87	265
Swan, Henry C., Oshkosh, Wis. Fifth-wheel for vehicles	623,342	Apr. 18	2121	486, 487	87	443
Swan, Henry C., Oshkosh, Wis. Clamp for vehicles	626,877	June 13	1254	275	87	1875
Swan, Henry C., Oshkosh, Wis. Brake-shoe for vehicles	627,605	June 27	2614	575	87	2180
Swan, Henry C., Oshkosh, Wis. Thill-coupling	628,255	July 4	570	136	88	111
Swan, Henry C., Oshkosh, Wis. Spring-coupling	628,869	July 11	1724	403	88	356
Swan, Henry C., Oshkosh, Wis. Journal-box	629,051	July 18	2059	479	88	439
Swan, Thomas, Flint, Mich. Upholsterer's form	632,475	Sept. 5	486	111	88	1803
Swan, William H., Kankakee, Ill. Churn-dasher	634,377	Oct. 3	776	185	89	154
Swann, Richard T., Dallas, Tex. Exhibition-cabinet	621,870	Mar. 28	2477	553	86	2023
Swanson, Joseph A., Orion, Ill. Hay-tedder	617,202	Jan. 3	648	152	86	127
Swanson, Swan F., Pueblo, Colo. Water-wheel	617,061	Jan. 3	394	96	86	76
Swanson, Swan F., Pueblo, Colo. Cushion-tire	619,447	Feb. 14	1205	274	86	1063
Swanson, Swan F., Pueblo, Colo. Railway-tie	621,981	Mar. 28	2705	610	86	2065

Alphabetical list of patentees—Continued.

Name, residence, and invention.	No.	Date.	Monthly volume.		Official Gazette.	
			Spec.	Dr'g.	Vol.	Page.
Swarbrick, William, Aintree, England. Spring-roller for window-blinds	625,366	May 23	2580	587	87	1263
Swarm, Levi, St. James, Ill. Hay-ricker	625,857	May 30	3468	786	87	1454
Swarthout, George M., assignor of one-third to C. W. Cash, Cincinnati, Ohio. Hydro-carbon-burner	626,509	June 6	538	124	87	1718
Swarthout, Ralph S., Williamston, Mich., assignor to Keystone Manufacturing Company, Rock Falls, Ill. Combined corn-husker and fodder-shredder	637,534	Nov. 21	2514	545	89	1462
Swarts, Homer E., Waukesha, Wis. Music-leaf turner	634,279	Oct. 3	582	144	89	116
Swartwood, Horatio R., Tracy, Minn. Sash-holder	633,924	Sept. 26	3209	747	88	2379
Swartz, Richard, Pine Bluff, Ark. Warming vessel	633,706	Sept. 26	2846	661	88	2306
Swartz, Richard, Pine Bluff, Ark. Warming vessel	633,707	Sept. 26	2847	622	88	2306
Swartz, Robert E., Creston, Iowa. Dish washer and drier	620,682	Mar. 7	256	52	86	1552
Swartzwelder, Daniel H., assignor of one-half to C. A. Hunt, Charlesville, Pa. Mattress	633,968	Sept. 26	3291	767	88	2395
Swasey, Ambrose, assignor to Warner & Swasey, Cleveland, Ohio. Turret-operating mechanism	632,906	Sept. 12	1336	306 307	88	1985
Swasey, Ambrose, and H. M. Lucas, assignors to Warner & Swasey, Cleveland, Ohio. Turret-lathe	632,905	Sept. 12	1333	306	88	1984
Swasey, Ambrose, and W. M. Allen, assignors to Warner & Swasey, Cleveland, Ohio. Friction-clutch	633,925	Sept. 26	3210	748	88	2379
Swatosch, Leopold, *et al.* (See Kubica, Paul, assignor.)						
Swearingen, Benoni. (See Hollyman and Swearingen.)						
Swearingen, Samuel H., Hedrick, Iowa. Hame and trace coupling	633,401	Sept. 19	2281	537	88	2181
Sweatt, Louis B. (See McMichael, William, assignor.)						
Sweeney, Frank G., *et al.* (See Gibbs, Harry T., assignor.)						
Sweeney, George W. W., Nashville, Tenn. Mail-cart	633,495	Sept. 19	2433	573	88	2211
Sweeney, Henry G., assignor to himself and H. W. Fairbanks, Chicago, Ill. Toll-collecting apparatus for telephones	636,418	Nov. 7	316	71,72	89	984
Sweeney, Samuel, Los Angeles, Cal. Ice-cream freezer	632,856	Sept. 12	1227	281	88	1967
Sweet, Frank B., Lawrence, Kans. Suspenders	638,999	Dec. 12	1513	347	89	2181
Sweet, John E., Syracuse, N. Y. Steam-separator	624,575	May 9	1163	261	87	948
Sweet, John M., assignor to F. Richardson, trustee, Batavia, N. Y. Tire for vehicle-wheels	636,930	Nov. 14	1355	289	89	1220
Sweet, John M., assignor to F. Richardson, trustee, Batavia, N. Y. Tire for vehicle-wheels	636,931	Nov. 14	1357	290	89	1221
Sweet, Warren, Fort Wayne, Ind. Washing-machine	629,625	July 25	3119	725 726	88	662
Sweet, William M., Darlington, Wis. Bicycle	634,098	Oct. 3	200	50	89	44
Sweetland, Alonzo, Talmage, Cal. Propeller for vessels	637,181	Nov. 14	1845	395	89	1314
Sweetser, Alfred, London, and A. Pringle, Bexleyheath, England. Vessel for containing compressed or liquefied gases	636,083	Oct. 31	4008	916	89	849
Swem, Ole P., Tacoma, Wash. Acetylene-gas generator	636,586	Nov. 7	628	138	89	1049
Swendsen, John D. W., *et al.* (See Foulke, Frank V., assignor.)						
Sweney, Don, Champaign, Ill. Exhaust-nozzle for locomotives	625,712	May 23	3172	720	87	1379
Swenson, Albert, assignor of five-twelfths to O. Pearson, Duluth, Minn. Passenger-recorder	630,272	Aug. 1	991	218 219	88	918
Swenson, George H., Everett, Mass. Boot or shoe heel	621,384	Mar. 21	1570	348	86	1831
Swenson, Magnus, Chicago, Ill., assignor to American Cotton Company, New York, N. Y. Bat-forming mechanism	621,951	Mar. 28	2630	592 593	86	2049
Swenson, Magnus, Chicago, Ill., assignor to American Cotton Company, of New Jersey. Bat-forming mechanism	621,952	Mar. 28	2632	593	86	2050
Swenson, Magnus, Chicago, Ill., assignor to American Cotton Company, New York, N. Y. Cotton-baling press	633,708	Sept. 26	2848	662 663	88	2306
Swenson, Magnus, Chicago, Ill., assignor to American Cotton Company, New York, N. Y. Linter	639,313	Dec. 19	2064	474 475	89	2304
Swenson, Magnus, Chicago, Ill., assignor, by mesne assignments, to American Cotton Company, New York, N. Y. Cotton-press	639,950	Dec. 26	3250	745	89	2559
Swenson, Paul, Minneapolis, Minn. Pressure-gage	635,523	Oct. 24	2900	662	89	621
Sweny, Harry R., Albany, N. Y. Golf-club	632,885	Sept. 12	1301	299	88	1978
Swett, Charles P., Washington, D. C. Penholder	629,972	Aug. 1	458	99	88	814
Swett, Charles R. (See Libby and Swett.)						
Swett, Wilbra W., Minneapolis, Minn., assignor to Acetylene House Lighting Company, of West Virginia. Acetylene-gas generator	638,483	Dec. 5	570	118	89	1976
Swezey, Emma E. (See Swezey, Moses C., assignor.)						
Swezey, Moses C., assignor to E. E. Swezey, West Haven, Conn. Cash-carrier	629,219	July 18	2358	547	88	494
Swinglehurst, Harry, assignor to R. W. Scott, Philadelphia, and L. N. D. Williams, Ashbourne, Pa. Striped knitted fabric	618,017	Jan. 17	2199	491	86	467
Swift & Company. (See Patterson, John, assignor.)						
Swift, George W., Jr., Bordentown, N. J. Cell-case machine	622,403	Apr. 4	344	79 80 81	87	64
Swift, John P., Woods Holl, Mass., assignor of one-half to Easton & Burnham Machine Company, Providence, R. I. Knot-tying implement	634,152	Oct. 3	315	80	89	66
Swift, William H., Boston, Mass. Rope netting	631,910	Aug. 29	4031	903	88	1577
Swigert, John, Blanchester, Ohio. Hame and trace connector	640,047	Dec. 26	3429	788	89	2596
Swihart, John H., assignor to National Computing Scale Company, Cleveland, Ohio. Computing-scale	627,152	June 20	1732	380	87	1988
Swinbank, John. (See Douglass, Elmer E., assignor.)						
Swindell, Indimmon D., assignor of one-half to W. J. Winsted, Camp Ground, Tenn. Comb	629,703	July 25	3246	756	88	687
Swindell, John C. (See Swindell, William and J. C.)						
Swindell, John C., Allegheny, Pa. Gas-furnace	629,478	July 25	2847	661 662	88	610
Swindell, William, Pittsburg, Pa. Fuel-hopper	624,402	May 2	836	188 189	87	861
Swindell, William, Pittsburg, Pa. Metallurgical furnace	625,367	May 23	2581	587 588	87	1263
Swindell, William and J. C., Pittsburg, Pa. Annealing-furnace	624,401	May 2	834	188	87	861
Swindell, William and J. C., Allegheny, Pa. Furnace	633,349	Sept. 19	2185	513	88	2163
Swindlehurst, Albert. (See Henley, Louis, assignor.)						
Swinehart, James A., Akron, Ohio. Rubber tire for vehicle-wheels	624,992	May 16	1908	428	87	1112
Switzer, Maurice, New Orleans, La. Advertising or display card	625,991	May 30	3723	844	87	1503
Swoboda, Hans O., New York, N. Y. Electric time-switch	620,196	Feb. 28	2566	583 584	86	1364
Swoboda, Hans O., assignor to General Incandescent Arc Light Company, New York, N. Y. Electric meter	624,993	May 16	1909	428	87	1112

Alphabetical list of patentees—Continued.

Name, residence, and invention.	No.	Date.	Monthly volume.		Official Gazette.	
			Spec.	Dr'g.	Vol.	Page.
Swoboda, Hans O., New York, N. Y., assignor to General Incandescent Arc Light Company, of New York. Electric-arc lamp	635,819	Oct. 31	3457	796	89	742
Swope, Mary E., *et al.* (See Julier, Camilla, assignor.)						
Sykes, Benjamin J., Troutville, Pa. Wagon-starter	620,059	Feb. 21	2319	526	86	1303
Sykes, George W., Mercer, assignor of one-half to W. E. McKelvy, Pittsburg, Pa. Protractor	621,177	Mar. 14	1198	261	86	1746
Sykes, Joshua W., Detroit, Mich. Carpet-sweeper	617,997	Jan. 17	2159	481	86	459
Sykes, Walter F., New York, N. Y. Dyeing and tanning skins	622,563	Apr. 4	683	------	87	130
Sykes, William M., Aberdeen, Miss. Recording-tablet	626,943	June 13	1363	300	87	1896
Sykes, William R., London, England. Explosive signaling apparatus for railways	637,678	Nov. 21	3158	655	89	1629
Sylvester, Louis F., Woonsocket, R. I., assignor to Eastern Expanded Metal Company, Boston, Mass. Expanded-metal partition	634,484	Oct. 10	968	232	89	211
Sylvester, Louis F., Woonsocket, R. I., assignor to Eastern Expanded Metal Company, Boston, Mass. Pliers for handling wire clips	636,587	Nov. 7	631	138	89	1050
Sylvester, Louis F., Woonsocket, R. I., assignor to Eastern Expanded Metal Company, Boston, Mass. Wire clip for fastening metal lathing to furring	638,821	Dec. 12	1187	266	89	2118
Syme, David B., New Bedford, Mass., assignor to Draper Company, Portland, Me., and Hopedale, Mass. Picker-stick motion for looms	638,208	Nov. 28	4156	878	89	1847
Symes, Arthur, River Falls, Wis. Traveling shelving	629,704	July 25	3247	756	88	687
Symington, Robert B. (See Abercrombie, James H., assignor.)						
Symonds, Joseph A., Newton, Mass. Collapsible-tube brush	631,000	Aug. 15	2373	541	88	1223
Symons, Wilson E., Savannah, Ga. Variable-exhaust nozzle	628,369	July 4	786	{182 / 183}	88	151
Symons, Wilson E., and G. W. Wildin, Savannah, Ga. Emergency-recorder for air-brakes	627,661	June 27	2713	594	87	2199
Symphonion Manufacturing Company. (See Breslauer, Eduard, assignor.)						
Symphonion Manufacturing Company. (See Natterer, Josef, assignor.)						
Symphonion Manufacturing Company. (See Schluss, Max, assignor.)						
Synck, Henry, Jr. (See Kramer, Heckman, and Synck.)						
Synnestvedt, Paul, Glenview, Ill., assignor, by mesne assignments, to Westinghouse Air Brake Company, of Pennsylvania. Triple-valve mechanism	636,471	Nov. 7	411	91	89	1004
Syracuse Chilled Plow Company. (See Burdick, Hiram M., assignor.)						
T. S. Teuscher Commission Company. (See Murphy, John J., assignor.)						
Taber, Benjamin F., assignor to B. C. Taber, Buffalo, N. Y. Rotary pump	630,013	Aug. 1	539	119	88	830
Taber, Bright C. (See Taber, Benjamin F., assignor.)						
Taber, William C., assignor of two-thirds to F. E. Gaylord and C. M. L. Ashby, North Collins, N. Y. Telegraphic block-signal system	635,820	Oct. 31	3459	796	89	743
Tablet and Ticket Company. (See Frazee and Bersbach, assignors.)						
Tabor, Byron D., Wilson, N. Y. Spraying device	616,989	Jan. 3	237	54	86	47
Tabor, Clinton D., New York, N. Y., assignor of one-half to A. Schrafft, Newark, N. J. Window-sash	621,953	Mar. 28	2636	594	86	2051
Taft, Cyrus A., and H. A. Owen, assignors to Whitin Machine Works, Incorporated, Whitinsville, Mass. Box-controlling mechanism for looms	638,944	Dec. 12	1400	320	89	2159
Taft, Benjamin L., *et al.* (See Beebe, George F., assignor.)						
Taft, Edward E., Mount Pleasant, Iowa. Eaves-trough hanger	635,359	Oct 24	2556	595	89	553
Taft, Jerome C., assignor to American Cotton Bale Company, Providence, R. I. Press	631,447	Aug. 22	3190	724	88	1403
Taft, Jerome C., assignor to American Cotton Bale Company, Providence, R. I. Case-holder for presses	631,448	Aug. 22	3191	725	88	1403
Taggart, Andrew, Jr., Allegheny, Pa. Flue for tubular boilers	632,951	Sept. 12	1403	324	88	1998
Taggart, Edward, *et al.* (See Reynolds, Noah H., assignor.)						
Taggesell, Richard, assignor to J. F. Jr., and C. P. H. Schoellkopf, Buffalo, N. Y. Blue-black azo dye and making same	618,963	Feb. 7	301	------	86	869
Tagliabue, Charles J. (See Papendell, Robert, assignor.)						
Tague, Joseph M., assignor of one-half to C. J. Hall and D. F. Neiswanger, Cambridge, Nebr. Listed-corn cultivator	639,111	Dec. 12	1691	391	89	2216
Taillandier, Paul. (See Camelinat and Taillandier.)						
Taintor, Myron F., Northampton, Mass., assignor to Geo. L. Thompson Manufacturing Company, Chicago, Ill. Chain adjustment	639,460	Dec. 19	2360	543	89	2364
Tait, Ernest R., Oakland, Cal. Creosoted charcoal point	637,303	Nov. 21	2089	------	89	1377
Taitt, George R. (See Wood and Taitt.)						
Takamine, Jokichi, Chicago, Ill. Utilizing waste portions of printers' ink-rollers	635,821	Oct. 31	3463	------	89	743
Talbert, Daniel H., Knightstown, Ind. Weather-strip	628,420	July 4	878	207	88	168
Talbot, Anne R., Lowell, Mass. Broiler or gridiron	630,014	Aug. 1	540	119	88	830
Talbot, Benjamin, Pencoyd, Pa. Gas-producer	619,631	Feb. 14	1514	346	86	1123
Talbot, Benjamin, Pencoyd, Pa. Lining for metallurgical furnaces	628,288	July 4	628	------	88	121
Talbot, Benjamin, Pencoyd, Pa. Refining metals	639,872	Dec. 26	3109	------	89	2530
Talbot, Benjamin, Pencoyd, Pa. Refining metals	639,873	Dec. 26	3110	------	89	2530
Talbot-Crosbie, John B. (See Lyon and Talbot-Crosbie.)						
Talbot, James H., Detroit, Mich. Bicycle trolley-car	638,296	Dec. 5	208	44	89	1906
Talcott, Frank, Maynard, and F. J. Daubenberger, Farmersburg, Iowa. Milk-sampler	631,549	Aug. 22	3393	768	88	1443
Talcott, George N. (See Beardsley and Talcott.)						
Taliaferro, John D., Louden, Tenn. Insulating-arm	617,062	Jan. 3	395	96	86	77
Taliaferro, Sinclair. (See Campbell, Douglas M., assignor.)						
Talks, Henry, assignor of one-half to W. Melvin, Paterson, N. J. Box-loom	626,510	June 6	540	124	87	1718
Talks, Henry, assignor of one-half to W. Melvin, Paterson, N. J. Binder for looms	631,237	Aug. 15	2789	632	88	1305
Talley, Edgar C. (See Koerper and Talley.)						
Tallmadge, James W., Boston, Mass. Liquid-distributer	616,990	Jan. 3	238	55	86	47
Tallmadge, James W., assignor of one-half to W. O. Merrill, Boston, Mass. Acetylene-gas apparatus	639,188	Dec. 12	1839	423	89	2243
Talmage, John G. (See Curtis, Theodore H., assignor.)						
Tandy, James E., Wichita, Kans. House-moving truck	639,461	Dec. 19	2362	544	89	2364
Taneyhill, O. B. (See Kelly, Henry, assignor.)						
Tanner, Albert C., Jersey City, N. J., assignor of one-half to A. W. Barnes, New York, N. Y. Motion and power transmitting mechanism	632,952	Sept. 12	1405	325	88	1999
Tanner, Charles, Cheneyville, La. Cultivator	616,991	Jan. 3	239	55	86	47
Tanner, Herbert, London, England. Luggage-carrier for bicycles, &c	619,913	Feb. 21	2062	467	86	1255
Tanner, James M., Herrick, Ill. Gate	632,288	Sept. 5	153	35	88	1737
Tanner, Julius R. (See Brown and Tanner.)						
Tanner, Talcott W., *et al.* (See Wescott, Pulaski D., assignor.)						
Tanner, William J., London, England. Handle-bar	633,054	Sept. 12	1574	367	88	2032
Tanner, Zera L., and J. B. Blish, U. S. Navy. Sounding apparatus for navigators' use	617,451	Jan. 10	1138	259	86	239
Tanney, Frank E., assignor of three-fourths to L. Kress, J. A. Freed, and J. G. Kress, Beaver Falls, Pa. Brake-pipe coupling	626,778	June 13	1038	233	87	1834
Tarbox, Alfred B., Chelsea, Mass., assignor to Boston & Lockport Block Company, Lockport, N. Y. Tackle-block	638,772	Dec. 12	1103	247	89	2102
Tardel, Emil C. F., Pinneberg, Germany. Umbrella-holder for vehicles	635,612	Oct. 24	3059	702	89	650

Alphabetical list of patentees—Continued.

Name, residence, and invention.	No.	Date.	Monthly volume. Spec.	Monthly volume. Dr'g.	Official Gazette. Vol.	Official Gazette. Page.
Tarr, John P., Augusta, Ill. Hog-trap	630,131	Aug. 1	755	162, 163	88	872
Tarr, Nathan W., *et al.* (See Sigler, Isaac G., assignor.)						
Tarver, George W. (See Jones and Tarver.)						
Tasker, Vernon C. (See Driggs and Tasker.)						
Tassell, George W., *et al.* (See Gipe, Emanuel C., assignor.)						
Tassie, William T. (See Macdonald, David, assignor.)						
Tate, James C., Kyger, Ohio. Soil-pulverizing machine	617,613	Jan. 10	1429	326	86	297
Tatham, Edwin, London, England. Lamp for burning liquid hydrocarbons	622,983	Apr. 11	1434	331	87	293
Tatham, Edwin, London, England. Lamp for burning gaseous hydrocarbons	622,984	Apr. 11	1435	331	87	294
Tatham, Edwin, London, England. Means for propelling liquids applicable for use in propulsion of vessels, &c	632,662	Sept. 5	837	195, 196	88	1874
Tatham, Edwin, London, England. Apparatus for pumping liquids	632,663	Sept. 5	839	196	88	1875
Tatham, Richard J., Garfield, N. J. Railway-gate	637,836	Nov. 28	3442	719	89	1706
Tatman, R. James, *et al.* (See Raymond and Beal, assignors.)						
Tatum, Albert H., assignor to Whithall, Tatum & Co., New York, N. Y. Syringe-case	630,638	Aug. 8	1747	392	88	1076
Taughannock Emery Wheel Co. (See Fowler, George H., assignor.)						
Taulbee, Daniel M., assignor of two-thirds to W. A. Taulbee and F. E. Sampson, Gray, Ky. Bicycle shoulder-brace	626,736	June 13	947	215	87	1816
Taulbee, W. A., *et al.* (See Taulbee, Daniel M., assignor.)						
Taylor, Abijah, Chicago, Ill., assignor of one-half to J. Welch, Webster City, Iowa. Rotary engine	634,511	Oct. 10	1014	242, 243	89	220
Taylor, Addison B. (See McKeighan, Robert, assignor.)						
Taylor, Alfred, Goldstream, assignor of one-half to W. H. and J. H Quann, Vancouver, Canada. Non-refillable bottle	627,362	June 20	2141	471	87	2071
Taylor, Arthur. (See Ramsden, Taylor, and Firth.)						
Taylor, Arthur T. (See Ramsden, Taylor, and Ramsden.)						
Taylor, Benjamin B., Beaver Falls, Pa. Window-curtain pole	617,203	Jan. 3	648	152	86	127
Taylor, Benjamin F., assignor to A. D. Gardner, Newark, N. J. Grip for bicycles	635,084	Oct. 17	2041	482	89	440
Taylor, Benjamin F., assignor to Taylor Tire and Development Company, Bridgeport, Conn. Pneumatic tire	634,920	Oct. 17	1730	410	89	376
Taylor, Benjamin F., assignor to Taylor Tire and Development Company, Bridgeport, Conn. Pneumatic tire	639,951	Dec. 26	3254	745	89	2560
Taylor, Charles, and C. E. Robertson, Montreal, Canada. Thawing apparatus	633,627	Sept. 26	2708	630, 631	88	2277
Taylor, Charles A., Winchester, Ill. Car-coupling	622,786	Apr. 11	1079	251	87	224
Taylor, Charles F. (See Amies, Joseph H., assignor.)						
Taylor, Charles H., assignor to Taylor Hydraulic Air Compressing Company, Limited, Montreal, Canada. Hydraulic air-compressing apparatus	618,243	Jan. 24	2653	587	86	566
Taylor, Charles M., Harlan, Iowa. Shoe-protector	638,484	Dec. 5	574	118	89	1976
Taylor, Charles W., Quincy, Mass. Tool for making ventilatiug-holes in hats	638,773	Dec. 12	1105	247	89	2103
Taylor, Clarencc L., assignor to W. H. Morgan, Alliance, Ohio. Lubricating device for overhead traveling cranes	624,994	May 16	1910	428, 429	87	1112
Taylor, Clarence L., assignor to Morgan Engineering Company, Alliance, Ohio. Clutch for hoisting-machines	633,667	Sept. 26	2773	644	88	2291
Taylor, Clarence W., Sioux City, Iowa. Mucilage-holder	635,204	Oct. 17	2268	528	89	481
Taylor, Cleveland B., Toledo, Ohio. Horseshoe	622,296	Apr. 4	183	40	87	34
Taylor, Daniel, Liverpool, England. Door or like hook	616,992	Jan. 3	242	56	86	48
Taylor, Daniel R. (See Ludlow, Washington I., assignor.)						
Taylor, David L., assignor to C. R. Carr, Chicago, Ill. Alarm-lock	632,328	Sept. 5	222	52	88	1751
Taylor, Edward B., Chicago, Ill. Wheel-chair	621,178	Mar. 14	1199	261, 262	86	1747
Taylor, Edwin, Birmingham, England. Junction of frames	637,046	Nov. 14	1567	338	89	1263
Taylor, Eugene H., Lynn, Mass. Machine for molding shank-stiffeners	635,065	Oct. 17	1992	471, 472	89	429
Taylor, George B., and C. B. Voynow, Philadelphia, Pa. Railway-switch	626,250	June 6	57	13	87	1625
Taylor, George L., assignor to R. E. Parraga, New York, N. Y. Fumigating device	619,700	Feb. 14	1655	380	86	1151
Taylor, George W. (See Smyser and Taylor.)						
Taylor, George W. and W. H., Red Apple, Ala. Combined cotton-chopper and harrow	635,205	Oct. 17	2270	529	89	482
Taylor, Henry H., and M. B. Hammond, Bridgeport, Conn. Bustle	617,452	Jan. 10	1140	259	86	240
Taylor, Herbert B., Newark, N. J. Railway-signal	627,243	June 20	1886	414	87	2019
Taylor, Herbert B., Newark, N. J. Electric signaling apparatus	638,606	Dec. 5	789	171	89	2017
Taylor, Herbert B., assignor to J. Wayland, Newark, N. J. Electric relay	627,242	June 20	1885	413	87	2019
Taylor, Herbert B., assignor to J. Wayland, Newark, N. J. Railway-signal	638,607	Dec. 5	792	171	89	2018
Taylor, Hugh S., Allegheny, assignor of one-third to F. Schuchman, Homestead, Pa. Rustless metal	624,127	May 2	336	------	87	764
Taylor Hydraulic Air Compressing Company. (See Taylor, Charles H., assignor.)						
Taylor, Izora. (See Taylor, James H. and I.)						
Taylor, James A., Lima, Ind. Road-scrapper and carrier	629,826	Aug. 1	117	28, 29	88	743
Taylor, James H. and I., Philadelphia, Pa. Skirt-supporter	622,731	Apr. 11	987	229	87	207
Taylor, Jason C., and E. C. Wilson, Freeport, Ohio. Saw-set	625,477	May 23	2765	629	87	1298
Taylor, John, Troy, N. Y. Car-truck	623,440	Apr. 18	2291	524, 525	87	478
Taylor, John, Joliette, N. D. Attachment for threshers	626,041	May 30	3865	876	87	1528
Taylor, John L., West Superior, Wis. Fifth-wheel	635,407	Oct. 24	2689	616	89	579
Taylor, Joseph, Pot Ovens, assignor to E. Green & Son, Limited, Wakefield, England. Hand-hole cover	619,239	Feb. 7	831	182, 183	86	975
Taylor, Joseph G., Pittsburg, Pa. Sifter	627,363	June 20	2142	471	87	2071
Taylor, Joseph H., Crawfordsville, Ind. Device for spraying plants, &c	626,469	June 6	463	109	87	1704
Taylor, Joseph N., Hamilton, Mont. Outer case for beehives	620,859	Mar. 7	601	130	86	1621
Taylor, Lincoln, Stamford, assignor to Star Manufacturing Company, Greenwich, Conn. Belt-fastening	621,179	Mar. 14	1202	262	86	1747
Taylor, Maurice, Paris, France. Gas-producing apparatus	636,084	Oct. 31	4009	916	89	849
Taylor, Maurice, Paris, France. Making gas	638,485	Dec. 5	575	119	89	1976
Taylor, Maurice, Paris, France. Coupling gas-motors and gas-producers	638,655	Dec. 5	873	190	89	2035
Taylor, Maurice, Paris, France. Gas-producer	640,048	Dec. 26	3430	788	89	2597
Taylor, Robert. (See Spink, Harlow E., assignor.)						
Taylor, Robert, Jr., Oldham, England. Traveling-flat carding-engine	628,216	July 4	476	114	88	95
Taylor, Robert, Jr., Oldham, England. Traveling-flat carding-engine	629,052	July 18	2060	479	88	439
Taylor, Robert W., Sr., Chicago, Ill., assignor of three-fourths to F. W. Childs, E. J. O'Brien, and J. L. Moore, Fort Madison, Iowa. Coin-controlled electrical apparatus	620,197	Feb. 28	2569	584, 585	86	1364
Taylor, Roswell C. (See Brandy, James, assignor.)						
Taylor, Samuel A., New York, N. Y. Indian club	629,626	July 25	3120	726	88	663
Taylor, Samuel J., South Omaha, Nebr. Shoveling-board for grain-cars	621,180	Mar. 14	1203	263	86	1747
Taylor, Samuel J., Minneapolis, Minn. Acetylene-gas generator	635,029	Oct. 17	1920	457	89	415
Taylor, Sylvester, Centre, Ind. Ter. Brick-press	620,809	Mar. 7	509	108	86	1601

Alphabetical list of patentees—Continued.

Name, residence, and invention.	No.	Date.	Monthly volume.		Official Gazette.	
			Spec.	Dr'g.	Vol.	Page.
Taylor, Thomas B., assignor to Decatur Car Wheel Manufacturing Company, Birmingham, Ala. Journal-box	629,180	July 18	2299	533	88	484
Taylor, Thomas P., Bridgeport, Conn. Bustle	634,153	Oct. 3	316	80	89	66
Taylor Tire and Development Company. (See Taylor, Benjamin F., assignor.)						
Taylor, Volney E., Rarden, Ohio. Work-bench	629,405	July 25	2706	629	88	583
Taylor, Warren H., assignor to Yale & Towne Manufacturing Company, Stamford, Conn. Front for locks	620,810	Mar. 7	511	108	86	1602
Taylor, Warren H., assignor to Yale & Towne Manufacturing Company, Stamford, Conn. Bolt mechanism for safes	638,892	Dec. 12	1309	298	89	2141
Taylor, William, Obion, Tenn. Seed-distributer	619,055	Feb. 7	493	103	86	906
Taylor, William, Kearny, N. J. Back-pedaling brake	623,387	Apr. 18	2201	505	87	460
Taylor, William H., Dannevirke, New Zealand. Appliance for use upon doors for excluding rain	625,713	May 23	3173	720	87	1379
Taylor, William T., Evans, Colo. Automatic waste-gate	635,206	Oct. 17	2272	529	89	482
Taylor, Willis H. (See Taylor, George W. and W. H.)						
Taylor, Zane B., and O. W. Moore, Orbisonia, Pa. Folding crate	628,500	July 11	1024	238, 239	88	218
Tayntor, Charles E., New York, N. Y. Roof for mausoleums, vaults, &c	635,984	Oct. 31	3787	872	89	807
Teague, Robert M., Brenham, Tex. Gate	624,702	May 9	1379	308	87	990
Teakle, Robert T., Detroit, Mich. Sash-center	632,329	Sept. 5	223	52	88	1751
Teal, Stebbins A., and C. C. McPherson, Missouri Valley, Iowa. Pilot-coupling	630,575	Aug. 8	1631	364, 365	88	1054
Teal, William B. (See Lindinberger and Teal.)						
Tebbens, Bernard J., New York, N. Y. Tobacco-pipe	637,679	Nov. 21	3162	656	89	1629
Tebbets & Co., E. L. (See Herrick, Edgar A. and G. M., assignors.)						
Tebbetts, Alvah C., Boston, Mass. Lip-guard and protector	622,564	Apr. 4	684	159	87	130
Tebbetts, Alvah M., St. Louis, Mo. Shaft-coupling for vehicles	619,515	Feb. 14	1321	302	86	1088
Tebbetts, Charles F., Boston, assignor of one-half to C. E. Brownell, New Bedford, Mass. Labeling-machine	634,708	Oct. 10	1357	321	89	287
Tebbetts, Charles F., Boston, assignor of one-half to C. E. Brownell, New Bedford, Mass. Labeling-machine	639,627	Dec. 19	2648	608	89	2422
Tebbetts, Edward J., Lower Cabot, Vt. Sap-spout and cover	633,224	Sept. 19	1947	457	88	2117
Tedell, John, Moline, Ill., assignor to Deere & Company, of Illinois. Machine for shaping metal by rolls	627,546	June 27	2490	547	87	2155
Teeguarden, Freeman M., Colfax, assignor to Safety Corn Husker and Shredder Company, Indianapolis, Ind. Corn-husking and fodder-shredding machine	627,547	June 27	2492	547, 548	87	2155
Teele, Frank A., *et al.* (See Da Rozir Levi, assignor.)						
Teeter, Chancellor, Deloraine, Canada. Holdback-clasp or check-loop for vehicles	632,953	Sept. 12	1408	325	88	1999
Teeter, Ira, and B. E. Sly, Watertown, N. Y. Spring for carriage-cushions, beds, &c	634,313	Oct. 3	652	158	89	132
Teevan, James, and J. F. Hoyne, Dublin, Ireland. Letter-box	626,251	June 6	59	13	87	1626
Tegethoff, William C., *et al.* (See Meyer, Svend M., assignor.)						
Teichmann, Richard, New York, N. Y. Mechanical toy	624,403	May 2	838	189	87	862
Teiser, Philip F. (See Pollak and Teiser.)						
Teisler, Emil, Wurzen, assignor to S. Douglas, Berlin, Germany. Obtaining silicic and hydro-fluo-silicic acids	626,511	June 6	541	------	87	1718
Telegraph Job Printing Company. (See Reichel, Louis J., assignor.)						
Tellefsen, Theodore J. (See Lockwood and Tellefsen.)						
Tellefsen, Theodore J., Newark, N. J. Roller-bearing spindle-step	617,370	Jan. 10	987	227	86	211
Tellefsen, Theodore J., Newark, N. J., assignor to Hyatt Roller Bearing Company, of New Jersey. Journal-bearing	624,995	May 16	1912	429	87	1112
Tellefsen, Theodore J., assignor to A. F. Bannister, Newark, N. J. Machine for grinding cutlery	638,204	Nov. 28	4157	878	89	1847
Tellefsen, Theodore J., assignor to A. F. Bannister, Newark, N. J. Grinding-machine for cutlery	638,205	Nov. 28	4159	878, 879	89	1848
Tellier, Charles, assignor to Compagnie-Générale des Nouvelles Inventions Charles Tellier, Paris, France. Manufacture of ice and production of cold, &c	628,150	July 4	361	86	88	73
Teltschik, Emil, Vienna, Austria-Hungary. Fastening device for corsets	618,191	Jan. 24	2568	567	86	551
Temperley, John R. (See Temperley, Joseph and J. R.)						
Temperley, Joseph and J. R., London, England. Apparatus for raising, lowering, and conveying loads	622,830	Apr. 11	1158	267, 268, 269	87	239
Temperley, Joseph and J. R., London, England. Apparatus for dumping, depositing, or releasing loads suspended from cranes, &c	637,182	Nov. 14	1846	395, 396, 397, 398	89	1314
Tempest, Phineus, Rexburg, Idaho. Strap-fastening	628,370	July 4	788	183	88	151
Temple, Morris E., Chattanooga, Tenn. Calculating-machine	639,112	Dec. 12	1692	391, 392	89	2216
Temple, Walter T., Chattanooga, Tenn. Extension-table	627,364	June 20	2143	471, 472	87	2072
Temple, Wilson S., Mumford, N. C. Rice-harvester	636,085	Oct. 31	4010	916, 917	89	850
Templeton, William G., Colorado Springs, Colo. Adjustable window-shade supporter	627,216	June 20	1836	402	87	2009
Templeton, William G., Colorado Springs, Colo. Adjustable window-shade supporter	629,827	Aug. 1	121	29	88	744
Templeton, William G., Colorado Springs, Colo., assignor of two-thirds to W. J. Brasfield and W. T. Adair, St. Louis, Mo. Hook and eye	637,535	Nov. 21	2517	546	89	1463
Ten Winkel, August, assignor of one-fourth to H. Ten Winkel, Denver, Colo. Ore-concentrator	622,641	Apr. 4	831	192	87	158
Ten Winkel, Herman. (See Ten Winkel, August, assignor.)						
Tener, James B., Sabina, Ohio. Harness-saddle	631,136	Aug. 15	2627	594	88	1272
Tennant, George B., Johnstown, Pa. Metal-shearing machine	626,448	June 6	431	101, 102	87	1697
Tennant, George B., Johnstown, Pa. Gag for metal-punches	627,153	June 20	1735	381	87	1989
Tennant, George B., Johnstown, Pa. Metal-punching apparatus	639,793	Dec. 26	2977	684, 685	89	2506
Tenney, Albert B., Everett, Mass. Traveling crane	620,088	Feb. 21	2363	536	86	1311
Tennille, Harry N. (See Nichols and Tennille.)						
Tepel, Christian, Bennett, Pa. Electric-arc lamp	624,703	May 9	1380	308, 309	87	990
Tepel, Christian, Bennett, Pa. Electric-arc lamp	634,314	Oct. 3	653	159	89	132
Terdoest, Egbert B., Cincinnati, Ohio. Fire-escape	635,524	Oct. 24	2902	662	89	621
Terfloth, Bernard, assignor of one-half to R. Tobin, New York, N. Y. Spark-arrester	630,273	Aug. 1	993	219	88	919
Terhune, Theodore O., assignor to Steel Cable Engineering Company, Boston, Mass. Endless conveyer	630,800	Aug. 8	2006	454	88	1128
Terlinden, Gerhard, Oberhausen, Germany. Detachable chair	622,297	Apr. 4	184	40	87	34
Terne, Bruno, Philadelphia, Pa. Making fertilizers from garbage	619,056	Feb. 7	494	104	86	906

Alphabetical list of patentees—Continued.

Name, residence, and invention.	No.	Date.	Monthly volume. Spec.	Monthly volume. Dr'g.	Official Gazette. Vol.	Official Gazette. Page.
Ternström, Ernst, Paris, France. Breech mechanism for quick-firing guns	617,614	Jan. 10	1430	326, 327	86	297
Terrell, Amos W., Patchogue, N. Y. Cutter-stock	618,301	Jan. 24	2759	611	86	587
Terrell, Early W., assignor of one-half to A. M. Preston, Cullman, Ala. Germ or insect exterminator	620,079	Feb. 21	2348	532	86	1309
Terrell, Joseph E., Bolivar, Tex. Stalk-cutter	630,947	Aug. 15	2276	518	88	1204
Terrisse, Henri, and G. Darier, Geneva, Switzerland, assignors to Badische Anilin and Soda Fabrik, Ludwigshafen, Germany. Yellow basic dye	637,183	Nov. 14	1853	------	89	1315
Terrisse, Jules (See Brisselet, Henri, assignor.)						
Terry, Albert, Jr., Sydney, New South Wales. Combined barrel-stave protector and bung-hole bushing	625,814	May 30	3391	769	87	1439
Terry, Edward C., Hartford, Conn. Steam or gas turbine	636,867	Nov. 14	1213	262	89	1194
Terry, Edward F., New York, N. Y. Derrick	628,592	July 11	1204	281, 282	88	252
Terry, George E. (See Stanton, Gilbert A., assignor.)						
Terry, George S. (See Wright, Cary, assignor.)						
Terry, George W., and E. H. Stowell, Pontiac, Mich. Wire-tightening device	640,049	Dec. 26	3432	788	89	2597
Terry, Owen, assignor to H. L. Wortham, Tuscola, Ill. Folding coop	620,512	Feb. 28	3092	707	86	1465
Terry, Rufus K., and W. Grissom, Belgreen, Ala. Safetv device for elevators	630,424	Aug. 8	1354	302	88	1001
Terry, William E., and E. Christen, Elmira, N. Y.; said Terry assignor to said Christen. Dampening-machine for laundries	618,018	Jan. 17	2200	491	86	467
Tesch, August, Helmer, Ill. Buggy-top	627,154	June 20	1739	382	87	1989
Teske, Charles, Hartford, Conn. Hair-spring collet for watches	617,301	Jan. 3	833	194	86	164
Tesseyman, Henry, Dayton, Ohio, assignor to Barney & Smith Car Company. Brake mechanism	620,724	Mar. 7	340	70	86	1567
Tessin, John. (See Arft and Tessin.)						
Test, Louis, and H. M. Jones, Philadelphia, Pa. Shipping-crate	618,448	Jan. 31	3048	674	86	656
Testa, Giuseppe, New York, N. Y. Firearm	628,130	July 4	325	78	88	65
Teste, Auguste, Lyons, France. Steam boiler or generator	620,994	Mar. 14	865	188	86	1682
Teter, William L. (See Heany, John A., assignor.)						
Teter, William L., Philadelphia, Pa. Apparatus for generating and utilizing gaseous fuel	617,785	Jan. 17	1774	397, 398	86	383
Tetlow, Henry, Manchester, England. Traveler for rings of ring spinning and doubling frames	631,342	Aug. 22	2999	680	88	1365
Textile Machinery Manufacturing Company. (See Pivetz, Alois, assignor.)						
Thacher, Edwin, Detroit, Mich. Concrete arch	617,615	Jan. 10	1432	327	86	298
Thacher, John B., Albany, N. Y. Running-board for vehicles	634,378	Oct. 3	777	185	89	154
Thacker, Edgar J., St. Louis, Mo. Supporting-bracket for curtain-rollers	625,429	May 23	2689	613	87	1284
Thackray, George E., Westmont, Pa. Metal-shearing apparatus	631,832	Aug. 29	3904	873, 874	88	1553
Thackray, George E., Westmont, Pa. Mold for casting rolls	638,774	Dec. 12	1106	248	89	2103
Thal, Christian von, St. Petersburg, Russia, and R. Weiss, Suresnes, France. Suspension-railway and car or carriage therefor	640,050	Dec. 26	3433	789	89	2597
Tharandt, Wilhelm, assignor to Philippsohn & Leschziner, Berlin, Germany. Cloth-cutting machine	624,704	May 9	1382	309	87	990
Tharp, Andrew H., Duffs, Pa. Grate-closer	622,565	Apr. 4	686	159	87	130
Tharp, George P., and V. A. Park, Rendville, Ohio. Pump	622,787	Apr. 11	1081	251	87	224
Thatcher, Hervey D., Potsdam, N. Y. Paper pail	619,099	Feb. 7	570	121	86	922
Thawley, William M., Toronto, Canada. Advertising-sign	625,815	May 30	3392	770	87	1439
Thayer, Aaron G., Kensington, Kans. Combination washstand and writing-desk	636,588	Nov. 7	632	139	89	1050
Thayer, Amos W., Meredith, N. H. Faucet	626,578	June 6	648	150	87	1740
Thayer, Hiram H. (See Robinson, James H., assignor.)						
Thayer, Horace N., Erie, Pa. Hub-attaching device	631,972	Aug. 29	4145	933	88	1599
Thayer, Russell, Philadelphia, Pa., assignor to Pennsylvania Globe Gas Light Company, of Pennsylvania. Combined gas and vapor burning device	631,001	Aug. 15	2375	541	88	1223
Thayer, Wilbur I. (See Markham, Harry, assignor.)						
Thayer, William H., Harvey, assignor to George M. Clark & Company, Chicago, Ill. Vapor-stove	625,214	May 16	2288	521	87	1181
Thayer, Winthrop. (See Park, Kennedy, assignor.)						
Theadore, Paul, assignor to Capitol Electric Engineering Company, Lansing, Mich. Vise	632,381	Sept. 5	318	72	88	1769
Theard, Joseph O. (See Aniello, John A., assignor.)						
Thebaud, John E., Buffalo, N. Y. Indicating and recording mechanism for measuring fluids in motors, &c	619,632	Feb. 14	1516	346, 347	86	1124
Theemling, Jacob, Union Hill, assignor of one-half to E. K. Righter, Newark, N. J. Reversible rotary motor	637,429	Nov. 21	2326	502	89	1426
Theilengerdes, Frederick, Memphis, Tenn. Car-brake	638,656	Dec. 5	874	191	89	2025
Theilgaard, Albert E. J. V. J., Copenhagen, Denmark. Devulcanizing caoutchouc, india-rubber, &c	638,775	Dec. 12	1107	------	89	2103
Theiring, Andrew J., Cincinnati, Ohio. Axle-bearing	630,948	Aug. 15	2277	518	88	1204
Theiss, Henry. (See Theiss, Philip and H.)						
Theiss, Philip and H., Columbiana, Ohio. Grain-grinding process	637,837	Nov. 28	3444	719	89	1706
Theobald, William M., Wellsville, Ohio. Manufacture of sheet metal	626,847	June 13	1170	261	87	1858
Theobald, William M., Wellsville, Ohio. Finishing metal sheets or plates	627,021	June 13	1506	------	87	1925
Theobald, William M., Wellsville, Ohio. Finishing metal sheets or plates	627,022	June 13	1506	------	87	1925
Theobald, William M., Wellsville, Ohio. Finishing metal plates or sheets	627,023	June 13	1507	------	87	1925
Therien, Joseph H., San Francisco, Cal. Washing-machine	620,552	Feb. 28	3188	730	86	1484
Theriot, J. T., *et al.* (See Boudreaux, Paul O. E., assignor.)						
Therrell, Daniel M., Atlanta, Ga. Telephone system	624,881	May 9	1714	388	87	1056
Theumer, Victor von, *et al.* (See Kohl, Georg, assignor.)						
Theurer, Jacob F., Milwaukee, Wis. Process of and apparatus for filtering and recarbonizing beer	618,142	Jan. 24	2464	549	86	532
Theurer, Jacob F., Milwaukee, Wis. Filter	618,964	Feb. 7	302	65, 66	86	869
Theurer, Jacob F., Milwaukee, Wis. Filter	618,965	Feb. 7	305	66	86	870
Theurer, Jacob F., Milwaukee, Wis. Process of and apparatus for filtering and recarbonating beer	620,379	Feb. 28	2884	660	86	1426
Theurer, Jacob F., Milwaukee, Wis. Filter	624,576	May 9	1164	261, 262	87	948
Thew, Richard, Cleveland, Ohio. Vessel-trimmer	627,217	June 20	1837	402, 403	87	2009
Thexton, Henry A., St. Thomas, N. D. Envelop moistener and sealer	639,314	Dec. 19	2066	475	89	2305
Thexton, Walter, Duluth, Minn. Copying-press	638,608	Dec. 5	794	172	89	2018
Thiele, Charles. (See Jordan and Thiele.)						
Thiele, Felix C. (See Cunningham and Thiele.)						
Thielemann, Friedrich. (See Cochrane and Thielemann.)						
Thielscher, Ernest H., Brookline, Mass., assignor to Holtzer-Cabot Electric Company, Brookline and Boston, Mass. Permanently-adjusted telephone	624,128	May 2	337	69	87	764

Alphabetical list of patentees—Continued.

Name, residence, and invention.	No.	Date.	Monthly volume. Spec.	Monthly volume. Dr'g.	Official Gazette. Vol.	Official Gazette. Page.
Thiem, Edward A., assignor of one-half to G. W. Weber, St. Paul, Minn. Toe-clip for bicycles. (Reissue)	11,774	Sept. 19	2545	597	88	2231
Thieme, Leopold A., Philadelphia, Pa. Attachment for sponging cloth	622,566	Apr. 4	687	159	87	130
Thiems, Albert, Hamburg, Germany. Removable bottle-stoppering device	623,746	Apr. 25	2820	646	87	597
Thierry, Alfred L. (See Thierry, Jules A. and A. L.)						
Thierry, Jules A. and A. L., London, England. Forming headed articles of manufacture	624,404	May 2	839	189	87	862
Thill, Frank F., Wheaton, Minn. Draft-equalizer	638,609	Dec. 5	795	172	89	2019
Thoe, Carl K., Oslo, Minn. Governor for traction-engines	637,751	Nov. 21	3283	685	89	1654
Thoen, Alfred B. (See Hallin, William E., assignor.)						
Thoma, James K., Winfield, Kans. Fastener for floor-coverings	617,204	Jan. 3	650	152	86	127
Thoma, James K., Winfield, Kans. Fifth-wheel	631,189	Aug. 15	2713	614	88	1290
Thomann, Bernard H., administrator. (See Klein, Frank, assignor.)						
Thomas, A. A., *et al.* (See Lynch, Michael A., assignor.)						
Thomas, Abner D., Little Rock, Ark. Cotton-gin	632,685	Sept. 5	901	209, 210	88	1888
Thomas, Adam. (See Paar, Henry, assignor.)						
Thomas, Addison C. (See Hamilton and Leckie, assignors.)						
Thomas, Albert D., assignor to Union Staple Seam Re-Enforcing Company, Keokuk, Iowa. Staple-setting machine	634,676	Oct. 10	1299	306	89	276
Thomas, Alfred T. (See Palmer, Albert E., assignor.)						
Thomas, Benjamin H. (See McAlexander and Thomas.)						
Thomas, Camp T., Fort Madison, Iowa. Optical measuring instrument	628,045	July 4	155	32	88	32
Thomas, Charles L., Buffalo, N. Y. Vehicle-spring	633,225	Sept. 19	1949	458	88	2118
Thomas, Chauncey, Boston, Mass. Hansom-cab	617,888	Jan. 17	1970	440	86	423
Thomas, Clark W., Frazeysburg, Ohio. Machine for making berry-boxes	628,371	July 4	790	183, 184	88	152
Thomas & Co., Chauncey. (See Lawrence, Joseph L., assignor.)						
Thomas, D. H. (See Litten, Eugene, assignor.)						
Thomas-Davies, George. (See Davy and Thomas-Davies.)						
Thomas, Eddy T., New York, N. Y., assignor to J. J. Sullivan, Reading, Mass. Sewing-machine-shaft hanger	630,274	Aug. 1	994	219	88	919
Thomas, Eddy T., New York, N. Y., assignor, by mesne assignments, to Electric Stone Cleaning and Renovating Company, Jersey City, N. J. Electric seam-calking tool	634,315	Oct. 3	656	159	89	132
Thomas, Erastus N., and G. L. Thompson, Jefferson, Oreg. Fruit-drier	617,823	Jan. 17	1853	414	86	400
Thomas, Franz, Aix-la-Chapelle, Germany. Making alkaloid-casein compounds	626,110	May 30	4009	------	87	1553
Thomas, George J., Newton, Mass. Valve	627,448	June 20	2304	507	87	2102
Thomas, Goodell, Hecla, N. Y. Vehicle running-gear	624,264	May 2	586	125	87	810
Thomas, Hubert S., Lydbrook, England. Machinery for shearing or cutting metallic plates or sheets, &c	629,532	July 25	2954	688	88	631
Thomas, Jacob W., Lanark, Ill. Washing-machine	625,069	May 16	2041	459	87	1136
Thomas, James. (See Thomas, William R. and J.)						
Thomas, James and W. R., Catasauqua, Pa. Valve	617,616	Jan. 10	1433	327	86	298
Thomas, James A., Chicago, Ill. Band-brake	636,472	Nov. 7	413	92	89	1004
Thomas, James B., assignor to American Railway Supply Company, St. Louis, Mo. Car-coupling	627,449	June 20	2306	508	87	2102
Thomas, James D., *et al.* (See Adams, William F., assignor.)						
Thomas, John D., Katonah, N. Y. Vehicle-step	637,184	Nov. 14	1853	398	89	1315
Thomas, John G., Washington, D. C. Draft device for chimney-stacks	629,019	July 18	2002	466	88	427
Thomas, John J. (See Smith and Thomas.)						
Thomas, John J., Swayzee, assignor of one-half to N. B. Thomas, Logansport, Ind. Window shade and curtain hanger	639,113	Dec. 12	1697	392	89	2217
Thomas, John R., assignor to J. A. Fay & Egan Company, Cincinnati, Ohio. Feeding device for planing-machines	639,315	Dec. 19	2069	475, 476	89	2305
Thomas, Lorenso S. (See Thomas, Morten C. and L. S.)						
Thomas, Morten C. and L. S., Willard, Mo. Top-rest holder for buggies	625,613	May 23	2996	683	87	1344
Thomas, Noble B. (See Thomas, John J., assignor.)						
Thomas, Roberts, Stevenson Company. (See Roberts, Clarence V., assignor.)						
Thomas, Samuel D., *et al.* (See Martz, Randolph N., assignor.)						
Thomas, Thomas, Roanoke, La. Ditching-machine	633,402	Sept. 19	2283	538	88	2182
Thomas, Walter B., Chicago, Ill., assignor to McConway & Torley Company, Pittsburg, Pa. Car-coupling	630,132	Aug. 1	756	163, 164	88	873
Thomas, Warren M., English, Iowa. Door-spring	622,567	Apr. 4	688	160	87	131
Thomas, William F. (See Goebler, Henry A., assignor.)						
Thomas, William R. (See Thomas, James and W. R.)						
Thomas, William R. and J., Catasauqua, Pa. Electric crane	619,100	Feb. 7	570	122	86	922
Thomas, Winfield S., Boston, assignor of one-half to Whitin Machine Works, Whitinsville, Mass. Loom	617,311	Jan. 3	846	198, 199	86	167
Thomass, Adolph, Los Angeles, Cal. Egg-tester	634,249	Oct. 3	523	133	89	105
Thompson, Abraham, Rochelle, Ill. Level	624,577	May 9	1167	262	87	949
Thompson, Allen L., and S. H. Allen, Provo City, Utah. Picture-frame hanger	634,190	Oct. 3	381	97	89	78
Thompson, Andrew, Tacoma, Wash. Dredging-machine	618,143	Jan. 24	2466	549	86	533
Thompson, Arthur. (See Wakefield, Nathan S., assignor.)						
Thompson, Channing M., Newark, Ohio. Side bearing for rolling stock	637,536	Nov. 21	2519	546	89	1463
Thompson, Charles E. (See Martin, Alfred, assignor.)						
Thompson, Charles E., Lansingburg, N. Y. Brush	634,546	Oct. 10	1082	257	89	233
Thompson, Charles H., Teignmouth, England. Fertilizer and making same	619,633	Feb. 14	1528	------	86	1125
Thompson, Christopher C., Springville, Ky. Curtain-fixture	622,298	Apr. 4	185	40	87	34
Thompson, Christopher C., Grayson, Ky. Windmill	625,614	May 23	2997	683	87	1345
Thompson, Clark W., La Crosse, Wis. Electrochronograph	619,028	Feb. 7	445	94	86	896
Thompson, Davilla S., Livermore Falls, Me. Grinding-machine	621,181	Mar. 14	1204	263	86	1748
Thompson, E. H. L. (See Jones, Edgar R., assignor.)						
Thompson, Elwin L., Baldwinsville, Mass. Convertible chair	635,613	Oct. 24	3059	702	89	651
Thompson, Evert M., assignor to W. H. Hubbard, trustee, Indianapolis, Ind. Stave for barrels	626,819	June 13	1103	248	87	1845
Thompson, Francis E. (See Young and Thompson.)						
Thompson, Frank, assignor to Common Sense Bolster Company, Chicago, Ill. Journal-box for car-axles	638,077	Nov. 28	3887	818	89	1794
Thompson, Frank E. (See Christiansen and Thompson.)						
Thompson, Frederick O., Brockton, Mass. Lock for hinged shoe-lasts	638,297	Dec. 5	210	44	89	1906
Thompson, Gamaliel L. (See Thomas and Thompson.)						
Thompson, George F., Minneapolis, Minn. Rear axle and reach for vehicles	630,425	Aug. 8	1355	302	88	1001
Thompson, George K., Malden, assignor to American Bell Telephone Company, Boston, Mass. Toll counter or register for telephonic circuits	619,240	Feb. 7	832	183	86	976
Thompson, George K., Malden, assignor to American Bell Telephone Company, Boston, Mass. Switchboard-connecting cord-circuit	620,002	Feb. 21	2208	503	86	1282

Alphabetical list of patentees—Continued.

Name, residence, and invention.	No.	Date.	Monthly volume. Spec.	Monthly volume. Drgs.	Official Gazette. Vol.	Official Gazette. Page
Thompson, George K., Malden, assignor to American Bell Telephone Company, Boston, Mass. Repeating and transmitting telephone	628,046	July 4	157	33	88	33
Thompson, George K., Malden, and T. C. Wales, Jr., Newton, assignors to American Bell Telephone Company, Boston, Mass. Telephone connecting-circuit	626,111	May 30	4010	915	87	1553
Thompson, George L., Chicago, Ill. Bicycle-step	625,368	May 23	2584	588	87	1264
Thompson, George N., Suffield, Conn. Plant-hoeing device	623,225	Apr. 18	1904	437	87	399
Thompson, George S, Epping, N. H. Coupling for whiffletrees	630,462	Dec. 19	2363	544	89	2364
Thompson, Henry E., Cameron, N. C. Automatic fire and burglar alarm	623,441	Apr. 18	2295	525	87	479
Thompson, Herbert H., Gravelly, England. Ball-bearing adjustment	619,367	Feb. 14	1060	238	86	1037
Thompson, Horace, Concord, N. H. Reversible handle for brooms	626,820	June 13	1106	248	87	1846
Thompson, Hugh P, and L. Monté, assignors to Shone Company, Chicago, Ill. Means for starting and regulating oil or gas engines	626,252	June 6	60	14	87	1626
Thompson, James L., Chicago, Ill. Combined cigar cutter and stamper	629,828	Aug 1	122	29	88	744
Thompson, James S., *et al.* (See Seavey, Charles O., assignor.)						
Thompson, Jefferson D., Washington, D. C. Skylight-operator	618,257	Jan. 24	2677	593	86	570
Thompson, Jesse M, Chicago, Ill. Locomotive	637,430	Nov. 21	2330	503	89	1427
Thompson, John A., *et al.* (See Seavey, Charles O., assignor.)						
Thompson, John J. (See McIntyre, Donald L. M., assignor.)						
Thompson, John S, Chicago, Ill. Electrical selective apparatus	618,144	Jan. 24	2467	549	86	533
Thompson, Joseph E. (See Parker and Thompson.)						
Thompson, Joseph H. (See Darragh, John H., assignor.)						
Thompson, Joseph H. (See Rumble, Alexander C., assignor.)						
Thompson, Joseph R., New York, N. Y. Bottle-stopper lock	621,385	Mar. 21	1570	348	86	1831
Thompson, Joseph W. (See Burson, Amos, assignor.)						
Thompson, Joseph W, Salem, Ohio. Rivet-setting tool	637,489	Nov. 21	2433	528	89	1446
Thompson, Josiah. (See Pitkin, Frank H., assignor.)						
Thompson, Leon S., Washington, D. C. Ship's telegraph for transmitting signals, orders, &c	623,637	Apr. 25	2647	605, 606, 607	87	564
Thompson, M. J., *et al.* (See Howell, Philip, assignor.)						
Thompson, Mary E., San Francisco, Cal. Corset-stay	639,463	Dec. 19	2365	544	89	2364
Thompson, Mary E., assignor of two-thirds to N. W. Armstrong, New York, N. Y., and G. A. A. Deane, Little Rock, Ark. Hair-crimper	619,805	Feb. 21	1875	427	86	1219
Thompson, Melvin E., Clermont, Pa. Clothes-pin	623,442	Apr. 18	2296	526	87	480
Thompson, Nicholas. (See Hardie and Thompson.)						
Thompson & Norris Company. (See Chapin, William G., assignor.)						
Thompson & Norris Company. (See Duerden, Lawrence L., assignor.)						
Thompson, Oliver E., Ypsilanti, Mich. Root-cutter	635,450	Oct. 24	2778	635	89	597
Thompson, Rachel. (See Bratton, Robert J., assignor.)						
Thompson, Richard H., Osceola Mills, Pa. Nut-lock	634,776	Oct. 10	1475	347	89	310
Thompson, Robert A., assignor of one-half to J. G. Wenges, Harper, Kans. Gearing for windmills	622,089	Mar. 28	2876	648	86	2100
Thompson, Robert R., Bloomington, Ill., assignor to National Mattress Machine Company, Boston, Mass. Mattress-stuffing machine	628,047	July 4	159	33, 34	88	33
Thompson, Rolland, Passaic, N. J., assignor of one-half to J. Dunphy, New York, N. Y. Coupling for electric or other wires	631,864	Aug. 29	3961	886	83	1564
Thompson, Rolland, Newark, N. J., assignor of one-half to J. Dunphy, New York, N. Y. Coupling for electric or other wires	639,464	Dec. 19	2366	544	89	2365
Thompson, Sam B., assignor of one-fifth to C. E. Roper and E. R. Abbott, Norfolk, Va. Folding crate	623,849	Apr. 25	3060	704	87	644
Thompson, Samuel, Schaghticoke, N. Y. Drill-chuck	621,624	Mar. 21	1995	445	86	1912
Thompson, Samuel, Morris, Ill. Door-hanger	634,041	Oct. 3	101	26	89	24
Thompson & Son, Henry G. (See Burton, Charles M., assignor.)						
Thompson, Stephen G. (See Lee, Herbert K., assignor.)						
Thompson, T. J., *et al.* (See Canfield, Frank, assignor.)						
Thompson, Thomas, assignor to Armstrong Cork Company, Pittsburg, Pa. Cork-finishing machine	638,528	Dec. 5	650	135	89	1990
Thompson, Virginius D. (See Girardeau, Thompson, and Beal.)						
Thompson, William. (See Campbell, Hugh, assignor.)						
Thompson, William C., *et al.* (See Beighey, William J., assignor.)						
Thompson, William H., Gateshead, England. Mechanical joint	634,595	Oct 10	1161	276	89	248
Thompson, William J. (See Becker and Thompson.)						
Thompson, William J., West Kogarah, New South Wales. Driving-gear for bicycles	620,003	Feb. 21	2210	503	86	1282
Thompson, William J. D., Toronto, Canada. Slitting-knife for excelsior-cutting machines	627,765	June 27	2891	632	87	2236
Thompson, William W., Passaic, N. J., assignor to Continental Match Company, of New Jersey. Locking device for match-frames	625,522	May 23	2846	648	87	1315
Thompson, Willis M., Marquette, Mich. Padlock	631,389	Aug. 22	3091	699	88	1383
Thomsen, Carl H., and H. J. M. Jörgensen, Memphis, Tenn. Folding coop	639,628	Dec. 19	2652	608	89	2423
Thomson, Alexander, Lake Charles, La. Rotary pump	619,368	Feb. 14	1061	238	86	1037
Thomson, Arthur W., New York, N. Y. Educational appliance	627,365	June 20	2145	472	87	2072
Thomson, Bessie W. (See Spracklen, Peter J., assignor.)						
Thomson, Elihu, Swampscott, Mass., assignor to General Electric Company, of New York. Controlling electric motors and trains	617,546	Jan. 10	1302	294	86	273
Thomson, Elihu, Swampscott, Mass., assignor to General Electric Company, of New York. System of electrical distribution	625,816	May 30	3393	770	87	1439
Thomson, Elihu, Swampscott, Mass., assignor to General Electric Company, of New York. Electrostatic measuring instrument	627,155	June 20	1740	382	87	1990
Thomson, Elihu, Swampscott, Mass., assignor to General Electric Company, of New York. System of electric metering	631,343	Aug. 22	3000	680	88	1365
Thomson, Elihu, Swampscott, Mass., assignor to General Electric Company, of New York. Electrical measuring instrument	634,965	Oct. 17	1810	429	89	393
Thomson, Elihu, Swampscott, Mass., assignor to General Electric Company, of New York. Electric meter	635,159	Oct. 17	2194	512	89	468
Thomson, Elihu, Swampscott, Mass., assignor to General Electric Company, of New York. Summation-meter	635,880	Oct. 31	3573	822	89	764
Thomson, Elihu, Swampscott, Mass., assignor to General Electric Company, of New York. Electric meter	635,881	Oct. 31	3576	823	89	764
Thomson, Frederick W. (See Gillett and Fogg, assignors.)						
Thomson, Henry C., assignor to Electric Gas Lighting Company, Boston, Mass. Electric hand-lighting gas-burner	618,920	Feb. 7	191	41	86	842
Thomson Henry C., Boston, Mass., assignor to Electric Gas Lighting Company, of Maine. Electric annunciator	627,606	June 27	2616	576	87	2180
Thomson-Houston Electric Company. (See Hunter, Rudolph M., assignor.)						
Thomson, John, New York, N. Y., assignor to Neptune Meter Company, Jersey City, N. J. Water-meter	618,192	Jan. 24	2569	568	86	551

Alphabetical list of patentees—Continued.

Name, residence, and invention	No.	Date	Monthly volume. Spec.	Monthly volume. Dr'g.	Official Gazette. Vol.	Official Gazette. Page.
Thomson, John, New York, N. Y., assignor to Neptune Meter Company, Jersey City, N. J Disk water-meter	618,193	Jan. 24	2570	568	86	551
Thomson, John, New York, N. Y., assignor to Neptune Meter Company, Jersey City, N. J Pipe connection for water-meters	618,194	Jan. 24	2571	568	86	551
Thomson, John, New York, N. Y , assignor to Neptune Meter Company, Jersey City, N. J Disk water-meter	618,302	Jan. 24	2761	612	86	588
Thomson, Judson L., Waltham, assignor to J. Canfield, Boston, Mass. Rawhide reinforce for harness, &c	626,196	May 30	4189	952	87	1588
Thomson, Thomas F., *et al.* (See Cowper-Coles, Sherard O., assignor.)						
Thomson, Wallace G., Selby, England. Floor-cloth machine	619,634	Feb. 14	1530	347, 348, 349	86	1125
Thomson, William B., assignor to Gem Fibre Package Company, Detroit, Mich. Shipping-package	619,369	Feb. 14	1062	238	86	1037
Thonar, Michel, Namur, Belgium. Machine for cutting stone	621,547	Mar. 21	1877	415	86	1889
Thorn, Arthur B., Reedy, W. Va. Wire-stretcher	617,132	Jan. 3	527	125	86	103
Thorne Type Setting Machine Company. (See Linke, Emil F., assignor.)						
Thornley, Jasper T., Wabash, Ind. Rack for table articles	620,811	Mar. 7	511	109	86	1602
Thornley, Olney, Paradise, Okla. Ter. Trap	617,617	Jan. 10	1435	327	86	298
Thornley, William. (See Sandford, Thornley, and Silcocks.)						
Thornton, Henry H., assignor to Roberts Iron Works Company, Cambridge, Mass. Planing-machine	638,610	Dec 5	797	172	89	2019
Thornton, John E., Altringham, England. Photographic shutter	624,705	May 9	1385	309, 310	87	991
Thornton, John E., Altringham, England. Cardboard box	625,858	May 30	3469	787	87	1454
Thornton, John E., Altrincham, and J. P. Lea, Manchester, England. Steam-generator	622,404	Apr. 4	352	82	87	66
Thornton, John E., and J. P. Lea, Altringham, England. Friction-gear	625,859	May 30	3470	787	87	1454
Thornton, John E., Altringham, and J. P. Lea, Manchester, England. Pneumatic wheel	628,562	July 11	1158	271	88	243
Thornton, Wilber R., Berthoud, Colo. Irrigating system	625,860	May 30	3471	787	87	1454
Thornycroft, John E., London, England. Steam-generator	639,952	Dec. 26	3255	745, 746	89	2560
Thornycroft, John I., London, England. Steam-engine	617,889	Jan. 17	1972	440, 441	86	424
Thornycroft, John I., London, England. Apparatus for condensing steam	622,872	Apr. 11	1250	289, 290	87	256
Thorp, Henry. (See Reid and Thorp.)						
Thorp, William H., Beaver Dam, Wis. Railway-switch	621,386	Mar. 21	1571	348, 349	86	1831
Thorp, William N., and F. G. Normart, Fresno, Cal. Adjustable hanger for incandescent lamps	629,406	July 25	2708	630	88	584
Thorpe, John T., Baltimore, Md. Pants-holder	620,260	Feb. 28	2680	614	86	1386
Thorpe, John T., Baltimore, Md. Pants-holder	620,261	Feb. 28	2681	615	86	1386
Thorsen, Gilbert, Letcher, S. D. Singletree-clevis	617,264	Jan. 3	760	178	86	150
Thorsen, John, North Aurora, Ill. Combined lighting and alarm device	620,513	Feb. 28	3093	708	86	1466
Thorsen, Ole A., and J. E. Shutt, Ganado, Tex. Filling-box for cotton-presses	634,839	Oct. 10	1586	372	89	332
Thorvaldson, Thorber. (See Johnson, Bjarni J., assignor.)						
Thorwegen, Theodore, *et al.* (See Betzold, Adolph, assignor.)						
Thost, Otto, Zwickau, Germany. Hot-air fire-bridge	631,479	Aug. 22	3250	737	88	1414
Thowless, Orlando M., Newark, N. J. Burner for incandescent lamps	633,350	Sept. 19	2187	514	88	2164
Thowless, Orlando M., Newark, N. J. Composite wire and manufacture	633,668	Sept. 26	2774	------	88	2291
Thrall, William A., Chicago, Ill. Railway mileage-ticket	617,205	Jan. 3	651	152, 153	86	128
Threewits, Alvin M., Centreville, Ind. Railway-switch	632,289	Sept. 5	155	36	88	1738
Threlfall, Richard, Preston, England. Treating flue-dust and fume obtained from sulfid ores	627,024	June 13	1508	------	87	1925
Threlfall, William V. (See Garcelon and Threlfall.)						
Threlfall, William V., assignor to Pettee Machine Works, Newton, Mass. Revolving-flat carding-engine	620,089	Feb. 21	2366	536	86	1312
Threlfall, William V., Biddeford, Me., assignor to Saco & Pettee Machine Shops, Newton, Mass. Speeder	637,047	Nov. 14	1568	338	89	1264
Threlfall, William V., Biddeford, Me., assignor to Saco & Pettee Machine Shops, Biddeford, Me., and Newton, Mass. Yielding bearing for spindle-shafts of roving-machines	639,000	Dec. 12	1514	347	89	2181
Threlfall, William V., Biddeford, Me., assignor to Saco & Pettee Machine Shops, Biddeford, Me., and Newton, Mass. Covering-plate for rails, bolsters, or steps in roving-machines	639,001	Dec. 12	1515	347	89	2181
Thresher, Seneca H. (See Wright, Alfred H., assignor.)						
Throckmorton, Cecil, Glennies Creek, New South Wales. Burner for oil-lamps	623,443	Apr. 18	2297	526	87	480
Throne, James L. (See Rose, Edward C., assignor.)						
Thrush, John W., Keyser, W. Va. Plow	634,740	Oct. 10	1421	335	89	300
Thuemler, Hugo, Sewickley, Pa. Decorating glassware	628,131	July 4	326	------	88	66
Thuemling, Julius. (See Blaha, Anton, assignor.)						
Thuillier, Georges, Nogent-en-Bassigny, France. Scissors for cutting leather, &c	636,473	Nov. 7	414	92	89	1005
Thuillier, Georges, Nogent-en-Bassigny, France. Hand-shears for cutting sheet metal	639,874	Dec. 26	3110	715	89	2530
Thum, William, Grand Rapids, Mich. Sticky fly-paper	632,827	Sept. 12	1182	270	88	1958
Thummel, John, Fort Worth, Tex. Valve	630,949	Aug. 15	2278	518	88	1204
Thun, Ferdinand, and H. Janssen, Reading, Pa. Skirt-braid	626,397	June 6	346	80	87	1681
Thun, Karl, Barmen, Germany, assignor to Farbenfabriken of Elberfeld Company, of New York. Gray-black anthraquinone dye and making same	623,638	Apr. 25	2651	------	87	564
Thurber, Charles F., Olean, N. Y. Rotary pump	630,426	Aug. 8	1357	303	88	1001
Thurber, Charles F., assignor of three-fourths to O. F. Carley, F L. Gleason, W. M., Jr., and L. J. Abrams, Olean, N. Y. Punch and shear machine	631,137	Aug. 15	2628	595	88	1273
Thurber, Walter M., Valley City, N. D. Tool for farriers' use	632,072	Aug. 29	4341	975	88	1636
Thurgar, Edmund W. (See Jones, Frederick W., assignor.)						
Thurlow, Clarence E., Boston, Mass. Apparatus for maintaining pressure in beer-casks	624,129	May 2	338	69	87	765
Thurman, John S., St. Louis, Mo. Oil-burner	624,130	May 2	341	70	87	765
Thurman, John S., St. Louis, Mo. Pneumatic carpet-renovator	634,042	Oct. 3	101	26	89	24
Thurman, William, Denton, Tex. Penholder	630,133	Aug. 1	759	164	88	873
Thurmond, James E., Billings, Mont. Shears	624,706	May 9	1389	310	87	992
Thurmond, William H., assignor of one-half to J. M. Harrison, Forsyth, Ga. Back-band and trace connector	635,408	Oct. 24	2691	616	89	580
Thurneyssen, Emil. (See Hundertmark, Charles L. H. de, assignor.)						
Thurston, Edwin C. (See Spalding and Thurston.)						
Thurston, Edwin L., Cleveland, Ohio. Workman's time-recorder	632,907	Sept. 12	1338	307	88	1985
Thurston, Horace, *et al.* (See Turck, Joseph A., assignor.)						
Thurston, Horace, Providence, R. I., assignor of three-fourths to C. E. and A. S. Brown and C. H. Schott, New York, N. Y. Button	624,996	May 16	1914	429	87	1112

Alphabetical list of patentees—Continued.

Name, residence, and invention.	No.	Date.	Monthly volume. Spec.	Monthly volume. Dr'g.	Official Gazette. Vol.	Official Gazette. Page.
Thurston, Samuel H., Long Branch, N. J. Coating one metal with another, &c	622,732	Apr. 11	989	------	87	207
Thwaite, Benjamin H., assignor of one-half to F. L. Gardner, London, England. Apparatus for separating dust from blast-furnace gases	617,618	Jan. 10	1436	328	86	299
Thwing, Charles B., Galesburg, Ill. Solder for aluminium or other metals	638,855	Dec. 12	1244	------	89	2128
Thwing, George W. (See Gunlock and Thwing.)						
Thŷm, Adolf, Katzhütte, Germany. Mud-guard for cycles	635,614	Oct. 24	3061	702	89	651
Tibbetts, Daniel B., Brockton, Mass. Stovepipe-damper	627,156	June 20	1742	382	87	1990
Tibbitts, Frank R., Cleveland, Ohio. Grate-bar for furnaces	637,304	Nov. 21	2089	450	89	1377
Tibbs, Smith G., *et al.* (See Forsyth, Charles E., assignor.)						
Tibbs, Smith G., *et al.* (See Wilke, Ferdinand, assignor.)						
Tice, Vallie G., Spring Creek, Pa. Butter-shredder	625,215	May 16	2291	522	87	1182
Tice, William A., Philadelphia, Pa., assignor of one-half to D. B. Owen, Camden, N. J. Apparatus for resurfacing asphalt pavements	628,421	July 4	879	207	88	169
Tichenor, William A., Chicago, Ill. Water-heater	619,101	Feb. 7	572	122, 123	86	923
Tichenor, William S., and J. F. Williams, Owensville, Ind. Rotary engine	627,832	June 27	3010	657, 658	87	2258
Tickner, Willis A., Marshall, Wash. Bicycle-gearing	620,060	Feb. 21	2320	527	86	1303
Tidemann, Henry G., St. Louis, Mo. Hand-hole plate	629,829	Aug. 1	123	30	88	745
Tidland, William H., Nicollet, Minn. Grading and ditching machine	620,725	Mar. 7	342	70, 71	86	1568
Tidmarsh, Harry E., Sandy Hill, N. Y. Paper-pulp screen	627,244	June 20	1890	414, 415, 416	87	2020
Tiemann, Fred, Basco, Ill. Revolving harrow	617,063	Jan. 3	396	96, 97	86	77
Tienhoven, Baltazar W., assignor to C. Bakker, N. J. Boon, E. L. C. Schiff, J. C. Gondriaan, The Hague, and A. Van Wyck, Renkum, Netherlands. Rotary motor	633,669	Sept. 26	2776	645	88	2291
Tierney, John H., Lewiston, Me. Case for smokers' pipes	630,756	Aug. 8	1929	437	88	1111
Tietjen, George H., assignor to L. H. Moise, San Francisco, Cal. Metal sign	618,019	Jan. 17	2201	492	86	468
Tiffany, Charles M., New York, N. Y., assignor of two-thirds to Atlantic Stevedoring Company, of New Jersey. Stevedore's lifting-hooks	626,350	June 6	249	58	87	1662
Tiffany, George S., Highland Park, Ill., assignor to Gray National Telautograph Company, Richmond, Va. Telautograph	617,890	Jan. 17	1976	441, 442	86	425
Tiffany, George S., Highland Park, Ill., assignor to Gray National Telautograph Company, Richmond, Va. Telautograph	617,891	Jan. 17	1980	442	86	426
Tiffany, George S., Highland Park, Ill., assignor to Gray National Telautograph Company, Richmond, Va. Telautograph	617,892	Jan. 17	1983	443	86	426
Tiffany Glass and Decorating Company. (See McIlhiney, Parker C., assignor.)						
Tilden, Bert O., Detroit, Mich. Pipe-fitting	626,944	June 13	1366	300	87	1897
Tilden, Burt E. (See Burns and Pickles, assignors.)						
Tilden, Burt E., Chicago, Ill. Replacing-frog for cars or locomotives	632,476	Sept. 5	487	111	88	1803
Tilden, Burt E., Chicago, Ill. Railway replacing-frog	632,477	Sept. 5	488	111	88	1803
Tilden, Frank W., Hinsdale, N. H., assignor to E. H. Morgan, Montague City, Mass. Sand-box for track-sanding devices	624,131	May 2	342	70	87	765
Tilden, George G. (See Phillips and Tilden.)						
Tilden, George T., Milton, Mass. Tilting tank for receiving or discharging liquids	621,982	Mar. 28	2706	611	86	2065
Tilden, Marshall, Washington, D. C. Roll-paper holder and printer	623,049	Apr. 11	1549	358	87	316
Tilgner, Charles, New York, N. Y. Cuff-button link	635,985	Oct. 31	3788	872	89	807
Tiller, William M., Point Peter, Ga. Plow	634,777	Oct. 10	1476	347	89	310
Tilley, Edwin F. (See Hall and Tilley.)						
Tillinghast, Henry G., Baltimore, Md. Float-valve	633,351	Sept. 19	2189	514	88	2164
Tillison, Hosea R. (See Woods, Tillison, and Blood.)						
Tillmes, August, Philadelphia, Pa. Incandescent lamp	624,265	May 2	588	125	87	811
Tillotson, James, Grand Rapids, Mich. Fastening for furniture	619,516	Feb. 14	1322	303	86	1089
Tilly, John A., New York, N. Y. Mail-box	632,796	Sept. 12	1123	258, 259	88	1945
Tilson, Richard W., *et al.* (See Wheelock, Joseph H., assignor.)						
Tilton, James M., Isleta, Ohio. Wrench	635,207	Oct. 17	2274	529	89	482
Tilyou, George C., New York, N. Y. Stairway	624,405	May 2	840	189	87	862
Tilyou, George C., and J. M. A. Lacomme, New York, N. Y. Amusement device	632,597	Sept. 5	702	162, 163	88	1845
Timewell, Alfred. (See Day and Timewell.)						
Timewell, Charles E. (See Day and Timewell.)						
Timewell Sack Filling and Sewing Machine Company. (See Curtis, Lewis E., assignor.)						
Timm, August P. (See Black, Charles W., assignor.)						
Timmann, Conrad, Hamburg, Germany. Smokeless furnace	638,034	Nov. 28	3829	805	89	1782
Timmis, William, assignor of one-half to F. W. Bailey and C. B. Pier, Pittsburg, Pa. Combined track and wheel brake	630,950	Aug. 15	2280	519	88	1205
Timmons, Elmer J., Cincinnati, Ohio. Nut-lock	638,078	Nov. 28	3888	818	89	1794
Timmons, Herman W., Groveland, Ind. Fence-post bracket	631,138	Aug. 15	2629	595	88	1273
Timms, James, Columbus, Ohio. Car-coupling	624,707	May 9	1390	311	87	992
Timms, James, Columbus, Ohio. Hot-air furnace	639,465	Dec. 19	2367	545	89	2365
Tincher, Joseph E. (See Goodbaudy, Samuel, assignor.)						
Tindal, Henry, Amsterdam, Netherlands. Apparatus for generating ozone	636,868	Nov. 14	1216	262, 263	89	1194
Tingle, John E., Indianapolis, Ind. Mail-pouch lock	632,598	Sept. 5	704	163	88	1846
Tingley, Egbert M., Pittsburg, Pa., assignor to Westinghouse Electric and Manufacturing Company, of Pennsylvania. Automatic electromagnetic friction-brake	633,969	Sept. 26	3292	767	88	2395
Tinkey, Monroe. (See Fry, Joseph W., assignor.)						
Tinkham, Francis M., Springfield, Mass. Bed-bottom frame	632,478	Sept. 5	489	112	88	1803
Tinkham, Frank J. (See Webb, George B., assignor.)						
Tinsman, Samuel H., assignor to Rock Island Plow Company, Rock Island, Ill. Draft-equalizer	635,360	Oct. 24	2558	595	89	554
Tirrell, Artemus R., Unionville, Conn. Wagon-shaft and appurtenant harness	619,003	Feb. 7	402	83	86	888
Tirrell, Frederick N. (See Johnson, Richard P., assignor.)						
Tirrill, Allen A., Whitefield, assignor to Tirrill Automatic Potential Regulator Company, Laconia, N. H. Potential-regulator for dynamos	620,514	Feb. 28	3094	708	86	1466
Tirrill Automatic Potential Regulator Company. (See Tirrill, Allen A., assignor.)						
Titan Fastener Company. (See Goldberg, John S., assignor.)						
Titan Fastener Company. (See Heinemann, Emil D., assignor.)						
Titan Fastener Company. (See Heinemann and Goldberg, assignors.)						
Tittle, Reuben D., Springfield, assignor to Wonder Manufacturing Company, Washington Court-House, Ohio. Wire-tightener	638,298	Dec. 5	212	44	89	1907
Tittle, Wesley, Toledo, Ohio. Refrigerator	633,329	Sept. 19	2150	503	88	2156
Titus, Anson, National City, Cal. Dumping attachment for wheeled scrapers	617,914	Jan. 17	2028	453	86	434
Titus, Charley B. (See Kaufman, Titus, and Vanarsdale.)						
Titus, James M., assignor of two-thirds to A. B. Wood and J. M. Quicke, Jr., Petersburg, Va. Tobacco-cutter	631,449	Aug. 22	3192	725	88	1403

Alphabetical list of patentees—Continued.

Name, residence, and invention.	No.	Date.	Monthly volume. Spec.	Monthly volume. Dr'g.	Official Gazette. Vol.	Official Gazette. Page.
Titus, John, Oyster Bay, and W. Titus, North Hempstead, N. Y. Sprocket-wheel	639,002	Dec. 12	1516	347	89	2181
Titus, John, Oyster Bay, and W. Titus, North Hempstead, N. Y. Conveyer apparatus	639,003	Dec. 12	1518	348	89	2182
Titus, John, Oyster Bay, and W. Titus, North Hempstead, N. Y. Excavating apparatus	639,004	Dec. 12	1520	348	89	2182
Titus, Richard, Bowling Green, Ohio. Nut-lock	635,361	Oct. 24	2559	595	89	554
Titus, William. (See Titus, John and W.)						
Tivy, William H., and J. E. Hill, assignors to American Roll Paper Company, St. Louis, Mo. Twine-holder	623,493	Apr. 18	2380	547	87	496
Tivy, William H., and J. E. Hill, assignors to American Roll Paper Company, St. Louis, Mo. Take-up device for twine-holders	623,494	Apr. 18	2381	548	87	496
Tkatsch, Akim. (See Julius and Tkatsch.)						
Tobey, Fred W., Grand Rapids, Mich. Device for supporting and adjusting mirrors	625,216	May 16	2293	522	87	1183
Tobey, Fred W., Grand Rapids, Mich. Combined latch and lock	625,217	May 16	2294	522	87	1183
Tobey, Fred W., Grand Rapids, Mich. Hinge and support for desk-lids	634,379	Oct. 3	778	186	89	154
Tobey, William L., Boston, Mass. Opening die-head for cutting threads on bolts or pipes	638,299	Dec. 5	213	45	89	1907
Tobias, William R., Perth Amboy, N. J. Machine for mounting photographic prints, &c.	636,474	Nov. 7	416	93	89	1005
Tobie, Albert J., New York, N. Y. Device for forming plaster cornices	637,431	Nov. 21	2332	503, 504	89	1427
Tobin, John, Montclair, N. J. Tobacco-pipe	626,112	May 30	4015	915	87	1553
Tobin, Robert. (See Terfloth, Bernard, assignor.)						
Toboldt, Albert L. A. (See Loeben, Gustave A., assignor.)						
Toborg, Emil L. G., Little Falls, N. Y. Account and sales book	621,387	Mar. 21	1574	349	86	1832
Tochtermann, Robert F., London, England. Lady's-hair-retaining comb	622,568	Apr. 4	689	160	87	131
Tochtermann, Robert F., New York, N. Y. Coin-operated device for dispensing liquids	639,114	Dec. 12	1699	392	89	2217
Tochtermann, Robert F., New York, N. Y. Coin-guard or controlling device for coin-operated machines	639,115	Dec. 12	1701	392	89	2218
Todd, Albert M., Kalamazoo, Mich. Machine for digging and harvesting roots of peppermint	620,198	Feb. 28	2575	585	86	1365
Todd, Everett S. (See Todd, William F., assignor.)						
Todd, Marquis J., Buffalo, N. Y. Harrow	631,598	Aug. 22	3485	787	88	1462
Todd, Richard, Heaton Chapel, and J. A. Stott, Manchester, England. Apparatus for spinning textile fibers	624,132	May 2	343	70	87	765
Todd, Richard, Heaton Chapel, and J. A. Stott, Manchester, England. Apparatus for spinning textile fibers	624,266	May 2	588	126	87	811
Todd, William F., assignor of one-half to E. S. Todd, Pontiac, Mich. Eyeglasses	633,670	Sept. 26	2776	645	88	2291
Toennes, Richard, Boonville, Mo. Rotary engine	632,073	Aug. 29	4342	976	88	1637
Toerring, Christian J., Philadelphia, Pa. Electric-arc lamp	631,055	Aug. 15	2488	563	88	1246
Toffaleti, Antonio. (See Certain, Jerry M., assignor.)						
Tole, Thomas, administrator. (See Chapman, George.)						
Toledo Glass Company. (See Colburn, Henry J., assignor.)						
Toledo Glass Company. (See Owens, Michael J., assignor.)						
Toledo Metal Sign and Advertising Company. (See Patton, William F., assignor.)						
Toliver, George E. (See Lay and Toliver.)						
Tolle, Charles, Godfrey, Ill., assignor of one-half to H. Tolle, Denver, Colo. Tenoning-bit	631,344	Aug. 22	3002	681	88	1365
Tolle, George W., St. Louis, Mo. Air-compressor	636,013	Oct. 31	3838	883	89	816
Tolle, Henry. (See Tolle, Charles, assignor.)						
Tolle, Max, Cologne, Germany. Astatic centrifugal governor	621,871	Mar. 28	2479	553	86	2023
Tolman, Scott H., Boston, Mass. Corset	630,134	Aug. 1	761	164	88	874
Toltz, Max. (See Lipschutz and Toltz.)						
Toltz, Max. (See Robinson and Toltz.)						
Tomischka, Emerich. (See Prinz, Haber, Tomischka, and Brenner.)						
Tomkies, Arthur G., Brunnerton, New Zealand. Foot-grip for bicycle-pedals, &c	629,627	July 25	3121	726	88	663
Tomkins, Henry, Stockton-on-Tees, England. Means for charging open-hearth furnaces	617,663	Jan. 10	1519	344, 345	86	315
Tomlinson, Charles E., Syracuse, N. Y., assignor to Bevel Gear Wheel Company, Newark, N. J., and Hartford, Conn. Bicycle	635,451	Oct. 24	2779	635	89	598
Tomlinson, Herbert W., Kettering, England. Cycle-stand	622,642	Apr. 4	833	192	87	158
Tomlinson, Robert K., Brownsburg, Pa. Combined washer and wringer	622,173	Mar. 28	3045	689, 690	86	2134
Tomney, James, New York, N. Y. Electric burglar-alarm	619,448	Feb. 14	1205	274	86	1063
Tomney, James, New York, N. Y. Electric protective system	619,449	Feb. 14	1208	274, 275	86	1064
Tompkins, Charles H., Somerville, N. J. Breech-loading ordnance	628,870	July 11	1725	403, 404	88	356
Tompkins, William S., New York, N. Y. Catcher's mitten	622,733	Apr. 11	990	230	87	207
Tong, George F., assignor to M. K. Barrett, Sacramento, Cal. Can-faucet	620,262	Feb. 28	2682	615	86	1387
Toni, Francisco, London, England. Pneumatic tire	633,373	Sept. 19	2228	525	88	2171
Tonkin, John J., Oswego, N. Y., assignor to J. Eaton, Pittsburg, Pa. Steam-boiler	621,437	Mar. 21	1655	366	86	1847
Tonn, Charles F. (See Carpenter and Tonn.)						
Tonnar, A. & B. (See Waddy, Marcellus M., assignor.)						
Tonner, William E. (See Lindsay and Tonner.)						
Toof, Edwin J. (See Ammerman, William M., assignor.)						
Toof, Edwin J. (See Ammerman and Toof.)						
Toof, Edwin J. (See Avery, Charles E., assignor.)						
Toohey, John M., *et al.* (See Porter, Henry W., assignor.)						
Toomey, James C., assignor of one-third to W. Irving, Chicago, Ill. Damper-regulator	620,380	Feb. 28	2886	660, 661	86	1426
Toomey, Jeremiah D., Jr., *et al.* (See Brown, Robert A., assignor.)						
Toomey, Thomas, Scranton, Pa. Rein-operating device	624,578	May 9	1167	262	87	949
Toomey, Thomas, Scranton, Pa. Rein-operating device	624,579	May 9	1168	262	87	949
Topham, John T. (See Ansley and Topham.)						
Topham, William B., *et al.* (See Stephens, Dabney B., assignor.)						
Torbensen, Viggo V., Westville, N. J., assignor to G. T. Harris, Philadelphia, Pa. Gearing	632,886	Sept. 12	1302	299	88	1978
Torchiani, Harry. (See Lorenz, Andreas, assignor.)						
Torchiani, Harry. (See Miller, William L., assignor.)						
Torchiani, Harry. (See Rau, Emauuel, assignor.)						
Torgerson, Hans, Hegbert, Minn. Cattle-dehorner	636,932	Nov. 14	1358	290	89	1221
Torker, Joseph, Brockway, Minn. Clock winding-indicator	625,218	May 16	2295	522	87	1183
Torkilson, Andrew F., *et al.* (See Foster, William S., assignor.)						
Torkilson, John U., *et al.* (See Foster, William S., assignor.)						
Torlina, George G., Cincinnati, Ohio. Removing superfluous powder or dust from bronze prints	628,563	July 11	1159	------	88	244
Tornow, Carl. (See Stäge and Tornow.)						
Torrance, Adam G., *et al.* (See Walton, William L., assignor.)						
Torrance, Henry, Jr., Tenafly, N. J. Refrigerating system	635,882	Oct. 31	3578	823	89	765

Alphabetical list of patentees—Continued.

Name, residence, and invention.	No.	Date.	Monthly volume. Spec.	Monthly volume. Dr'g.	Official Gazette. Vol.	Official Gazette. Page.
Torre, Manuel A., Merida, Mexico. Machine for cleaning vegetable fibers	636,086	Oct. 31	4012	917	89	850
Torrey, Herbert G., Stirling, N. J. Alloy for bearings, &c	635,615	Oct. 24	3062		89	651
Torrey Roller Bushing Works. (See Lester, Allen H., assignor.)						
Torroella, José, Merida, Mexico. Machine for cleaning hemp	618,750	Jan. 31	3585	800	86	761
Totdahl, Benhardus M., St. Olaf, Minn. Windmill-regulator	632,929	Sept. 12	1370	316	88	1991
Totham, James, assignor to Peck Bros. & Company, New Haven, Conn. Washbasin	629,628	July 25	3122	726	88	663
Totham, James, assignor to Peck Bros. & Company, New Haven, Conn. Basin faucet and trimmings	638,611	Dec. 5	800	173	89	2019
Totman, Perry C., Cassadaga, N. Y. Strainer attachment for kettles, &c	625,523	May 23	2847	649	87	1315
Totten, Harley J., Dixon, Nebr. Pig-forceps	617,371	Jan. 10	989	227	86	211
Totten & Hogg Iron and Steel Foundry Company. (See Freeman, Francis L., assignor.)						
Toulotte, Bertin, Far Hills, N. J. Stopper-extractor	637,048	Nov. 14	1571	339	89	1264
Toulouse, Albine. (See Delorieux, John, assignor.)						
Tousey, William G., Somerville, Mass. Water-filter	624,580	May 9	1169	263	87	949
Tousey, William G., Somerville, Mass. Water-filter	634,512	Oct. 10	1018	243	89	221
Tousley, Edgar M., deceased; W. F. Stone, administrator, assignor of one-half to C. W. Morgan, Jamestown, N. Y. Bale-tie machine	639,466	Dec. 19	2368	545, 546	89	2365
Tousley, Edgar M., deceased; W. F. Stone, administrator, assignor of one-half to C. W. Morgan, Jamestown, N. Y. Bale-tie machine	639,467	Dec. 19	2371	546, 547	89	2366
Toussaint, Julius F. (See Liebmann and Toussaint.)						
Towell, Jesse C., Kingman, Ind. Angle-bar	623,191	Apr. 18	1851	424	87	388
Tower, Ashley B., and J. H. Wallace, assignors to Tower & Wallace, New York, N. Y. Driving connection for paper machinery	620,619	Mar. 7	127	26	86	1527
Tower, Beauchamp, London, England. Apparatus for steadying guns on shipboard	640,051	Dec. 26	3435	789, 790	89	2597
Tower-Binford Electric and Manufacturing Company. (See Tower, George A., assignor.)						
Tower, Daniel W., Grand Rapids, Mich. Drawer-pull	634,778	Oct. 10	1477	347, 348	89	310
Tower, Daniel W., Grand Rapids, Mich. Brush	637,680	Nov. 21	3163	656	89	1630
Tower, George A., assignor to Tower-Binford Electric and Manufacturing Company, Richmond, Va. Electric motor for fans	636,087	Oct. 31	4013	917	89	850
Tower, Herbert L., Coventry, N. Y. Egg-tester	628,966	July 18	1908	444	88	408
Tower, John J. (See Cole, John M., assignor.)						
Tower, John J. (See Converse, Maschil D., assignor.)						
Tower, John J., New York, N. Y. Handcuff	636,589	Nov. 7	633	139	89	1050
Tower & Lyon. (See Converse, Maschil D., assignor.)						
Tower & Wallace. (See Tower and Wallace, assignors.)						
Tower, Wallace G., and A. F. Bauer, Kansas City, Mo. Beef-splitting machine	637,490	Nov. 21	2435	528, 529	89	1446
Towne, Lorin W., Keene, N. H. Road or street scraping machine	630,275	Aug. 1	995	219, 220	88	919
Towner, James L., Philadelphia, Pa. Boulder-depressor	634,921	Oct. 17	1731	411	89	376
Towns, Albert O., deceased, (H. White, executor,) Hudson, N. H., and T. Barrett, Boston, Mass., assignors, by mesne assignments, to W. P. and H. White and C. B. Crouse, Utica, N. Y. Sewing-machine	629,881	Aug. 1	243	54, 55	88	767
Townsend, David, Philadelphia, Pa. Metallurgical furnace	618,751	Jan. 31	3587	800, 801	86	761
Townsend, George, Handsworth, England. Spring-wheel	620,061	Feb. 21	2321	527	86	1303
Townsend Manufacturing Company. (See Robbins, Frederick O., assignor.)						
Townsend, O. C., *et al.* (See Lloyd, William H., assignor.)						
Townsend, Thomas C. (See Bryant and Townsend.)						
Tozer, Mervin W., Dunton, Colo. Tool	637,185	Nov. 14	1854	390	89	1315
Trabue, William, assignor of three-fourths to U. E. Eaches, W. R. Johnston, and H. Dumesnil, Louisville, Ky. Pocket-lighter	619,635	Feb. 14	1534	349	86	1127
Tracy, Harriet R., New York, N. Y. Sewing-machine	626,470	June 6	467	109	87	1704
Tracy, Harriet R., New York, N. Y. Elevator	630,473	Aug. 8	1446	323	88	1018
Tracy, Harriet R., Paris, France. Elevator	634,513	Oct. 10	1020	243	89	221
Tracy, Harriet R., Paris, France. Elevator	635,362	Oct. 24	2561	596	89	555
Tracy, James F., Pittsburg, assignor of one-half to W. H. McFadden, Allegheny, Pa. Electric crane	629,936	Aug. 1	379	82	88	798
Trafton, Frank, assignor of one-half to C. W. Dunbar, Brighton, Iowa. Spittoon	621,872	Mar. 28	2481	554	86	2023
Trainer, James W. (See Fogarty, John J., assignor.)						
Trainer, James, Peniel, assignor of one-half to W. R. Edwards, Wales, Ohio. Spring-heel horseshoe	637,219	Nov. 14	1923	412	89	1329
Traitel, Benjamin D., and W. C. Leiber, assignors to Traitel Brothers & Co., New York, N. Y. Plunger-head for tile-presses	637,752	Nov. 21	3286	685, 686	89	1654
Traitel Brothers & Co. (See Traitel and Leiber, assignors.)						
Trammel, William H., Huntington, Ind. Hose-holder	619,517	Feb. 14	1323	303	86	1089
Translucent Window Sign Company. (See Troeger, Carl, assignor.)						
Trant, Lewis E. (See Darbey and Trant.)						
Trantom, Joseph, Liverpool, England. Rein-holder	628,501	July 11	1025	239	88	218
Trapani, Ignazio. (See Cavallaro, Francisco, assignor.)						
Traphagen, William H., assignor to Emerson Manufacturing Company, Rockford, Ill. Cultivator	629,727	July 25	3296	768, 769	88	696
Traphagen, William H., assignor to Emerson Manufacturing Company, Rockford, Ill. Stalk-cutter	629,728	July 25	3296	769	88	696
Traphagen, William H., assignor to Emerson Manufacturing Company, Rockford, Ill. Cultivator	629,729	July 25	3297	769, 770	88	697
Traphagen, William H., assignor to Emerson Manufacturing Company, Rockford, Ill. Corn-planter	629,730	July 25	3299	770	88	697
Traphagen, William H., assignor to Emerson Manufacturing Company, Rockford, Ill. Pitman connection	630,135	Aug. 1	762	164	88	874
Traphagen, William H., assignor to Emerson Manufacturing Company, Rockford, Ill. Disk harrow	632,479	Sept. 5	491	112	88	1804
Trapp, Susanna B., New York, N. Y. Safety appliance for elevators	634,966	Oct. 17	1813	429, 430	89	393
Trask, Reuben S., Alpena, Mich. Device for moving loaded wagons	631,480	Aug. 22	3251	737, 738	88	1414
Traun, Heinrich, Hamburg, Germany. Nail, hook, or staple	617,064	Jan. 3	397	97	86	77
Trautner, Heinrich, Kaiserslautern, Germany. Organ	627,281	June 20	1957	431	87	2033
Travaglini, Antonio, assignor to J. B. Hall, Philadelphia, Pa. Mat or matting	621,548	Mar. 21	1878	416	86	1889
Travaglini, Antonio, assignor to J. B. Hall, Philadelphia, Pa. Die for making mosaics	625,070	May 16	2043	459	87	1136
Travaglini, Antonio, assignor of one-half to C. De Benedictis, Philadelphia, Pa. Die for cutting marble, granite, &c	624,581	May 9	1172	263	87	950
Travaglini, Antonio, assignor of one-half to C. D. Benedictis, Philadelphia, Pa. Gas-operated firearm	630,136	Aug. 1	764	165	88	874

Alphabetical list of patentees—Continued.

Name, residence, and invention.	No.	Date.	Monthly volume. Spec.	Monthly volume. Dr'g.	Official Gazette. Vol.	Official Gazette. Page.
Travers, Fergus J., and C. H. Smith, Toronto, Canada. Steam and hot-water radiator	632,974	Sept. 12	1441	334	88	2005
Traves, Edmund C. (See Traves, Webster F., assignor.)						
Traves, Webster F., assignor to himself and E. C. Traves, Nelson, Canada. Seal-lock	638,079	Nov. 28	3889	819	89	1794
Travis, Charles L., Minneapolis, Minn. Bicycle	618,626	Jan. 31	3361	747, 748	86	716
Travis, Charles L., Minneapolis, Minn. Bicycle	618,627	Jan. 31	3362	748	86	716
Travis, Charles L., Minneapolis, Minn. Coupling for pipes or tubes	629,705	July 25	3249	756	88	687
Travis, Charles L., Minneapolis, Minn. Roller-gearing	632,599	Sept. 5	705	163, 164	88	1846
Traxler, Charles, Akron, Ohio, assignor to American Hard Rubber Company, New York, N. Y. Corrugating-machine	628,564	July 11	1160	272	88	244
Trayer, Edward P., and D. A. Reynolds, New York, N. Y. Telephone system	636,366	Nov. 7	235	52	89	968
Traylor, Robert W., Richmond, Va., assignor of one-half to M. W. Phillips, Philadelphia, Pa. Automatic alarm mechanism for electric motors	617,664	Jan. 10	1520	345	86	316
Treadgold, George H., Port Huron, Mich., assignor of one-third to P. Hanes, Gloversville, N. Y. Type-writing machine	631,833	Aug. 29	3908	874	88	1553
Treadgold, George H., Port Huron, assignor of one-half to P. Hanes, Saginaw, Mich. Type-writing machine	635,946	Oct. 31	3700	855	89	789
Treadgold, George H., assignor to J. F. White, Port Huron, Mich. Type-writing machine	635,947	Oct. 31	3703	855	89	789
Treadway, Otis A., Aberdeen, Md. Fire-escape	638,080	Nov. 28	3891	819	89	1794
Treadway, Paca H., and R. V. Parker, Reyno, Ark. Bed-spring	639,795	Dec. 26	2980	685	89	2507
Treadway, Paca H., and R. V. Parker, Reyno, Ark. Bed-brace and slat-fastener	639,796	Dec. 26	2981	685	89	2507
Treadwell, John. (See Davis, John T., assignor.)						
Treat, John B., Bottom, Tex. Vehicle-brake	619,057	Feb. 7	495	104	86	906
Trebert, Henry L., assignor to E. C. Stearns & Co., Syracuse, N. Y. Frame-joint	623,495	Apr. 18	2382	548	87	497
Treen, William H. (See Prime, Daniel N., assignor.)						
Trees, Joseph T., *et al.* (See Beam, William, assignor.)						
Trees, Joseph T., McKeesport, Pa. Paint-mill	637,362	Nov. 21	2209	475, 476	89	1402
Trefethen, Ervin T. (See Hamlin, Edward F., assignor.)						
Trefethen, Ervin T., Boston, Mass., assignor to A. O. Norton, Coaticook, Canada. Trip-jack	616,993	Jan. 3	242	56	86	48
Trefethen, Ervin T., Boston, Mass., assignor of one-half to A. O. Norton, Coaticook, Canada. Double-action jack	629,020	July 18	2003	466	88	427
Treffurth, Richard L. (See Wettergren and Treffurth.)						
Trego, Charles H., *et al.* (See Leineweber, Herman, assignor.)						
Trego, Joseph R. (See Trownsell and Trego.)						
Trego, Oscar K., Denver, Colo. Ink-well	636,733	Nov. 7	956	205	89	1126
Tregoning, Charles, New York, N. Y. Reckoner	634,779	Oct. 10	1477	348	89	310
Tregoning, John. (See Perkins and Tregoning.)						
Treibel, Otto, and A. C. Nier, St. Paul, Minn. Indicating-funnel	631,099	Aug. 15	2568	581	88	1260
Treleaven, John, assignor to H. J. Painter and C. J. Turton, Vancouver, Canada. Insulator for fastening electric wires	627,366	June 20	2147	472	87	2072
Tremain, Charles W. (See Rose and Hyatt, assignors.)						
Tremblay, Amédée, Arcadia, Oreg. Rail-joint	633,926	Sept. 26	3211	748	88	2379
Trembley, Arthur B. (See Florence and Trembley.)						
Tremmel, Leonard, Walton, N. Y. Cellar-window	618,145	Jan. 24	2470	550	86	534
Trench, John T., Kenmare, Ireland. Pneumatic tire	631,599	Aug. 22	3487	788	88	1463
Trendel, Fritz. (See Windisch, Oskar, assignor.)						
Trenton Potteries Company. (See Stover, Edward C., assignor.)						
Tresenreuter, Gustav, Berlin, Germany. Apparatus for burning hydrocarbons	617,893	Jan. 17	1986	443	86	427
Trethewey, Paul R., Muskoka Falls, Canada. Guard for freight-cars	623,580	Apr. 25	2553	586	87	547
Trethewey, Paul R., Muskoka Falls, Canada. Boat-propelling mechanism	625,942	May 30	3622	823	87	1483
Trethewey, Samuel. (See Stiefel and Trethewey.)						
Trevette, Wentworth G., assignor of one-half to L. W. Winchester, Chicago, Ill. Paper-feeding machine	628,132	July 4	326	78, 79	88	66
Trevette, Wentworth G., assignor of one-half to L. W. Winchester, Chicago, Ill. Feeding-machine attachment for printing-presses	629,830	Aug. 1	126	30, 31, 32	88	745
Trevette, Wentworth G., assignor of one-half to L. W. Winchester, Chicago, Ill. Paper-feeding machine	635,616	Oct. 24	3062	703, 704	89	651
Trewent, Francis J., and W. E. Proctor, London, England, assignors to H. See, New York, N. Y. Plug-cock for ash-ejectors	622,090	Mar. 28	2877	648	86	2100
Triance, John C., Rochester, Pa. Paste-mold glass-blowing machine	636,590	Nov. 7	635	140	89	1051
Tribble, J. L., *et al.* (See Ewbank, Ernest L., assignor.)						
Tribble, Thomas A., Bloomington, Ill. Indicator	634,485	Oct. 10	970	232	89	211
Tribble, William, assignor of one-half to S. H. Wyss, Alton, Ill. Cigar-box	622,932	Apr. 11	1350	310	87	276
Tribble, William, assignor of one-half to S. H. Wyss, Alton, Ill. Coin-controlled vending-machine	621,182	Mar. 14	1206	263, 264	86	1748
Tribe, James, Racine, Wis. Centrifugal separator	625,369	May 23	2585	588	87	1264
Trieschmann, Ernest H., Milwaukee, Wis. Hand-shears	639,468	Dec. 19	2376	547	89	2367
Trieschmann, Ernest H., Milwaukee, Wis. Hand-shears	639,469	Dec. 19	2377	548	89	2367
Triest, Hermann, New York, N. Y. Reversible handle-mounting for brushes	624,708	May 9	1392	311	87	993
Trillat, Jean J. A., Paris, assignor to La Société Chimique des Usines du Rhône, Anciennement Gilliard, P. Monnet et Cartier, Lyons, France. Formaldehyde solution	628,502	July 11	1026	------	88	218
Trinkler, Wilhelm F. C., Hamburg, Germany. Folding wall-table	617,429	Jan. 10	1100	250	86	233
Tripp Bros., *et al.* (See Arnold, Albert J., assignor.)						
Tripp, Herman, and G. E. Stephenson, Chicago, Ill. Changeable electric-light sign	637,905	Nov. 28	3581	750	89	1734
Tripp, Thomas, Avon, Mass. Apparatus for flushing water-closets	638,945	Dec. 12	1402	320, 321	89	2160
Tripp, Thomas S., Walton, N. Y. Window	620,515	Feb. 28	3097	709	86	1466
Tripp, Willard I., Deming, N. Mex. Ter. Gate-latch	635,363	Oct. 24	2562	596	89	555
Tritz, Joseph, Burlington, Iowa. Measuring and display cabinet	624,406	May 2	841	190	87	862
Triumph Cycle Company. (See Hathaway, Charles W., assignor.)						
Trix, John, Detroit, Mich. Grease-cup	632,480	Sept. 5	492	112	88	1804
Trix, John, Dertoit, Mich. Injector	632,481	Sept. 5	492	112, 113	88	1804
Trocham, Eugène, Paris, France. Cartridge-belt for use in automatic or machine guns	628,871	July 11	1731	404	88	357
Troeger, Carl, Nuremberg, Germany, assignor to Translucent Window Sign Company, New York, N. Y. Transfer-picture	617,868	Jan. 17	1935	433	86	417
Troeger, Henry D. (See Baumann, George, assignor.)						
Trojan Button Fastener Company. (See Ham, Albert W., assignor.)						
Trommlitz, George W., assignor to Trommlitz Vote Register Company, Denver, Colo. Voting-machine and booth	638,683	Dec. 5	945	211, 212	89	2052
Trommlitz Vote Register Company. (See Trommlitz, George W., assignor.)						
Trossy, Clementine, femme Granetias, Clermont-Ferrand, France. Shotgun-converter	626,351	June 6	250	58	87	1662

Alphabetical list of patentees—Continued.

Name, residence, and invention.	No.	Date.	Monthly volume. Spec.	Monthly volume. Dr'g.	Official Gazette. Vol.	Official Gazette. Page.
Trost, Henry, Cohoes, N. Y. Convertible open and closed car	632,600	Sept. 5	709	164	88	1847
Trotman, Walter K., London, England. Manufacture of paper	629,937	Aug. 1	381	83	88	798
Trotz, Johan O. E., Worcester, Mass. Apparatus for making compound metal ingots	639,005	Dec. 12	1522	348	89	2183
Troubetzkoy, Luigi, Milan, Italy. Regulator for power or propeller shafts	639,470	Dec. 19	2378	548	89	2367
Trounstine, John. (See Frank, David, assignor.)						
Troup, Charles, Watseka, Ill. Railway-switch	633,055	Sept. 12	1576	367	88	2032
Troup, Edward L., Deshler, Ohio. Plow-point	632,857	Sept. 12	1228	281	88	1967
Troutman, George, Centralia, and J. D. Yetter, Wadesville, Pa. Safety device for use in sinking mine-shafts	620,995	Mar. 14	866	188	86	1682
Trowbridge, David F., Tyrone, Iowa. Fly-catcher	629,279	July 18	2455	570	88	512
Trownsell, William C., and J. R. Trego, San Francisco, Cal. Attachment for linotype-machines	620,381	Feb. 28	2887	661, 662	86	1427
Troyer, Edward. (See Rauhoff, John M., assignor.)						
True, Thomas B., Rives Junction, Mich. Adjustable wagon-rack	629,021	July 18	2005	467	88	428
Trueblood, Samuel L. (See Kinney and Trueblood.)						
Truesdell, Clarence H. (See Victory, Patrick E., assignor.)						
Trufant, Walter E. (See Brigham, Albert H., assignor.)						
Trufant, Walter E., Whitman, Mass. Last	633,741	Sept. 26	2907	675	88	2318
Truitt, Clarence, St. Louis, Mo. Electric switch	625,219	May 16	2296	523	87	1183
Truitt, Harry L., *et al.* (See Linn, Robert G., assignor.)						
Truitt, Leban A., *et al.* (See Linn, Robert G., assignor.)						
Truitt, Samuel P., Novinger, Mo. Fruit-picker	621,509	Mar. 21	1797	400	86	1873
Trumbo, Morgan S., Gahanna, Ohio. Wall-tie	625,071	May 16	2044	459	87	1136
Trumbo, Morgan S., Gahanna, Ohio. Food-cooking apparatus	625,072	May 16	2045	460	87	1136
Trumbull, Rollin H., Chicago, Ill. Magazine-camera	638,300	Dec. 5	215	45, 46	89	1907
Trunkell, Arthur. (See Kissinger and Trunkell.)						
Trunnel, James. (See Rowe and Trunnel.)						
Truscott, Alvidore S., Bozeman, Mont. Alarm mechanism	623,747	Apr. 25	2821	646	87	598
Truscott, Edward E., St. Joseph, Mich. Explosive-engine	617,372	Jan. 10	991	227, 228	86	212
Truscott, Edward E., St. Joseph, Mich. Adjustable propeller	617,373	Jan. 10	993	228	86	212
Früstedt, Otto A. P., Stockholm, Sweden. Apparatus for separating magnetic materials	619,636	Feb. 14	1535	349, 350	86	1127
Truyter, Edward C., assignor, by mesne assignments, to Nordlinger-Charlton Fireworks Company, New York, N. Y. Mandrel for tube-making machines	634,191	Oct. 3	381	97	89	79
Tschantz, William H., Orrville, Ohio. Mine-gate	639,629	Dec. 19	2654	609	89	2424
Tscharner, W. B. (See Moss, Thomas F., assignor.)						
Tschenda, Roman, West Hoboken, N. J. Combined bowling-alley and table	638,486	Dec. 5	576	119	89	1976
Tschernoff, Dimitris, St. Petersburg, Russia. Gas blast-furnace	637,432	Nov. 21	2334	504	89	1428
Tschieret, Joseph T., Levallois-Perret, France. Electric-arc lamp	620,996	Mar. 14	867	189	86	1682
Tschirner, Albert P., St. Louis, Mo. Dental cement	636,367	Nov. 7	236	------	89	968
Tubbs, Martin W., Portville, N. Y. Revolving blackboard	625,615	May 23	2999	684	87	1345
Tubbs, Nelson J., Knoxville, Tenn., assignor of one-half to T. J. Landrum, Louisville, Ky. Churn	629,479	July 25	2849	662	88	610
Tucek, Frank, executor. (See Tucek, Marie.)						
Tucek, Marie, New York, N. Y. Chart for drafting garment-patterns	622,092	Mar. 28	2881	649, 650	86	2101
Tucek, Marie, deceased; F. Tucek, New York, N. Y., executor. Corset	628,372	July 4	792	184	88	152
Tucker, Alfred, Hassan, Minn. Clock-winding indicator	639,630	Dec. 19	2656	609	89	2424
Tucker, Bevis, Chelsea, Mass. Vehicle-propelling mechanism	619,637	Feb. 14	1536	350	86	1127
Tucker, Charles A., assignor to R. B. Tucker, New York, N. Y. Retainer for scarfs or neckties	625,817	May 30	3396	770	87	1440
Tucker File Company. (See Bein, Emil J., assignor.)						
Tucker, George W., Gridley, Kans. Cultivator attachment	635,617	Oct. 24	3070	704	89	654
Tucker, John R. (See Himrod, Tucker, and Hinckley.)						
Tucker, Joseph, Julian, Nebr. Sulky attachment for harrows	624,582	May 9	1173	263, 264	87	950
Tucker, Marwood, Johannesburg, South African Republic. Device for igniting bicycle, carriage, or other lamps	624,267	May 2	593	127, 128	87	811
Tucker, Rose B. (See Tucker, Charles A., assignor.)						
Tucker, Wallace E., *et al.* (See Freddy, Michael P., assignor.)						
Tucker, William P., New York, N. Y. Car-fender	630,757	Aug. 8	1930	436	88	1111
Tucker, William W. (See Biggs, Theodore J., assignor.)						
Tudor, Charles. (See Hale and Tudor.)						
Tudor, Frederic, Boston, Mass. Regulating apparatus for steam-heaters	618,921	Feb. 7	192	42	86	842
Tudor, Frederic, Boston, Mass. Clean-out fitting for drain-pipes, traps, &c.	634,250	Oct. 3	525	133	89	106
Tufts, Leonard, Medford, and H. A. Hopkins, Cambridge, Mass., assignors to American Soda Fountain Company, Trenton, N. J. Carbonating apparatus	639,631	Dec. 19	2657	610	89	2425
Tufts, Leonard, Medford, and H. A. Hopkins, Cambridge, Mass., assignors to American Soda Fountain Company, Trenton, N. J. Carbonating apparatus	639,632	Dec. 19	2660	611	89	2425
Tufts, Leonard, Medford, and H. A. Hopkins, Cambridge, Mass., assignors to American Soda Fountain Company, Trenton, N. J. Carbonating apparatus	639,633	Dec. 19	2662	611	89	2426
Tulloch, John A., assignor of one-half to J. G. Harris, Duluth, Minn. Stone-cutter's maul	623,192	Apr. 18	1852	424	87	388
Tulloh, Franklin A., and W. H. Archer, Lockport, N. Y. Filtering-cistern	627,157	June 20	1744	383	87	1990
Tully, Alice M., New York, N. Y. Skirt and belt supporter	634,380	Oct. 3	779	186	89	155
Tumalty, Joseph F. (See Padfield and Tumalty.)						
Tunnicliff, John C., assignor to D. M. Sechler Carriage Company, Moline, Ill. Harrow-tooth fastening	635,111	Oct. 17	2104	493	89	451
Tunstill, William, New York, N. Y. Rotary ice-breaker	626,042	May 30	3866	876	87	1528
Tunzelmann, George W. de, London, England. Apparatus for holding carbons for electric welding	626,352	June 6	251	59	87	1662
Tuohy, William H., Eagle, Wis. Fish-hook guard	636,591	Nov. 7	638	140	89	1051
Turc, Henri L. J. C., Castans par Cannes, France. Apparatus for launching or discharging torpedoes	626,945	June 13	1367	300, 301	87	1897
Turck, Joseph A., assignor of three-fifths to H. Thurston and A. Caldwell, Providence, R. I. Adding-machine and register	622,091	Mar. 28	2879	648, 649	86	2100
Turck, Joseph A., Providence, R. I., assignor to Mechanical Accountant Company, Saco, Me. Adding-machine	631,345	Aug. 22	3003	681	88	1365
Türk, Hans, Berlin, Germany. Type-writing machine	621,389	Mar. 21	1577	349, 350	86	1832
Turley, Charles H. (See Pierce, William S., assignor.)						
Turman, Byron I., and T. J. Hampton, Los Angeles, Cal. Ore-crusher	629,098	July 18	2153	500	88	457
Turnbull, David H., Florence, Ala. Running-gear for wagons	631,346	Aug. 22	3004	682	88	1366
Turnbull, Fred, Spennymoor, England. Rotary tippler	617,065	Jan. 3	398	97, 98	86	77
Turnbull, George A., Chicago, Ill. Metal lath or sheathing	628,565	July 11	1161	272	88	244

Alphabetical list of patentees—Continued.

Name, residence, and invention.	No.	Date.	Monthly volume.		Official Gazette.	
			Spec.	Drg.	Vol.	Page.
Turnbull, John, Sydney, New South Wales. Bottling-rack	627,158	June 20	1745	383	87	1990
Turnbull, Walter J., assignor of one-half to W. S. E. Sevey, New Orleans, La. Firearm	630,758	Aug. 8	1931	436	88	1112
Turnbull, William, Wellington, New Zealand. Apparatus for drawing off fixed quantities of liquids	621,388	Mar. 21	1575	349	86	1832
Turnbull, William, Wellington, New Zealand. Apparatus for drawing off fixed quantities of liquids	639,316	Dec. 19	2073	476	89	2307
Turnbull, William, Dalkeith, Scotland. Sliding-sash window	630,137	Aug. 1	768	166	88	875
Turner, August D., and F. C. von Heydebrand und der Lasa, New York, N. Y., assignors to Automatic Trip Railroad Gate Company, Elizabeth, N. J. Gate for railway-crossings	636,220	Oct. 31	4245	975 976	89	897
Turner, Claude A. P., assignor to Gillette-Herzog Manufacturing Company, Minneapolis, Minn. Steel ore-bin	636,869	Nov. 14	1217	263	89	1194
Turner, Donald L. (See Moorhouse and Turner.)						
Turner, E. J., *et al.* (See Lynch, Michael A., assignor.)						
Turner, Edward A., Chicago, Ill. Device for golf-holes	621,390	Mar. 21	1579	350	86	1833
Turner, Ephraim M. (See Kellner, Charles J. E., assignor.)						
Turner, Ephraim M., Fort Worth, Tex. Stirrup	634,858	Oct. 10	1629	381	89	339
Turner, Ephraim M., assignor of one-half to C. J. E. Kellner, Fort Worth, Tex. Convertible case	630,427	Aug. 8	1358	303	88	1001
Turner, George E., Marion, Ohio. Steam dredge or shovel	627,662	June 27	2715	594 595	87	2199
Turner, George W., San Francisco, Cal. Clothes-hook	633,742	Sept. 26	2909	675	88	2318
Turner, Harrison M., Birmingham, Ala. Trunk	622,734	Apr. 11	991	230	87	208
Turner, Henry R., Helena, Ark. Picture-frame	636,592	Nov. 7	639	141	89	1051
Turner, Joseph P., assignor of three-fourths to G. W. Ellington, J. S. Wimbish, and J. W. Mobley, Reidsville, N. C. Claw-bar	632,290	Sept. 5	159	36	88	1739
Turner, Joseph W., Schenectady, N. Y. Padlock	621,391	Mar. 21	1580	350	86	1833
Turner, Joseph W., New Orleans, La. Junction-box for manholes	634,381	Oct. 3	780	186 187	89	155
Turner, Maria. (See Reichert, John P., assignor.)						
Turner, Robert, Des Moines, Iowa. Ribbon movement for type-writing machines	632,767	Sept. 12	1067	247	88	1933
Turner, Robert, Des Moines, Iowa. Type-writing machine	634,433	Oct. 3	873	211	89	176
Turner, Samuel J., Chicago, Ill. Corner-fastening for bedsteads	631,390	Aug. 22	3092	700	88	1383
Turner, Thomas G., New York, N. Y. Carbid-cartridge	637,681	Nov. 21	3165	656	89	1630
Turner, Thomas G., New York, N. Y. Making acetylene gas	637,682	Nov. 21	3166	656	89	1630
Turner, Thomas G., New York, N. Y. Gas apparatus	637,683	Nov. 21	3166	657	89	1630
Turner, William, Wenatchee, Wash. Current-motor	625,220	May 16	2297	523 524	87	1184
Turner, William, Wenatchee, Wash. Thermometer attachment for refrigerating-cars	627,025	June 13	1509	329	87	1925
Turner, William, Wenatchee, Wash. Current-motor	635,208	Oct. 17	2275	530	89	483
Turner, William B., Ross, Tex. Railway-bicycle	638,822	Dec. 12	1188	266	89	2118
Turney, Edward, Portland, Oreg. Cable-reel	629,115	July 18	2185	506	88	464
Turney, James A. (See Secor, Horace J., assignor.)						
Turnure, Mary E. (See Baldwin and Turnure.)						
Turowski, Bronistaw, and I. Zarski, Warsaw, Russia. Car-wheel	637,684	Nov. 21	3170	657	89	1631
Turpin, Louis W., Scott's Station, Ala. Spur	635,948	Oct. 31	3704	856	89	789
Turton, Christopher J., *et al.* (See Treleaven, John, assignor.)						
Turton, William H., London, England. Boring-bar	619,450	Feb. 14	1210	275	86	1064
Tustin, Edward B. (See Oswald, Richard W., assignor.)						
Tuthill, George H., New York, N. Y. Suspender attachment	624,407	May 2	843	190	87	062
Tuttle, George H., Cambridge, Mass. Syringe attachment	638,367	Dec. 5	353	74	89	1933
Tuttle, Hartson, Quartz, Cal. Riffle-plate for ore stamp-batteries	632,954	Sept. 12	1409	325	88	1999
Tuttle, Horatio J., Govanstown, assignor of one-half to L. C. Tuttle, Baltimore, Md. Washboard	632,210	Aug. 29	4604	1037	88	1688
Tuttle, Hosmer, Cedar Rapids, Iowa, assignor of one-half to S. Tuttle, Salt Lake City, Utah. Bicycle	631,973	Aug. 29	4146	933	88	1599
Tuttle, Hosmer, Cedar Rapids, Iowa, assignor of one-half to S. Tuttle, Salt Lake City, Utah. Bicycle	631,974	Aug. 29	4148	933 934	88	1600
Tuttle, Lewis C. (See Tuttle, Horatio J., assignor.)						
Tuttle, Shelley. (See Tuttle, Hosmer, assignor.)						
Tuttle, Silas, New York, N. Y. Hot-air register or ventilator	618,589	Jan. 31	3300	733	86	705
Tuttle, Silas, New York, N. Y. Air register or ventilator	618,590	Jan. 31	3302	734	86	705
Tuttle, Thomas B., Carthage, Mo. Card-delivering machine	630,138	Aug. 1	770	166	88	875
Tuttle, W. H., *et al.* (See Edgar, Lucien B., assignor.)						
Tuttle, Willard S., New York, N. Y. Hot-air register and ventilator	623,343	Apr. 18	2123	487 488	87	444
Tveit, Charles K., Moorhead, Minn. Draft-equalizer	617,374	Jan. 10	994	228	86	213
Tveit, Jacob, Stoddard, and O. Oversen, La Crosse, Wis. Tool-handle	617,206	Jan. 3	658	153	86	128
Tweddle, H., *et al.* (See Cudner, Gustavis L., assignor.)						
Tweedale, William, and W. L. Harvey, Chicago, Ill. Apparatus for drying grain	638,429	Dec. 5	467	95	89	1955
Twer, Carl, Eschweiler, Germany. Pipe-welding apparatus	635,822	Oct. 31	3465	796	89	744
Twichell, Walter E., St. Helena, Cal. Motor-carriage driving mechanism	627,282	June 20	1958	431	87	2033
Twining, William S., Philadelphia, Pa., assignor, by mesne assignments, to American Car Sprinkler Company, Worcester, Mass. Street-sprinkler. (Reissue)	11,736	Apr. 25	3261	750	87	682
Twisted Wire Box Strap Company. (See Gardner, Augustus H., assignor.)						
Twitchell, Charles R. (See Bowen and Twitchell.)						
Twitchell, Ernst, Cincinnati, Ohio. Fatty aromatic sulfo compound and making same	628,503	July 11	1027	------	88	218
Twitchell, James E., Detroit, Mich. Shelf-bracket	622,933	Apr. 11	1351	310	87	276
Twitchell, Selden, Philadelphia, Pa. Bottle-stopper	637,977	Nov. 28	3706	780	89	1758
Twomley, Herbert E., assignor of one-half to C. H. Gurney, Hillsdale, Mich. Checking or unchecking attachment	620,382	Feb. 28	2890	662	86	1427
Tyberg, Oluf. (See Hess and Tyberg.)						
Tyden, Emil, Chicago, Ill., assignor to International Seal and Lock Company, Hastings, Mich. Seal	618,146	Jan. 24	2473	550	86	534
Tyden, Emil, Chicago, Ill., assignor to International Seal and Lock Company, Hastings, Mich. Self-locking seal	618,147	Jan. 24	2476	550	86	535
Tyden, Emil, Chicago, Ill., assignor to International Seal and Lock Company, Hastings, Mich. Self-locking seal	629,938	Aug. 1	382	83	88	798
Tyden, Emil, Chicago, Ill., assignor to International Seal and Lock Company, Hastings, Mich. Self-locking seal	629,939	Aug. 1	385	83	88	799
Tyden, Emil, assignor to R. B. Messer, Hastings, Mich. Feeding mechanism for die-presses	633,170	Sept. 19	1829	430 431	88	2094
Tygard Company *et al.* (See Tygard, James W., assignor.)						
Tygard, Frederick C. (See Tygard, James W. and P. L., assignors.)						
Tygard, James W., assignor to I. J. Wilson and Tygard Company, Pittsburg, Pa. Variable-diameter wheel	618,966	Feb. 7	307	66, 67	86	870

Alphabetical list of patentees—Continued.

Name, residence, and invention.	No.	Date.	Monthly volume. Spec.	Monthly volume. Dr'g.	Official Gazette. Vol.	Official Gazette. Page.
Tygard, James W. and P. L., assignors of one-third to F. C. Tygard, Pittsburg, Pa. Rotary internal-combustion engine	619,004	Feb. 7	402	84	86	888
Tygard, Perry L. (See Tygard, James W. and P. L.)						
Tyler, Abel D., Jr., Brockton, Mass. Shoe-treeing machine	622,643	Apr. 4	834	193	87	158
Tyler & Co., Hayward. (See Davies, James R., assignor.)						
Tyler Hinged Last Company. (See Harper, John and A. T., assignors.)						
Tyler Hinged Last Company. (See Shannon, Charles H., assignor.)						
Tyler, Hiram. (See Ohmer and Tyler.)						
Tyler, John E., Roxobel, N. C. Motor apparatus	631,238	Aug. 15	2790	633	88	1306
Tyler, Melvin H., Muncie, Ind. Wagon-jack	623,050	Apr. 11	1551	358	87	316
Tyler, Walter L., *et al.* (See Lindstrom, Nils O., assignor.)						
Tyler, William W., Dayton, Ohio. Turbine water-wheel	634,967	Oct. 17	1820	431	89	394
Tymeson, Eugene, and R. Borland, assignors to Alexander Smith & Sons Carpet Company, Yonkers, N. Y. Woven fabric and producing same	626,878	June 13	1255	275, 276	87	1875
Tymeson, Eugene, and R. Borland, assignors to Alexander Smith & Sons Carpet Company, Yonkers, N. Y. Spooled yarn, &c	626,879	June 13	1259	276	87	1876
Tynan, Joseph E., Paterson, N. J. Equalizing driving device for bobbins	619,806	Feb. 21	1875	428	86	1219
Tynan, Joseph E., Paterson, N. J. Kink-preventer and signal for twisting-machines	619,807	Feb. 21	1876	428	86	1219
Tynan, Joseph E., Paterson, N. J. Feeding mechanism for twisting-machines	629,940	Aug. 1	388	83	88	799
Tytler, Harriet C., Montreal, Canada. Undervest	635,883	Oct. 31	3580	823	89	765
Tzschucke, Hermann, Dresden-Strehlen, Germany, assignor to J. Heymanson, Chicago, Ill. Translucent plastic compound	627,367	June 20	2148	------	87	2072
Ubsdell, John A., *et al.* (See Fernandez, William T., assignor.)						
Uebel, George F., Harlan county, Nebr. Running-gear	627,833	June 27	3011	658	87	2258
Uebelacker, Charles F., Kingston, assignor to Peckham Motor Truck and Wheel Company, New York, N. Y. Maximum-traction truck	632,432	Sept. 5	394	90	88	1785
Uebelacker, Charles F., assignor to Peckham Motor Truck and Wheel Company, Kingston, N. Y. Car truck	635,986	Oct. 31	3789	872, 873	89	807
Ueckerman, Herman R., Emsworth, Pa. Combination household tool	618,258	Jan. 24	2680	593	86	571
Uehling, Edward A. (See Steinbart and Uehling.)						
Uehling, Edward A., Newark, N. J. Grade-indicating and profile apparatus	624,268	May 2	594	128, 129	87	812
Uehling, Edward A., Newark, N. J. Apparatus for treating slag	625,992	May 30	3724	844, 845	87	1503
Uehling, Edward A., Newark, N. J. Apparatus for casting metal	632,031	Aug. 29	4260	958	88	1621
Uehling, Edward A., Newark, N. J., and J. W. Miller, Chicago, Ill. Casting and conveying apparatus	629,480	July 25	2851	662, 663, 664	88	611
Uehling, Edward A., Newark, and A. Steinbart, Carlstadt, N. J. Pneumatic pyrometer	639,317	Dec. 19	2075	476, 477	89	2307
Uehling, Theodore A., Cleveland, Ohio. Process of and apparatus for reducing and oxidizing salts	620,683	Mar. 7	258	53	86	1552
Uhl, Charles M., *et al.* (See Katzenberger, Oscar, assignor.)						
Uhl, Herbert, *et al.* (See Katzenberger, Oscar, assignor.)						
Uhlenbrock, Jan C., Neuss, Germany. Process of and apparatus for making artificial butter	625,478	May 23	2766	630	87	1298
Uhlig, Marcus M., Erdmannsdorf, Germany. Apparatus for applying wadding to paper	625,430	May 23	2691	613	87	1284
Uhlig, Richard W., assignor to W. B. Baldwin, New York, N. Y. Type-writing machine	625,616	May 23	3000	684	87	1345
Uhlig, Richard W., assignor to W. B. Baldwin, New York, N. Y. Type-writing machine	625,617	May 23	3003	684, 685, 686	87	1346
Uhlig, Richard W., assignor to W. B. Baldwin, New York, N. Y. Type-writing machine	625,729	May 23	3195	726, 727, 728	87	1383
Uhlin, Ernest. (See Dahlberg, Clicquennoi, and Uhlin.)						
Uhlinger, William W., New York, N. Y. Harness-evening mechanism for looms	629,220	July 18	2359	547, 548	88	495
Uhlinger, William W., Paterson, N. J. Glass-beam bracket for ribbon-looms	629,831	Aug. 1	143	33	88	749
Uhlmann, Richard M., Philadelphia, Pa., assignor, by mesne assignments, to Eastern Paper Bag Company, Hartford, Conn. Paper-bag machine	634,099	Oct. 3	204	50, 51, 52	89	45
Uhr, Gustaf, Stockholm, Sweden. Housing for rolling-mills	632,002	Aug. 29	4209	947	88	1612
Uhrig, Fred P. (See Ohaven and Uhrig.)						
Ulbrich, Richard C., assignor to W. Firth, Boston, Mass. Humidifier	629,181	July 18	2300	534	88	484
Ulery, Frank S., Garrison, Iowa. Machine for gathering silk from cut corn	637,537	Nov. 21	2521	546, 547	89	1463
Ullathorne, Granville S., and H. P. Vacher, London, England. Rock-drill	638,856	Dec. 12	1245	280	89	2128
Ullmann, Emanuel S., trustee. (See Spier, Max, assignor.)						
Ullmann, Emanuel S., assignor to E. S. Ullmann, trustee, New York, N. Y. Lighting device for gas-burners	620,516	Feb. 28	3099	709	86	1467
Ullmann, Fritz, Fuerth, assignor to A. Landsberger, Berlin, Germany. Purifying acetylene gas	625,479	May 23	2767	------	87	1299
Ullrey, Arthur O., Niles, Mich. Spring-catch for pole-tips	619,638	Feb. 14	1540	350	86	1128
Ulrey, William A., Pipesville, Ohio. Sign-holder	619,639	Feb. 14	1541	351	86	1128
Ulrich, John C., Denver, Colo. Automatic water-meter	638,657	Dec. 5	876	191, 192	89	2035
Ulrich, Moritz, Elberfeld, Germany, assignor to Farbenfabriken of Elberfeld Company, of New York. Yellow dye and making same	619,518	Feb. 14	1324	------	86	1129
Ulrichs, Otto, Chicago, Ill., assignor, by mesne assignments, to T. N. Jamieson, trustee. Refrigerating device	619,808	Feb. 21	1878	428	86	1219
Uncle Sam Novelty Company. (See Merrill, Nathaniel C., assignor.)						
Underwood, Charles H., assignor of one-half to G. J. Reim, St. Paul, Minn. Corn cutter, shocker, and binder	626,512	June 6	542	125	87	1718
Underwood, Chester J., assignor of one-half to G. Sheppard, Elgin, Ill. Dental appliance	626,737	June 13	948	215	87	1816
Underwood, Chester J., assignor of one-half to G. Sheppard, Elgin, Ill. Tooth-crown	626,738	June 13	949	216	87	1816
Underwood, Herbert G., assignor of one-half to W. P. Hatch, New York, N. Y. Steering-gear for vehicles	634,514	Oct. 10	1021	243, 244	89	221
Underwood, James A., Condray, Mo. Harrow and cultivator	629,629	July 25	3124	727	88	664
Underwood, Jerry M., and O. N. Sprague, Pawnee, Ill. Corn-planter	619,640	Feb. 14	1542	351	86	1128
Underwood, John. (See Paulson, Peter W., assignor.)						
Underwood, John T. (See Converse and Underwood.)						
Underwood, John T. (See Wagner, Herman L. and F. X., assignors.)						
Underwood, Joseph B. (See Guthrie and Underwood.)						
Unger, John S., Homestead, assignor to Carnegie Steel Company, Limited, Pittsburg, Pa. Protecting device for furnaces	627,159	June 20	1746	383	87	1991

Alphabetical list of patentees—Continued.

Name, residence, and invention.	No.	Date.	Monthly volume.		Official Gazette.	
			Spec.	Dr'g.	Vol.	Page.
Unger, John S., Homestead, assignor to Carnegie Steel Company, Limited, Pittsburg, Pa. Carburizing armor-plates	634,251	Oct. 3	526	133	89	106
Unger, Samuel, and M. Leininger, Pottsville, Pa. Undergarment	619,102	Feb. 7	574	123	86	923
Union Bag and Paper Company. (See Crist and Schenck, assignors.)						
Union Bag and Paper Company. (See Crist, Schenck, and Mudgett, assignors.)						
Union Bag and Paper Company. (See Doering, Justus, assignor.)						
Union Bag and Paper Company. (See Dulin, Charles E., assignor.)						
Union Bag and Paper Company. (See Schenck, Murray, assignor.)						
Union Boiler Tube Cleaner Company. (See Forsyth and Bell, assignors.)						
Union Boiler Tube Cleaner Company. (See Halsey, William S., assignor.)						
Union Burner Company, *et al.* (See McCaffrey, Peter F., assignor.)						
Union Carpet Lining Company. (See Maynadier, James E., assignor.)						
Union Cash Register Manufacturing Company. (See Fuller, Frederick L., assignor.)						
Union Electric Company. (See Smith, Charles T., assignor.)						
Union Manufacturing Company. (See Carleton, John W., assignor.)						
Union Metallic Cartridge Company. (See Hurd, Hobert J., assignor.)						
Union Metallic Cartridge Company. (See Richards, Charles R., assignor.)						
Union Metallic Cartridge Company. (See Rylands, Thomas H., assignor.)						
Union Raveler Company. (See Brown, Eugene H., assignor.)						
Union Scale and Manufacturing Company. (See Hanak, Edward, assignor.)						
Union Special Sewing Machine Company. (See Onderdonk, Lansing, assignor.)						
Union Staple Seam Re-Enforcing Company. (See Sebastian, Charles, assignor.)						
Union Staple Seam Re-Enforcing Company. (See Thomas, Albert D., assignor.)						
Union Steam Pump Company. (See Moore, Ila N., assignor.)						
Union Switch and Signal Company. (See Buchanan, John P., assignor.)						
Union Switch and Signal Company. (See Coleman, John P., assignor.)						
Union Switch and Signal Company. (See Jones, Joshua W., assignor.)						
Union Switch and Signal Company. (See Patenall, Thomas H., assignor.)						
Union Switch and Signal Company. (See Schreuder, Jens G., assignor.)						
Union Switch and Signal Company. (See Spicer, Vibe K., assignor.)						
Union Typewriter Company. (See Barron, Walter J., assignor.)						
United Alkali Company. (See Imhoff, Paul, assignor.)						
United Blue Flame Stove Company. (See Jeavons, William R., assignor.)						
United Blue Flame Stove Company. (See Lannert and Jeavons, assignors.)						
United Coke and Gas Company. (See Hilgenstock, Gustav, assignor.)						
United Coke and Gas Company. (See Schniewind, Frederic W. C., assignor.)						
United Electric Improvement Company. (See Smith, Walter F., assignor.)						
United States Acetylene Liquefaction Company. (See Dickerson and Suckert, assignors.)						
United States Aerating Fountain Company. (See Cedarstrom, John, assignor.)						
United States Automatic Gas Lighting Company. (See Shaw, Ai B., assignor.)						
United States Automatic Telephone Company. (See Ries, Elias E., assignor.)						
United States Fertilizer Company. (See Giffen, Robert K., assignor.)						
United States Glass Company. (See Ripley, Daniel C., assignor.)						
United States Gramophone Company. (See Berliner, Emile, assignor.)						
United States Manufacturing Company. (See Bean, James E., assignor.)						
United States Mile Board Advertising Company. (See Gavett, William A., assignor.)						
United States Rubber Company. (See Heaton, Ryan, assignor.)						
United States Safety Gas Cock Company. (See Garvey, Owen F., assignor.)						
United States Sand Filtration Company. (See Davis, Lewis K., assignor.)						
United States Standard Machine Company. (See Schneider, Anthony, assignor.)						
United States Voting Machine Company. (See Cooper, Henry C. H., assignor.) (Reissue.)						
United States Voting Machine Company. (See Wilson, George, assignor.)						
Unitype Company. (See Cox, Paul F., assignor.)						
Universal Accountant Machine Company. (See Hiett, De Kerniea J. T., assignor.)						
Universal Car Bearing Company. (See Baker, Jackson R., assignor.)						
Universal Electrical Advertising Syndicate. (See Bell, William T., assignor.)						
Universal Fire Alarm Company. (See Rowand, Lewis G., assignor.)						
Universal Food and Liquid Improving Company. (See Dolley, Rehfuss, and Hunt, assignors.)						
Universal Fuel Company. (See Hemingway, Joseph, assignor.)						
Universal Lock Company. (See Babcock, Ira J., assignor.)						
Universal Loom Company. (See Emery, Abram D., assignor.)						
Universal Loom Company. (See Harriman, Henry I., assignor.)						
Universal Safety Tread Company. (See Huestis, Frederick W., assignor.)						
Universal Sharpening Machine Company. (See Worden, Charles A., assignor.)						
Universal Stripping Machine Company. (See Allison, Alphonso R., assignor.)						
Universal Stripping Machine Company. (See Allison and Buek, assignors.)						
Universal Stripping Machine Company. (See Buek, Charles E., assignor.)						
Universal Stripping Machine Company. (See Coffee, Russell A., assignor.)						
Universal Talking Machine Company. (See Valiquet, Louis P., assignor.)						
Unkrich, Frederick, assignor of one-half to F. Flickinger, Galion, Ohio. Spoke-finishing machine	624,882	May 9	1716	388	87	1057
Unser, John, assignor to J. M. Unser, Carthage, N. Y. Box-fastener	619,809	Feb. 21	1879	428	86	1220
Unser, John, assignor to J. M. Unser, Carthage, N. Y. Pasteboard box	624,408	May 2	844	190	87	863
Unser, Josephine M. (See Unser, John, assignor.)						
Unverzagt, Charles H. (See Hooper, William, assignor.)						
Updegraff, George C., and C. C. Stewart, Hutchinson, Kans. Toaster	638,946	Dec. 12	1404	321	89	2160
Upham, James B., Malden, Mass. Steam-washer	621,392	Mar. 21	1582	350	86	1834
Upham, Richard D., New York, N. Y. Treating bagging for asphalt	619,810	Feb. 21	1880	429	86	1220
Upson, Edwin L., assignor to Pratt & Cady Company, Hartford, Conn. Gate-valve	623,265	Apr. 18	1985	455	87	416
Upson, Wilbur S., Mansfield, Ohio. Saddle for bicycles	620,620	Mar. 7	130	26	86	1527
Upton, Willard, assignor of one-half to J. H. Doty, Rochester, N. Y. Egg-tester	630,820	Aug. 8	2046	461	88	1137
Urban, Fredrick H., Brazil, Ind. Fireproof chimney	631,139	Aug. 15	2030	595	88	1273
Urban, Johann. (See Fremery and Urban.)						
Urlin, George C., *et al.* (See Midgley, Thomas, assignor.)						
Urquhart, Edmund, *et al.* (See Mallett, Charles E., assignor.) (Reissue.)						
Urtel, August, Buffalo, N. Y. Dress or skirt holder	622,027	Mar. 28	2778	626	86	2080
Utley, Hiram S., Austin, assignor, by mesne assignments, to National Marble Company, Chicago, Ill. Compound for making artificial stone	620,383	Feb. 28	2891	------	86	1427
Utman, Commodore, North Adams, Mass. Overhead hose-supporter	635,364	Oct. 24	2562	596	89	555
Utt, Albert S., Chicago, Ill. Bolt or pipe extractor	620,062	Feb. 21	2322	527	86	1303
V. L. Ney Company. (See Ney, Jacob, assignor.)						
Vacher, Ernest W., Roseland, La., assignor of one-half to H. Fisher, Albany, Ohio. Funnel	633,628	Sept. 26	2711	631	88	2278

Alphabetical list of patentees—Continued.

Name, residence, and invention.	No.	Date.	Monthly volume. Spec.	Monthly volume. Dr'g.	Official Gazette. Vol.	Official Gazette. Page.
Vacher, Herbert P. (See Ullathorne and Vacher.)						
Vacheron, Louis E. (See Ball and Vacheron.)						
Vader, William W., and A. C. Cross, Minneapolis, Minn. Hitching device	623,226	Apr. 18	1905	437	87	399
Vail, Charles E., Salt Lake City, Utah. Bicycle saddle-carriage	627,548	June 27	2493	548	87	2156
Vail, Edward M., Kewanee, and G. Potter, Osceola, Ill. Stamp-canceling machine	625,861	May 30	3473	788 789	87	1454
Vail, Joseph, assignor of one-half to C. E. Swaim, Ossian, Ind. Casket-lowering device	626,640	June 6	756	173	87	1760
Vajna, Wilhelm, Buda-Pesth, Austria-Hungary. Dental nerve-broach	621,873	Mar. 28	2482	554	86	2024
Valade, Elie, Jacksonville, Fla. Changeable-speed gearing for bicycles	635,823	Oct. 31	3467	797	89	744
Valder, Henry, Wellington, New Zealand. Weighing-scale	620,063	Feb. 21	2322	528	86	1304
Valdettaro, Louis A., New York, N. Y. Fastening device	623,193	Apr. 18	1854	425	87	389
Valdez, Zeferino, Los Angeles, Cal. Toy torpedo	633,671	Sept. 26	2777	645	88	2292
Valente, Frank, *et al.* (See Demaria and Ranzini, assignors.)						
Valentine, Charles R., London, England. Capsuling food extracts	628,681	July 11	1398	------	88	290
Valentine, Daniel, Brockton, Mass. Electric railway signaling device	623,444	Apr. 18	2298	526	87	480
Valentine, William M., Glen Cove, N. Y. Hasp-lock	618,303	Jan. 24	2762	612	86	588
Valentiner, Friedrich, Leipsic-Plagwitz, Germany. Making acetophenonphenetidid	629,099	July 18	2154	------	88	458
Valerius, Theodore L., assignor to Cornish, Curtis & Greene Manufacturing Company, Fort Atkinson, Wis. Automatic fluid-delivery apparatus	619,451	Feb. 14	1211	276	86	1065
Valiant, George, assignor to M. Weston, Toronto, and W. M. Pentelow, London, Canada. Umbrella for bicycles	639,634	Dec. 19	2664	612	89	2426
Valiquet, Louis P., New York, N. Y. Automatic gramophone	631,912	Aug. 29	4035	904 905	88	1578
Valiquet, Louis P., New York, N. Y., assignor to Universal Talking Machine Company, of New York, Coin-operated mechanism	631,911	Aug. 29	4032	903 904	88	1577
Valley, Gustaf, assignor to Steel Motor Company, Johnstown, Pa. Electric controller	627,549	June 27	2496	548 549	87	2156
Vallière, Joseph F., Whitins, Mass. Millwright-vise	637,978	Nov. 28	3707	780	89	1754
Van Allen, Lucas H., *et al.* (See Richardson, Julius C., assignor.)						
Van Allen, Stephen M., New York, N. Y. Automatic pump for vehicles	622,405	Apr. 4	353	82	87	66
Van Alstine, George W., assignor to Antiseptic Appliance Company, Los Angeles, Cal. Antiseptic device for sound-transmitter mouthpieces	635,209	Oct. 17	2277	531	89	483
Van Alstine, George W., assignor to Antiseptic Appliance Company, Los Angeles, Cal. Antiseptic device for sound-transmitter mouthpieces	637,538	Nov. 21	2527	547	89	1464
Van Alstine, George W., assignor of one-half to A. C. Wirtz, Los Angeles, Cal. Faucet-filter	639,471	Dec. 19	2380	548	89	2368
Van Alstyne, Charles H., Manchester, Iowa. Barrel-heater and feed-cooker	632,160	Aug. 29	4505	1015	88	1671
Van Ame, Wales E., Fort Wayne, Ind. Autographic register	639,635	Dec. 19	2667	612	89	2427
Van Auken, Clarence E., Chicago, Ill. Heating apparatus and device for controlling action thereof	625,306	May 16	2465	560	87	1215
Van Auken, Clarence E., Chicago, Ill. Steam heating apparatus and device for controlling action thereof	634,547	Oct. 10	1083	257	89	234
Van Berckelaer, Alexandre. (See Wanderpepen, Van Berckelaer, and Byl.)						
Van Berkel, Wilhelmus A., Rotterdam, Netherlands. Machine for slicing German sausages, &c	628,742	July 11	1499	348	88	313
Van Berkel, Wilhelmus A., Rotterdam, Netherlands. Machine for slicing German sausages, &c	635,225	Oct. 17	2306	537 538	89	489
Van Bibber, Andrew, Cincinnati, Ohio. Torpedo	627,312	June 20	2029	445	87	2048
Van Bibber, Andrew, Cincinnati, Ohio. Harbor or coast defense	627,313	June 20	2031	445	87	2049
Van Brunt, Abram, New York, N. Y. Railway-frog	634,780	Oct. 10	1480	349	89	311
Van Brunt, George F., Kewanee, Ill. Washing-machine	631,347	Aug. 22	3006	682	88	1366
Van Buren, Robert. (See Hawkes, Henry, assignor.)						
Van Buskirk, Samuel, London, England. Bridle	621,625	Mar. 21	1997	445	86	1912
Van Cauwenberghe, Prosper, New Haven, Conn. Padlock	618,752	Jan. 31	3589	801	86	762
Van Cleve, Frank H. (See Marble, Webster L., assignor.)						
Van Dame, John R., Grand Rapids, Mich. Sleeve-pattern	618,387	Jan. 24	2928	647	86	620
Van den Berghe, Peter. (See McAnulty and Van den Berghe.)						
Van den Bosch, Emma. (See Van den Bosch, Frederick, assignor.)						
Van den Bosch, Frederick, assignor to E. Van den Bosch, Parker's Landing, Pa. Mold for piston-packing	625,221	May 16	2300	524	87	1184
Van Denbergh, Frank P., Buffalo, N. Y. Electric furnace	628,373	July 4	793	184	88	152
Van der Cruyssen, Henri A., assignor of one-half to N. P. Moss, Lafayette, La. Telescopic tower	639,189	Dec. 12	1840	423 424	89	2244
Van der Plaat, Jhon, Paterson, N. J. Tobacco-cutter	622,905	Apr. 11	1303	300	87	266
Van der Vijgh, Albert H., H., and G., Amsterdam, Netherlands. Artificial stone	632,482	Sept. 5	494	------	88	1805
Van der Vijgh, Gerhard. (See Van der Vijgh, Albert H., H., and G.)						
Van der Vijgh, Hendrik. (See Van der Vijgh, Albert H., H., and G.)						
Van der Wee, Everard, Rochester, N.Y. Machine for locating and stamping matrix-bars	627,160	June 20	1747	383	87	1991
Van Derveer, Joseph P., Clanton, Ala. Magazine tack-hammer	626,012	May 30	3804	865	87	1518
Van Dervort, John F., Topeka, Kans. Acetylene-gas generator	620,064	Feb. 21	2324	528	86	1304
Van Devanter, Decatur H., Waterford, Va. Paper-roll attachment for type-writing machines	631,600	Aug. 22	3488	788	88	1463
Van Dillenbeck, Arie, Albany, N. Y. Machine for grinding tools	639,636	Dec. 19	2669	612	89	2427
Van Dorin, Lewis, San Bernardino, Cal. Punch and shears	617,619	Jan. 10	1437	328	86	299
Van Dorn & Dutton Company. (See Schneider, Franklin, assignor.)						
Van Dorn Iron Works Company. (See Stoddard, Edgar, assignor.)						
Van Duzen, Frank, Marion, Ohio. Exhaust-muffler for engines	638,776	Dec. 12	1108	248	89	2103
Van Dyck, Francis C., Jr., New Brunswick, N. J. Self-setting annunciator-indicator	620,998	Mar. 14	869	189	86	1683
Van Emon, Burton C., San Francisco, Cal. Controller for electrical elevators	624,409	May 2	844	191	87	863
Van Etten, Helen M., Moravia, N. Y. Artificial fuel	638,612	Dec. 5	801	------	89	2019
Van Etten, Ira S., and W. E. Berry; said Berry assignor to said Van Etten; said Van Etten assignor of one-half to C. M. Stanburrough and W. J. Christie, Cygnet, Ohio. Pipe-wrench	631,056	Aug. 15	2490	564	88	1247
Van Galen, William, Bing, Wis. Mop-wringer	621,481	Mar. 21	1748	389	86	1865
Van Gelder, Johannes P. and P., Sowerby Bridge, England. Apparatus for separating solid impurities from air and gases and sorting same	621,651	Mar. 21	2049	457 458	86	1923
Van Gelder, Pieter. (See van Gelder, Johannes P. and P.)						
Van Gink, Gerardus L., Amsterdam, Netherlands. Rotary expansion-engine	635,245	Oct. 17	2334	545	89	494
Van Heese, Heinrich, *et al.* (See Prokov, Friedrich W., assignor.)						
Van Hennik, Frank, Yonkers, N. Y. Game	623,344	Apr. 18	2126	488	87	444
Van Hoevenbergh, Henry. (See Fellowes and Van Hoevenbergh.)						
Van Hoevenbergh, Henry, New York, N. Y. Electric locomotion	628,968	July 18	1911	444 445	88	409
Van Hoevenbergh, Henry, assignor to H. L. Fellowes, New York, N. Y. Electric branding device	619,519	Feb. 14	1325	303	86	1089
Van Hoevenbergh, Henry, New York, N. Y., assignor to N. C. Rogers, Greenwich, Conn. Electrically-driven vehicle	628,967	July 18	1909	444	88	409

Alphabetical list of patentees—Continued.

Name, residence, and invention.	No.	Date.	Monthly volume. Spec.	Monthly volume. Dr'g.	Official Gazette. Vol.	Official Gazette. Page.
Van Hook, Franklin P., Normal, Ill. Producing plaster products	624,709	May 9	1394	312	87	993
Van Hootegem, Edward F. (See Nugent, Joseph J., assignor.)						
Van Horn, Garret, High Grove, Cal. Bicycle	632,797	Sept. 12	1124	259	88	1945
Van Horn, William C., Hoopeston, Ill. Cryptographic chart	637,049	Nov. 14	1572	339	89	1264
Van Houten, Frank H., Fishkill-on-the-Hudson, N. Y. Hat-pressing machine	636,392	Nov. 7	280	62, 63	89	977
Van Houtin, James A. (See Moore and Elder, assignors.)						
Van Houweling, Arthur, assignor to Pella Automatic Straw Stacker Company, Pella, Iowa. Straw-stacker	626,380	June 6	319	73, 74	87	1675
Van Kannel, Theophilus, Philadelphia, Pa. Locking device for elevators	623,850	Apr. 25	3061	704, 705	87	644
Van Leaven, John. (See Solomon and Van Leaven.)						
Van Loozen, Fred H., Cleveland, Ohio. Ruling-machine	619,241	Feb. 7	834	183, 184	86	976
Van Lue, Clement H. (See Platt, Albert L., assignor.)						
Van Namee, John A., Streator, Ill. Framing-square	622,569	Apr. 4	690	160	87	131
Van Note, Eugene, Chicago, Ill. Hydrocarbon-burner	618,149	Jan. 24	2481	551	86	535
Van Orden, John M., Newark, N. J. Corset	619,851	Feb. 21	1957	444	86	1236
Van Riper, Abram H., and P. F. Guthrie, Nutley, N. J. Chemical fire-extinguisher	623,851	Apr. 25	3065	705	87	645
Van Riper, Abram H., and P. F. Guthrie, Nutley, N. J. Chemical fire-extinguisher	625,618	May 23	3017	687	87	1349
Van Ryzin, Martin P., assignor of one-half to J. V. Canavan, Appleton, Wis. Sash-fastener	620,199	Feb. 28	2577	586	86	1366
Van Schoick, George R. (See Stewart and Van Schoick.)						
Van Setres, Jacob and K.. Paterson, N. J. Horseshoe	618,189	Jan. 24	2564	567	86	550
Van Setres, Krÿn. (See Van Setres, Jacob and K.)						
Van Sickle, Garrett, Shortsville, N. Y. Harrow	630,139	Aug. 1	771	166	88	875
Van Sickle, Henry, *et al.* (See Henkel and Kunz, assignors.)						
Van Sickle, Nial, Sioux City, Iowa. Temporary binder	635,409	Oct. 24	2692	617	89	580
Van Slooten, William, New York, N. Y. Miner's compass	635,606	Oct. 24	3046	700	89	648
Van Slyke, Victor T., Shell Rock, Iowa. Necktie-fastener	631,730	Aug. 22	3720	835	88	1506
Van Tassel, William H. (See Barger, Lucas, assignor.)						
Van Thuyne, Julian L. (See Shaw, Charles W., assignor.)						
Van Trump, Samuel H., Elmira, and F. D. Rowell, Liberty, Mo. Vehicle-wheel	620,200	Feb. 28	2578	586	86	1366
Van Tuyl, Frank W., Algiers, La. Fly-screen	623,445	Apr. 18	2300	527	87	481
Van Valkenburg, George M., Forest, Canada. Caliper-gage	634,968	Oct. 17	1822	431	89	395
Van Valkenburgh, Walter E., New York, N. Y. Hand printing-press	627,368	June 20	2149	473	87	2072
Van Vriesland, Adolphe I., Amsterdam, Netherlands. Carbureter	631,002	Aug. 15	2377	541	88	1224
Van Vriesland, Adolphe I., Amsterdam, Netherlands. Means for regulating level of liquid in carbureting apparatus	635,210	Oct. 17	2279	531	89	483
Van Wart, Wilfred, F. W. Popp, and J. J. Bradley, Birmingham, England. Alloy	633,743	Sept. 26	2910	------	88	2318
Van Wickel, Jesse F., Jr., Jersey City, N. J. Carpet-fastener	635,211	Oct. 17	2280	531	89	483
Van Wie, Peter G., assignor to F. & L. Kahn & Bros., Hamilton, Ohio. Water-heater	638,301	Dec. 5	220	46	89	1908
Van Wie, Peter G., and L. Kahn, assignors to F. & L. Kahn & Bros., Hamilton, Ohio. Water-heater	628,048	July 4	162	34	88	33
Van Wyck, Arnold, *et al.* (See Tienhoven, Baltazar W., assignor.)						
Vanarsdale, Adnah E. (See Kaufman, Titus, and Vanarsdale.)						
Vance, John, Franklin, Tenn. Sod, ballast, and ditch line marker	627,550	June 27	2497	549	87	2156
Vance, Theodore J., Rosebud, Mont. Current-wheel	618,148	Jan. 24	2478	551	86	535
Vance, Thomas C. H., Louisville, Ky. Fire-escape	630,576	Aug. 8	1633	365	88	1055
Vance, William H., assignor of two-thirds to F. W. and E. D. Wolfe, San Francisco, Cal. Faucet-filter	617,133	Jan. 3	528	126	86	103
Vandegrift, George J., Philadelphia, and J. C. Webb, Port Providence, Pa. Indicator	628,900	July 11	1790	417	88	368
Vandegrift, Nathaniel W., assignor to Armstrong Manufacturing Company, Bridgeport, Conn. Thread-cutting tool	635,987	Oct. 31	3793	873	89	808
Vander Stel, John, assignor to A. Allgier, Grand Rapids, Mich. Hose-coupling implement	638,823	Dec. 12	1190	266	89	2118
Vander Stel, John, assignor to A. Allgier, Grand Rapids, Mich. Fruit-can holder	638,824	Dec. 12	1191	267	89	2119
Vander Weyde, Henry, London, England. Bicycle-supporter	619,103	Feb. 7	575	123, 124	86	923
Vander Weyde, Henry, London, England. Bicycle-supporter	635,618	Oct. 24	3072	704, 705	89	654
Vanderbeek, Abraham, Hartford, Conn. Universal joint for shafting, &c	617,869	Jan. 17	1936	433	86	417
Vanderbilt, Cornelius, Jr., New York, N. Y. Locomotive-boiler	637,186	Nov. 14	1855	399	89	1315
Vanderbilt, William B., Washington, N. J. Driving-rein holder	620,997	Mar. 14	868	189	86	1683
Vanderburgh, J. Harvey, Mountsberg, Canada. Cloth-measuring machine	628,374	July 4	795	185	88	153
Vanderman, William, Willimantic, Conn. Stand for toilet articles	626,739	June 13	950	216	87	1817
Vanderman, William, Willimantic, Conn. Pipe-wrench	633,709	Sept. 26	2854	663	88	2307
Vanderman, William, Willimantic, Conn. Bathing appliance	634,486	Oct. 10	970	232	89	211
Vanduzen, Benjamin C., Winton Place, Ohio. Lubricating apparatus for engines	636,014	Oct. 31	3841	883	89	817
Vanduzen, Benjamin C., Winton Place, Ohio. Vaporizer for explosive-engines	638,529	Dec. 5	651	135, 136	89	1990
Vanduzen, Ezra W., Cincinnati, Ohio. Alarm-gong	628,133	July 4	334	80	88	68
Vanevera, Morgau H., Little Falls, N. Y. Adjustable handle-bar for bicycles	620,684	Mar. 7	261	53	86	1553
Vaniman, Daniel, McPherson, Kans. Fence-post	618,304	Jan. 24	2764	612	86	588
Vanino, Ludwig, Munich, Germany. Wet process of extracting silver from its haloid salts	630,951	Aug. 15	2282	------	88	1205
Vankirk, William S., Middlesborough, Ky. Toy pistol	620,384	Feb. 28	2892	662	86	1427
Vankirk, William S., Middlesborough, Ky. Animal-trap	636,870	Nov. 14	1218	263	89	1195
Vanneste, Charles, New York, N. Y. Vehicle	621,438	Mar. 21	1657	366	86	1847
Vansickle, Alexander A., assignor of two-thirds to T. F. Scullin and H. C. Jordan, Indianapolis, Ind. Gas-engine	620,080	Feb. 21	2350	532, 533	86	1309
Vanstone, Samuel, Providence, R. I. Manufacture of metallic tubes or nuts	618,817	Jan. 31	3702	828	86	784
Vanstone, Samuel, Providence, R. I. Construction of hollow shafting, tubing, &c	620,517	Feb. 28	3101	709	86	1497
Varcoe, James, Boston, Mass. Folding bedstead	630,140	Aug. 1	773	166, 167	88	876
Varcoe, Thomas, Lead City, S. D. Clothes-line support	622,788	Apr. 11	1083	251	87	224
Varley, Richard. (See Candee and Varley.)						
Varney, Joseph T., Lynn, Mass., assignor to Superior Toe-Calk Company, of Maine. Horseshoe-toe-calk machine	618,150	Jan. 24	2484	552	86	536
Varney, Samuel W., Norwich, Conn. Counter for type-writers	628,256	July 4	571	136	88	112
Varney, William W. (See Ketchum and Varney.)						
Varns, Albert F., Kunkle, Ohio. Stand for flowers	626,513	June 6	543	125, 126	87	1719
Varnum, James A., Boston, Mass. Hawser-indicator	635,085	Oct. 17	2042	482	89	440
Varnum, Stephen H. (See Bouton and Varnum.)						
Vasseur, Norbert G. (See Chevalier and Vasseur.)						
Vaucher, Charles. (See De la Harpe and Vaucher.)						
Vauclain, Samuel M., Philadelphia, Pa., and G. R. Henderson, Roanoke, Va. Reducing-valve	619,641	Feb. 14	1546	351, 352	86	1129

Alphabetical list of patentees—Continued.

Name, residence, and invention.	No.	Date.	Monthly volume. Spec.	Monthly volume. Dr'g.	Official Gazette. Vol.	Official Gazette. Page.
Vaughan, Andrew E., Philadelphia, Pa. Rib-knitting machine	619,642	Feb. 14	1547	352, 353	86	1129
Vaughan, Charles W., assignor of one-fourth to J. R. Sutton, Hillsdale, Mich. Metallic pipe connection for train-pipes	620,518	Feb. 28	3101	710	86	1467
Vaughan, Earl. (See Kinney and Vaughan.)						
Vaughan, James D. (See Vaughan, Louis, assignor.)						
Vaughan, James D., Fordyce, Ark. Log-hook	626,946	June 13	1370	301	87	1897
Vaughan, Louis, Blair, assignor of one-half to J. D. Vaughan, Fort Calhoun, Nebr. Convertible tray and portable tray-shelf	626,641	June 6	758	174	87	1760
Vaughan, Oscar F., Shannon, Miss. Churn	622,985	Apr. 11	1436	331	87	294
Vaughan, Stephen K., Hyde Park, Vt. Combined cultivator and potato-digger	617,786	Jan. 17	1777	398	86	384
Vaughan, Watkins M., Selma, Ala. Station-indicator	636,393	Nov. 7	282	63	89	978
Vaughn, Charles J., Cleveland, Ohio. Garbage-can	634,677	Oct. 10	1302	307	89	277
Vaughn, Charles P., Salem, Mass., assignor to Vaughn Machine Company, Portland, Me. Machine for treating hides or skins	639,318	Dec. 19	2077	477	89	2308
Vaughn, George C., Salem, Mass., assignor to Vaughn Machine Company, Portland, Me. Apparatus for leaching	622,570	Apr. 4	691	160, 161	87	131
Vaughn, Ira, Salem, and F. J. Perkins, Woburn, Mass., assignors to Vaughn Machine Company, Portland, Me. Staking-machine	639,319	Dec. 19	2080	478	89	2309
Vaughn Machine Company. (See Coombs, Thomas P., assignor.)						
Vaughn Machine Company. (See Cryderman, Jacob, assignor.)						
Vaughn Machine Company. (See Jones, Albert F., assignor.)						
Vaughn Machine Company. (See Perkins, Franklin J., assignor.)						
Vaughn Machine Company. (See Vaughn, Charles P., assignor.)						
Vaughn Machine Company. (See Vaughn, George C., assignor.)						
Vaughn Machine Company. (See Vaughn and Perkins, assignors.)						
Vaughn, Singleton, Bakersfield, Cal. Tricycle	634,192	Oct. 3	382	98	89	79
Vaughn, Warton A., assignor to James Smith Woolen Machinery Company, Philadelphia, Pa. Shaft clutching and releasing device	626,113	May 30	4016	915, 916	87	1554
Vawter, William A. (See Stoelting, Christian H., assignor.)						
Vawter, William A., Chicago, Ill. Leaf for books	622,986	Apr. 11	1437	332	87	294
Vay, Martin, Hoisington, Kans. Rotary engine	628,566	July 11	1162	272, 273	88	244
Veale, Charles H., Cork, Ireland. Lithographer's transfer-paper	625,524	May 23	2848	------	87	1315
Veazie, Francis W., and J. S. Patterson, Chelsea, Mass., assignors to themselves, and W. Hillman, Mount Vernon, N. Y. Pneumatic tire	627,785	June 27	2922	639	87	2241
Veazie, Henry A., New Orleans, La. Filter	620,621	Mar. 7	132	26	86	1527
Vedder, Herman, Rotterdam, N. Y. Band-saw guide	623,446	Apr. 18	2301	527	87	481
Vedovelli, Edouard, Paris, France. System of electric traction	632,543	Sept. 5	619	142, 143, 144, 145, 146	88	1830
Veeder, Curtis H., assignor to Veeder Manufacturing Company, Hartford, Conn. Spoke-pin	629,731	July 25	3301	771	88	697
Veeder, Curtis H., assignor to Veeder Manufacturing Company, Hartford, Conn. Registering-counter	634,073	Oct. 3	152	39	89	34
Veeder Manufacturing Company. (See Prindle, Frank P., assignor.)						
Veeder Manufacturing Company. (See Veeder, Curtis H., assignor.)						
Veilex, Peter A., La Cañada, Cal. Book, leaf, or music holder	634,781	Oct. 10	1481	349	89	311
Veilgaard, Mads P. M., and T. McDonald, assignors to Ohio Steel Company, Youngstown, Ohio. Cutting apparatus	619,520	Feb. 14	1327	304, 305	86	1090
Veith, Jacob, Kansas City, Kans. Type-writing machine	634,653	Oct. 10	1255	298	89	267
Ven, Jens J. (See Nilson and Ven.)						
Venable, William T., Christiansburg, Ky. Mechanical power	619,914	Feb. 21	2063	468	86	1255
Venarde, John, *et al.* (See Armbruster, Peter, assignor.)						
Venezia, Frederick, Boston, Mass. Means for plastering buildings	630,141	Aug. 1	775	167	88	876
Venezia, Vinceut, Boston, Mass. Fireproof partition-wall	637,906	Nov. 28	3583	750	89	1735
Venezia, Vincenzo, Boston, Mass. Floor and ceiling for buildings	633,252	Sept. 19	1989	466, 467	88	2126
Venners, James H., New York, N. Y. Continuous-cigarette-making machine	630,786	Aug. 8	1981	448	88	1123
Venour, James M. H., London, England. Velocipede	634,043	Oct. 3	104	27	89	24
Ventres, W. R., *et al.* (See Brown, Edmond H., assignor.)						
Veon, Andrew E., Brainerd, assignor of one-half to I. Lederer, St. Paul, Minn. Bicycle-fastener	627,314	June 20	2033	446	87	2049
Ver Standig, Bernard, St. Louis, Mo. Bottle	622,737	Apr. 11	997	231	87	209
Verbeke, Emile, Brussels, Belgium. Metallic mantle for gas-burners	625,993	May 30	3727	------	87	1504
Verch, William H., Yonkers, assignor of one-half to J. P. Flanigan, New York, N. Y. Dummy type-writer	625,370	May 23	2587	589	87	1264
Verharen, Frank T., assignor of one-third to W. L. Bender, Spencer, Iowa. Wrench	617,998	Jan. 17	2160	482	86	460
Vereinigte Chininfabriken, Zimmer & Co., Gesellschaft mit Beschränkter Haftung. (See Weller, Albert, assignor.)						
Vereinigte Köln-Rottweiler Pulver Fabriken. (See Brunswig, Heinrich, assignor.)						
Veritys Limited. (See Rosenqvist, Conrad L., assignor.)						
Verley, Albert, Courbevoie, France, assignor to Société Anglo-Francaise des Parfums Perfectionnes, Limited, London, England. Defecating sugar-juices	637,363	Nov. 21	2311	------	89	1403
Vermont Farm Machine Company. (See Soule, George H., assignor.)						
Vernaz, Alexis, assignor to Mermod Frères, Ste. Croix, Switzerland. Damping device for musical instruments	618,151	Jan. 24	2485	552	86	536
Verneuille, Daniel H., Mobile, Ala. Indicator	636,368	Nov. 7	237	52	89	968
Vernon, Charles E., London, and A. Ross, Sutton, England. Electromechanical indicating and recording apparatus	638,893	Dec. 12	1311	298	89	2142
Vernon, Frederick R., New York, N. Y. Folding box	637,838	Nov. 28	3445	720	89	1707
Vernon, John, Philadelphia, Pa., assignor to Franklin Needle Company, Franklin, N. H. Knitting-machine needle	626,114	May 30	4017	916	87	1554
Vernon, Luther, Brooksburg, Ind. Farm-gate	622,735	Apr. 11	994	230, 231	87	208
Vernon, Lydia A., administratrix. (See Vernon, William E.)						
Vernon, Richard R., Summit, N. J. Perpetual calendar	621,589	Mar. 21	1937	433	86	1901
Vernon, William E., San Angelo, Tex. Pump-rod-operating device for windmills	624,710	May 9	1396	312	87	994
Vernon, William E., deceased; L. A. Vernon, administratrix, assignor to C. D. Cowgill, Oskaloosa, Iowa. Churn	619,811	Feb. 21	1881	429	86	1220
Vernoy, Silas, Toronto, Canada. Trolley-pole	636,189	Oct. 31	4194	963	89	889
Veronese, Giovanni, and A. Guadagnini, Bologna, Italy. Compass or drawing instrument	623,227	Apr. 18	1906	437	87	400
Verrell, Charles F., Grand Rapids, Mich. Dust-collector	623,639	Apr. 25	2653	607	87	565
Verroken, Jean B., Antwerp, Belgium. Electric overhead railway	622,736	Apr. 11	996	231	87	209
Verrue, Ernest J., San Francisco, Cal. Amalgamator	625,909	May 30	3570	810	87	1472

Alphabetical list of patentees—Continued.

Name, residence, and invention.	No.	Date.	Monthly volume.		Official Gazette.	
			Spec.	Dr'g.	Vol.	Page.
Vescelus, George A., East St. Louis, Ill. Truss	623,581	Apr. 25	2554	586	87	548
Vessey, Henry, Jamestown, N. D. Portable-engine truck	618,525	Jan. 31	3188	704	86	683
Vestal, James R., Walnut Grove, Mo. Combined pencil holder and sharpener	631,834	Aug. 29	3911	874	88	1554
Vester, Max, Leipsic, Germany. Electric alarm and registering or controlling apparatus	631,082	Aug. 15	2442	554	88	1237
Viall, Walter M., Barberton, Ohio. Fire-mouth for kilns	634,223	Oct. 3	456	116	89	94
Vickars, James H., Montrose, Mo. Washing-machine	632,601	Sept. 5	712	164, 165	88	1847
Vickers, Sons & Maxim. (See Bevans, William H.; assignor.)						
Vickers, Sons & Maxim. (See Buckham and Larsson, assignors.)						
Vickers, Sons & Maxim. (See Dawson and Buckham, assignors.)						
Vickers, Sons & Maxim. (See Dawson and Silverman, assignors.)						
Vickers, Sons & Maxim. (See Horne, James, assignor.)						
Vickers, Sons & Maxim. (See Markham, Arthur B., assignor.)						
Vickers, Sons & Maxim. (See Maxim and Dawson, assignors.)						
Vickers, Sons & Maxim. (See Silverman, Louis, assignor.)						
Vickery, Frederick W., London, England. Feeding device	625,910	May 30	3572	810	87	1473
Vickery, George W., Butler Springs, Ala. Car-coupling	636,301	Nov. 7	130	28	89	948
Vickrey, Levi C., South Bend, Wash. Lifting-jack	635,824	Oct. 31	3469	797	89	744
Victor Cash Register Company. (See Gledhill, George H., assignor.)						
Victor Manufacturing Company. (See Moody, Henry T., assignor.)						
Victor Manufacturing Company. (See Stocker, William H., assignor.)						
Victor Safe and Lock Company. (See Blechschmidt, Charles E., assignor.)						
Victoria Self-Lacing Company. (See Durkee, Egbert S., assignor.)						
Victoria Self-Lacing Company. (See Peck, Ira F., assignor.)						
Victory, Patrick E., assignor of one-third to C. H. Truesdell, Dayville, Conn. Loom	632,975	Sept. 12	1442	334	88	2006
Vidal, Henri R., Paris, France. Black sulfur dye	618,152	Jan. 24	2487	------	86	536
Vidal, Henri R., Paris, France. Making amidophenols	618,809	Jan. 31	3689	------	86	781
Vidal, Henri R., Paris, France. Triphenylmethane dye and making same	621,393	Mar. 21	1583	------	86	1834
Vidal, Henri R., Paris, France. Black dye and making same	622,299	Apr. 4	186	------	87	35
Vidal, Henri R., Paris, France. Cresol-sulfur dye and making same	629,221	July 18	2361	------	88	495
Vidal, Henri R., Paris, France. Substantive sulfur dye and making same	630,952	Aug. 15	2282	------	88	1205
Vidaver, Nathan, *et al.* (See Harvey, William A., assignor.)						
Vidlund, Gustav, Philadelphia, Pa. Antifriction-bearing	627,551	June 27	2499	549	87	2157
Viele, Platt B., Rochester, N. Y. Drying apparatus	626,579	June 6	649	150	87	1741
Viele, Platt B., Rochester, N. Y. Evaporating and condensing apparatus	627,026	June 13	1510	329	87	1925
Viele, Platt B., Rochester, N. Y. Fruit-evaporator	632,602	Sept. 5	714	165	88	1847
Viereck, Samuel. (See Kraber and Viereck.)						
Vieregg, Henry, Grand Island, Nebr. Combined stand-pipe and fire-escape	628,872	July 11	1733	404	88	357
Viereudeel, Arthur, Bruges, Belgium. Girder or beam for bridges	639,320	Dec. 19	2082	479	89	2309
Vierengel, Matthew, New York, N. Y., assignor of one-half to A. E. Richardson, W. B. Jones, and B. M. Lambkin, Burlington, Vt. Paper box	624,583	May 9	1174	264	87	950
Vieth, Hermann, assignor to Knoll & Co., Ludwigshafen, Germany. Rendering ichthyol odorless	625,480	May 23	2768	------	87	1299
Vietor, Alwin, Wiesbaden, Germany. Means for locomotion	618,591	Jan. 31	3303	734, 735	86	705
Vilas, Charlotte C., Milwaukee, Wis. Safety-pin	625,994	May 30	3728	845	87	1504
Vilas, Royal L., assignor to Globe Company, Cincinnati, Ohio. Card-file	637,491	Nov. 21	2437	529	89	1447
Villaret, Max, Witaszyce, Germany. Brick-truck	634,044	Oct. 3	105	27	89	25
Villefeu, Marie Z., Babylon, N. Y. Tag-holder	624,410	May 2	848	191	87	864
Villiers-Stead, Frank, London, England. Locking device for cycles	637,433	Nov. 21	2336	504	89	1428
Vinal, John F., *et al.* (See Ray, Ernest P., assignor.)						
Vincent, Frederick W., New York, N. Y. Hoisting device	633,927	Sept. 26	3212	748	88	2379
Vincent, Joseph A. (See Hewes and Williams, assignors.)						
Vincent, Joseph A. (See Williams, David S., assignor.)						
Vincent, Joseph A., Philadelphia, Pa., assignor to himself, E. N. Dickerson, and J. J. Suckert, New York, N. Y. Tip for burners	624,133	May 2	344	70	87	765
Vinchon, Alexandre, Roubaix, France. Carding-machine	621,183	Mar. 14	1209	264, 265	86	1748
Vining, Lucinda, Gainesville, Tex. Covering-machine	628,049	July 4	164	35	88	34
Vinkle, Mahlon H., Oakes, N. D. Acetylene-gas apparatus	638,777	Dec. 12	1109	248	89	2103
Vinton, Thomas M., Boston, Mass. Support for centerings	628,191	July 4	434	103	88	88
Virtue, Dennis E., and M. Deeg, Owatonna, Minn. Combined churn and butter-worker	634,074	Oct. 3	153	40	89	35
Virtue, William W., Sydney, New South Wales. Machine sheep-shears	631,057	Aug. 15	2492	564	88	1247
Vis, Gerhard N., Schweizerhalle, Switzerland. Purifying brine	623,295	Apr. 18	2038	------	87	427
Viser, William M., Harrodsburg, Ky. Coffee-pot	627,885	June 27	3107	680	87	2276
Viskochil, Miroslav, Shetland, Mich. Cutter-bar	628,873	July 11	1734	405	88	357
Vissering, Harry, *et al.* (See Butler, Leon E., assignor.)						
Vissering, Harry, and L. A. Hoerr, St. Louis, Mo. Draft-rigging	626,253	June 6	63	14, 15	87	1626
Vissering, Harry, and L. A. Hoerr, St. Louis, Mo. Car-door bracket	629,832	Aug. 1	144	33	88	749
Vitanoff, George N., Sophia, Bulgaria. Calendar attachment for penholders or pencil-cases	636,593	Nov. 7	640	141	89	1051
Vive Camera Company. (See Atwater, John L., assignor.)						
Vive Camera Company. (See Atwater, Reeve S., assignor.)						
Vivinus, Edouard A., and A. J. Hecht, Schaerbeek, Belgium. Oil-container for motors	638,190	Nov. 28	4130	872	89	1842
Vivion, David R., Columbia, Mo. Planter	630,759	Aug. 8	1933	436	88	1112
Voce, Thomas R., and B. Drysdale, Birmingham, England. Sprocket driving-wheel	622,738	Apr. 11	998	231, 232	87	209
Vockler, Edward, Wheeling, W. Va. Agitator for liming-vats	637,685	Nov. 21	3171	657	89	1631
Voelker, George W., Woonsocket, R. I. Humidifier	620,385	Feb. 28	2894	663	86	1428
Voelker, William L., London, England, assignor to T. C. Crawford, New York, N. Y. Incandescent electric light and making same	637,979	Nov. 28	3708	------	89	1759
Vogan, Joseph A., Worth, Pa. Glove	626,353	June 6	252	59	87	1663
Vogel, Edward F., assignor to J. B. Kohner and L. E. Sostheim, Chicago, Ill. Lamp for generating acetylene gas	625,222	May 16	2302	524	87	1184
Vogel, Lorenz H. (See Harris, Gazell, and Vogel.)						
Vogel, William E., St. Joseph, Mo. Mechanism for holding and controlling whips	623,228	Apr. 18	1908	438	87	400
Vogle, Michael T., Dubois, Pa. Box	636,302	Nov. 7	131	28	89	948
Vogle, Peter, Johnstown, Pa. Railway-crossing	617,974	Jan. 17	2119	475	86	453
Vogt, Adolf. (See Bachmann and Vogt.)						
Vogt, Adolf, assignor to F. Back, Buda-Pesth, Austria-Hungary. Automatic regulator for electric currents	630,953	Aug. 15	2283	519	88	1205
Vogt, Adolph, and A. R. Scott, Glasgow, Scotland. Obtaining chlorin	623,447	Apr. 18	2303	527	87	481
Vogt, Austin S., Tyrone, Pa. Lock	637,305	Nov. 21	2090	450, 451	89	1377
Vogt, Axel S., Philadelphia, Pa. Water-tube boiler	634,045	Oct. 3	108	28	89	25
Vogt, Julius F., St. Louis, Mo. Barrel	635,212	Oct. 17	2280	531	89	483

Alphabetical list of patentees—Continued.

Name, residence, and invention.	No.	Date.	Monthly volume. Spec.	Monthly volume. Dr'g.	Official Gazette. Vol.	Official Gazette. Page.
Voigt, Henry, Cincinnati, Ohio. Upholstering appliance	624,134	May 2	345	71	87	766
Voight, Henry G., assignor to Russell & Erwin Manufacturing Company, New Britain, Conn. Padlock	618.487	Jan. 31	3111	688	86	669
Voight, Henry G., assignor to Russell & Erwin Manufacturing Company, New Britain, Conn. Stop for latches	621,874	Mar. 28	2482	554	86	2024
Voight, Henry G., assignor to Russell & Erwin Manufacturing Company, New Britain, Conn. Pin-lock	621,875	Mar. 28	2483	554	86	2024
Voight, Henry G., assignor to Russell & Erwin Manufacturing Company, New Britain, Conn. Lock or latch case	623,296	Apr. 18	2040	468	87	427
Voight, Henry G., assignor to Russell & Erwin Manufacturing Company, New Britain, Conn. Cylinder-lock	624,411	May 2	848	191	87	864
Voight, Henry G., assignor to Russell & Erwin Manufacturing Company, New Britain, Conn. Sash-fastener	624,412	May 2	851	192	87	864
Voight, Henry G., assignor to Russell & Erwin Manufacturing Company, New Britain, Conn. Night-latch	625,073	May 16	2046	460	87	1137
Voight, Henry G., assignor to Russell & Erwin Manufacturing Company, New Britain, Conn. Cylinder-lock	629,630	July 25	3125	727	88	664
Voight, Henry G., assignor to Russell & Erwin Manufacturing Company, New Britain, Conn. Master-key padlock	632,292	Sept. 5	163	37	88	1739
Voight, Henry G., assignor to Russell & Erwin Manufacturing Company, New Britain, Conn. Door-bell	632,293	Sept. 5	164	38	88	1740
Voight, Henry G., assignor to Russell & Erwin Manufacturing Company, New Britain, Conn. Reversible latch	632,294	Sept. 5	165	38	88	1740
Voight, Henry G., assignor to Russell & Erwin Manufacturing Company, New Britain, Conn. Door-knob	632,295	Sept. 5	166	38	88	1740
Voight, Henry G., assignor to Russell & Erwin Manufacturing Company, New Britain, Conn. Cupboard-latch	634,565	Oct. 10	1116	265	89	240
Voight, Henry G., assignor to Russell & Erwin Manufacturing Company, New Britain, Conn. Padlock	636,303	Nov. 7	132	29	89	948
Voight, Henry G., assignor to Russell & Erwin Manufacturing Company, New Britain, Conn. Knob attachment	639,006	Dec. 12	1523	349	89	2183
Voight, Henry G., and N. B. Hurd, assignors to Russell & Erwin Manufacturing Company, New Britain, Conn. Door-check	632,291	Sept. 5	160	37	88	1739
Voigt, Julius F. H., and J. A. Haeffner, Bockenheim, Germany, assignors to Roesslcr & Hasslacher Chemical Company, New York, N. Y. Electrical resistance	617,375	Jan. 10	995	228	86	213
Voigtmann, Frank, and S. H. Pomeroy, Chicago, Ill. Fireproof window	637,907	Nov. 28	3584	750	89	1735
Voit, Wilhelm, Magdeburg, Germany. Steam-actuated valve	626,947	June 13	1371	301	87	1898
Vold, Malachi, Alta, Iowa. Show-case	628,682	July 11	1393	325	88	290
Volenite, Limited. (See Lamplough, Frederick, assignor.)						
Volk, Louis, *et al.* (See Yonge, Chandler I., assignor.)						
Volkman, Paul T., Jersey City, N. J. Bicycle-brake	634,046	Oct. 3	110	28	89	25
Volkmann, John H., New York, N. Y. Coin-controlled package-delivery apparatus	627,161	June 20	1750	384	87	1991
Volle, John G. (See Fuller and Volle.)						
Vollkommer, Theodore J., Youngstown, Ohio. Conveying apparatus	629,140	July 18	2233	517	88	472
Vollmann, Carl W., Montreal, Canada. Valve	623,194	Apr. 18	1855	425	87	389
Vollmar, Henry C., Port Huron, Mich. Combined blacking-brush and shoe-cleaner	623,582	Apr. 25	2555	586	87	548
Vollmer, John. (See Kretschmar and Vollmer.)						
Volstad, Samuel G., Chicago, Ill. Shirt-band clasp	624,997	May 16	1915	430	87	1113
Voltz, John S., Buffalo, N. Y. Bicycle-saddle spring	624,269	May 2	597	129	87	812
Volz, Henry J., assignor to M. J. Volz, Batavia, N. Y. Acetylene-gas generator	629,481	July 25	2855	664	88	611
Volz, Margaret J. (See Volz. Henry J., assignor.)						
Von Auw, Alwin, assignor to S. A. Von Auw, New York, N.Y. Book-back-lettering machine	620,622	Mar. 7	134	27	86	1528
Von Auw, Alwin, assignor to S. A. Von Auw, New York, N. Y. Machine for making center-stitched books	626,115	May 30	4018	916, 917, 918	87	1554
Von Auw, Sarah A. (See Von Auw, Alwin, assignor.)						
Von Culin, Clayton, Delaware City, Del. Incubator	619,521	Feb. 14	1330	305	86	1090
Voncanon, William A., Indianapolis, Ind. Acetylene-gas-generating lamp	632,887	Sept. 12	1304	299	88	1978
Voorhees, Emory B., Ovid, Mich. Casket-lowering apparatus	618,153	Jan. 24	2488	552, 553	86	536
Voorhees, Emory B., Ovid, Mich. Burial apparatus	636,933	Nov. 14	1361	290	89	1222
Voorhees, John J., and W. W. Ainsworth, Jersey City, N. J.; said Ainsworth assignor to said Voorhees. Die for molding rubber tubing	630,080	Aug. 1	673	144	88	856
Voorhees, John L., *et al.* (See Johnson, Chester P., assignor.)						
Voorhees, Richard D., Flora, Ind. Shoe-polisher	623,051	Apr. 11	1553	358	87	317
Vordtriede, E. Henry. (See Langer, Gotthold, assignor.)						
Voron, Isaac, London, England. Cigarette	636,088	Oct. 31	4015	917	89	851
Vose, Ambrose S., Brookline, Mass. Adjustable handle-bar for bicycles	619,452	Feb. 14	1215	276	86	1066
Vose, Ambrose S., Boston, Mass. Burnishing-tool	628,422	July 4	881	207	88	169
Vose, John G., assignor of one-fourth to T. A. Smith, Lawrenceville, Ga. Nut-lock	640,152	Dec. 26	3616	831	89	2635
Voshell, James T., Paragon, Ind. Spool-holding attachment for sewing-machines	625,481	May 23	2769	630	87	1299
Vosmaer, Alexander, Haarlem, Netherlands. Apparatus for effecting silent electrical discharges	636,304	Nov. 7	133	29	89	948
Voss, Diederich C., Gloucester, Mass. Convertible and reversible cultivator	639,116	Dec. 12	1703	393	89	2218
Voss, George J. (See Voss, Joseph F., assignor.)						
Voss, Herman W., New York, N. Y. Camera-support	627,629	June 27	2661	584	87	2189
Voss, Joseph F., assignor to G. J. Voss, Cincinnati. Ohio. Commode	638,894	Dec. 12	1314	299	89	2142
Votey, Edwin S., Detroit, Mich. Bellows for musical instruments	636,594	Nov. 7	642	141	89	1052
Voyles, Lewis E. (See Coleman, John T., assignor.)						
Voynow, Constantine B. (See Taylor and Voynow.)						
Voynow, Constantine B., Philadelphia, Pa. Apparatus for clamping and holding rails, &c.	629,053	July 18	2060	480	88	439
Vroman, Alonzo J., Black River Falls, Wis. Dust-pan	637,908	Nov. 28	3585	751	89	1735
Vrooman, Harry S., Chicago, Ill. Fire-brick arch for furnaces	624,270	May 2	598	129	87	812
Vulcan Iron Works. (See Ludlow, James T., assignor.)						
W. & B. Cowan. (See Fiddes, William, assignor.)						
W. Dewees Wood Company. (See Woolsey, George, assignor.)						
W. & E. T. Fitch Company. (See Hubbard, George M., assignor.)						
W. G. Armstrong, Whitworth & Company. (See Hadcock and Murray, assignors.)						
W. H. Wilmarth & Company. (See Cartledge, Wilfred B., assignor.)						
W. O. Hickok Manufacturing Company. (See Cooper, Albert, assignor.)						
W. O. Hickok Manufacturing Company. (See Hickok and Cooper, assignors.)						
W. W. Kimball Company. (See Hedgeland, Frederick W., assignor.)						
W. W. Kimball Company. (See Hiscock, Emory C., assignor.)						
W. W. Kimball Company. (See Luvene, Andrew D., assignor.)						
Wachtel & Stoltz. (See Mewes, Rudolf, assignor.)						
Wächter, Heinrich. (See Emanuel, Wächter, and Zugt.)						
Wachter, Jacob W., Washington, D. C. Adhesive and making same	634,047	Oct. 3	113	------	89	26

Alphabetical list of patentees—Continued.

Name, residence, and invention.	No.	Date.	Monthly volume. Spec.	Monthly volume. Dr'g.	Official Gazette. Vol.	Official Gazette. Page.
Waddell, Arch E. and W. A., Hyatt, N. C. Combined fertilizer-distributer and plow	621,184	Mar. 14	1211	265	86	1749
Waddell, John. (See Newell and Lindberg, assignors.)						
Waddell, Montgomery, New York, N. Y. Bridge	621,466	Mar. 21	1720	382	86	1860
Waddell, Montgomery, New York, N. Y. Electrical indicator	634,487	Oct. 10	971	233	89	212
Waddell, Montgomery, New York, N. Y. Bridge	637,050	Nov. 14	1573	339, 340	89	1264
Waddell, Montgomery, New York, N. Y., and C. Legrand, Westfield, N. J.; said Legrand assignor to said Waddell. Electrical indicator	634,488	Oct. 10	975	233	89	218
Waddell, William A. (See Waddell, Arch E. and W. A.)						
Waddy, Marcellus M., Hampton, assignor to A. & B. Tonnar, Grace, Miss. Nut-wrench	632,603	Sept. 5	715	165	88	1848
Wade, Edward J., London, England. Electrical switch	626,798	June 13	1066	240	87	1839
Wade, Frank M., Chicago, Ill., assignor to J. W. Sefton Manufacturing Company, Anderson, Ind. Bottle-wrapper	621,983	Mar. 28	2708	611	86	2065
Wade, Harry R., *et al.* (See Clouse, Joseph N., assignor.)						
Wade, Harry R., assignor of nine-sixteenths to D. W. Bowman and E. W. Kohne, Toledo, Ohio. Combination game and advertisement-case	637,434	Nov. 21	2338	504	89	1428
Wade, James F., Effingham, Ill. Washpounder	624,711	May 9	1397	312	87	994
Wade, James L., London, England. Disinfector for automatically delivering disinfectant to charges of flush-water	634,515	Oct. 10	1022	244	89	222
Wadsworth, Frank L. O., Williams Bay, Wis., assignor to W. A. Boud, trustee, Chicago, Ill. Tile structure	632,908	Sept. 12	1340	308	88	1985
Wadsworth, Frank L. O., Williams Bay, Wis., assignor to W. A. Bond, trustee, Chicago, Ill. Tile structure	632,909	Sept. 12	1341	308	88	1985
Wadsworth, Frank L. O., Williams Bay, Wis., assignor to W. A. Bond, trustee, Chicago, Ill. Tile structure and tiles therefor	639,637	Dec. 19	2671	613	89	2428
Wadsworth, Harry S., *et al.*, executors. (See Pooley, Edward F. and F. D.)						
Wadsworth, John, Manchester, Ill. Animal-trap	628,969	July 18	1913	445	88	409
Wagandt, Charles L., Baltimore, Md. Oil-can	623,345	Apr. 18	2127	488	87	444
Wagenhals, William G., Hartwell, Ohio. Controller-operating mechanism	626,643	June 6	762	174	87	1761
Wagg, Solomon R., Appleton, Wis. Refining-engine of Jordan type for grinding paper-pulp	625,818	May 30	3396	771	87	1440
Wagg, William W. (See Buley and Wagg.)						
Waggener, W. Cole. (See Whittington, William E., assignor.)						
Waggoner, Albert E., Muskegon, assignor of one-half to A. K. Wheeler, Grand Rapids, Mich. Watchman's clock	624,413	May 2	852	192	87	864
Waggoner, James G., Jonesville, assignor of one-half to E. T. Martin, Columbus, Ind. Washer for nut-locks	634,048	Oct. 3	113	29	89	26
Wagner, Alfred A., St. Louis, Mo. Christmas-tree stand	626,514	June 6	544	126	87	1719
Wagner, Bernhard, Rahway, N. J. Roller-skate	619,370	Feb. 14	1063	239	86	1037
Wagner, Caroline C. M., Hamburg, Germany. Spooling device for sewing-machines	628,874	July 11	1735	405	88	358
Wagner, Charles, assignor to E. F. Caldwell. New York, N. Y. Insulating-joint	636,475	Nov. 7	419	93	89	1006
Wagner, Charles O., Troy, N. Y. Needle-guide for glove-sewing machines	630,474	Aug. 8	1447	323	88	1019
Wagner, Edward H., New York, N. Y. Toy pistol	631,945	Aug. 29	4094	918	88	1589
Wagner, Edward M., Denver, Colo. Burglar-alarm lock	632,664	Sept. 5	839	196, 197	88	1875
Wagner, Emil L., Aberdeen, S. D. Rope-pulley	630,760	Aug. 8	1934	437	88	1112
Wagner, Eugen, Charlottenburg, Germany. Pictures on stone	623,052	Apr. 11	1554	------	87	317
Wagner, Franz X. (See Wagner, Herman L. and F. X.)						
Wagner, Franz X., New York, N. Y. Vessel-lubricator	623,448	Apr. 18	2305	527	87	481
Wagner, Franz X., assignor to Wagner Typewriter Company, New York, N. Y. Paper-carriage and index mechanism for type-writers	624,135	May 2	348	71,72	87	766
Wagner, George M., Philadelphia, Pa. Ventilating attachment for windows	637,187	Nov. 14	1856	400	89	1316
Wagner, Gustav, Reutlingen, Germany. Circular saw	631,684	Aug. 22	3624	816	88	1489
Wagner, Herbert A., St. Louis, Mo. Method of and means for deriving polyphase currents	617,842	Jan. 17	1882	420	86	406
Wagner, Herbert A., and D. W. Roper, St. Louis, Mo. Means for operating electric-arc lamps	631,975	Aug. 29	4151	934	88	1600
Wagner, Herman L. and F. X., assignors to J. T. Underwood, New York, N. Y. Type-writing machine	633,672	Sept. 26	2778	646, 647	88	2292
Wagner, Hubert, Jr., and J. H. Dailey, Burlington, Wis.; said Wagner assignor to said Dailey. Buckle	629,054	July 18	2063	481	88	439
Wagner, John G., New York, N. Y. Garment-supporter	639,875	Dec. 26	3111	715	89	2531
Wagner, John G., Jr., and H. S. Searle, Rochester, N. Y. Device for transmitting motion	618,922	Feb. 7	195	42	86	943
Wagner, Louis, Tiffin, Ohio. Train-order-delivering mechanism	628,504	July 11	1029	239	88	218
Wagner, Orlando H. (See Parkes and Wagner.)						
Wagner, Philippe, Constantinople, Turkey. Bicycle running on rails	626,580	June 6	651	151	87	1741
Wagner, Robert C., Jonesborough, Ind. Knurling-wheel tool	622,987	Apr. 11	1438	332	87	294
Wagner, Rudolph, New York, N. Y. Coin-controlled apparatus	628,171	July 4	399	93, 94	88	80
Wagner Typewriter Company. (See Wagner, Franz X., assignor.)						
Wagner, Wilhelm, Aix-la-Chapelle, Germany. Inhaler	629,482	July 25	2858	664	88	611
Wahl, Frederick, Sr., *et al.* (See Huxley, Charles E., assignor.)						
Wahle, Adolph, Davenport, Iowa. Rotary steam motor or engine	634,969	Oct. 17	1823	432	89	395
Wahlert, Ed. T. (See Hanke, Gustav, assignor.)						
Wahlert, Henry A., St. Louis, Mo., assignor to Acme Pipe Clamp Company, of Illinois. Pipe-clamp	622,739	Apr. 11	999	232	87	209
Wahlert, Henry A., assignor to Acme Pipe Clamp Company, St. Louis, Mo. Pipe-clamp	630,428	Aug. 8	1359	303, 304	88	1002
Wahlström, Emil A., Cannstadt, Germany. Machine for sharpening cutting-tools of cutters	631,884	Aug. 29	3995	894	88	1570
Waibel, Frederick B., and H. Meytrott, assignors to Manhattan Brass Company, New York, N. Y. Acetylene-gas lamp	625,943	May 30	3623	824	87	1483
Waibel, Frederick B., and H. Meytrott, assignors to Manhattan Brass Company, New York, N. Y. Bicycle-lamp bracket	632,858	Sept. 12	1229	282	88	1967
Waibel, Frederick B., and A. Gross, assignors to Manhattan Brass Company, New York, N. Y. Shade-holder	638,530	Dec. 5	653	136	89	1991
Wain, Charles L. (See Horn and Wain.)						
Wainwright, Jacob T., Chicago, Ill. Machine for exhausting molten metal at high temperature. (Reissue)	11,737	Apr. 25	3263	751	87	683
Wait, Henry H., assignor to Western Electric Company, Chicago, Ill. Armature for dynamo-electric machines	628,050	July 4	166	35	88	34
Wait, Henry H., assignor to Western Electric Company, Chicago, Ill. Ceiling-fan motor	636,871	Nov. 14	1220	264	89	1195
Waite, Henry E., Newton, Mass. Mail-marking device	634,418	Oct. 3	843	203, 204	89	168
Waite, Joseph. (See Copeman, Thorn, assignor.)						
Waits, Daniel, Rouseville, Pa. Reversing-gear for engines	622,934	Apr. 11	1352	311	87	276
Waitt, Arthur M., and H. F. Ball, Cleveland, Ohio. Journal-box for railway-cars	631,348	Aug. 22	3007	682	88	1367

Alphabetical list of patentees—Continued.

Name, residence, and invention.	No.	Date.	Monthly volume. Spec.	Monthly volume. Dr'g.	Official Gazette. Vol.	Official Gazette. Page.
Waitt, George W., San Francisco. Cal. Tappet for stamping-mills	631,535	Aug. 22	3354	763	88	1435
Waitzfelder, Ludwig. (See Ihn, Alexander, assignor.)						
Wake, Charles E., assignor of one-half to C. S. Ingersoll, Kirwin, Kans. Acetylene-gas generator	634,075	Oct. 3	155	40	89	35
Wakfer, William H., London, England. Driving-gear for cycles	626,642	June 6	760	174	87	1761
Wakefield, Nathan S., Pomona, Cal., assignor to himself, and A. Thompson, Warner, N. H. Shoe-stapling machine	628,375	July 4	798	185, 186	88	153
Wakeman, Francis B., Eldora, Iowa. Siding-square	621,394	Mar. 21	1584	351	86	1834
Walbridge, William D., *et al.*, trustees. (See Galbraith, Robert, assignor.)						
Walbridge, William D., *et al.*, trustees. (See Girtanner, Frederick, assignor.)						
Wald, Max, New York, N. Y. Waistband for trousers	622,571	Apr. 4	694	162	87	132
Wald, Max M., assignor of one-half to A. Santhoff, Madison, Wis. Handle for washboilers	635,825	Oct. 31	3472	797, 798	89	745
Walden, Edward C., assignor of one-half to B. S. Peters, Middletown, Pa. Carpet-stretcher	620,065	Feb. 21	2326	528	86	1304
Walden, Gilbert L., New Market, Va. Support for invalids	627,663	June 27	2717	595	87	2200
Waldmann, Carl, *et al.* (See Kubica, Paul, assignor.)						
Waldo, George C. (See Grave, Lothar von, assignor.)						
Waldran, Charles N., and J. W. Willey, Quito, Tenn. Flood-fence	638,035	Nov. 28	3829	806	89	1782
Waldrip, Elmer, Asotin, Wash. Copy-holder	634,922	Oct. 17	1732	411	89	377
Waldron, William G., *et al.* (See Johnson, Chester P., assignor.)						
Waldron, William H., New Brunswick, N. J. Paper-coating machine	637,364	Nov. 21	2212	476	89	1403
Waldschmidt, Daniel, *et al.* (See Harvey, William L., assignor.)						
Wale, George, Troy, N. Y., assignor to American Symmetroscope Company, Portland, Me., and Boston, Mass. Kaleidoscope	631,550	Aug. 22	3394	768	88	1443
Wales, Thomas C., Jr. (See Crane and Wales.)						
Wales, Thomas C., Jr. (See Thompson and Wales.)						
Wales, Thomas C., Jr., Newton, assignor to American Bell Telephone Company, Boston, Mass. Telephone-switchboard circuit	620,004	Feb. 21	2211	503	86	1283
Wales, Thomas C., Jr., Newton, assignor to American Bell Telephone Company, Boston, Mass. Telephone circuit and switching apparatus	627,813	June 27	2976	651	87	2251
Wales, Thomas C., Jr., Newton, assignor to American Bell Telephone Company, Boston, Mass. Telephone switch apparatus, signal, and circuit	628,567	July 11	1165	273	88	245
Wales, Thomas C., Jr., Newton, assignor to American Bell Telephone Company, Boston, Mass. Telephone-exchange switchboard signaling apparatus	633,403	Sept. 19	2286	538	88	2183
Wales, Thomas C., Jr., Newton, assignor to American Bell Telephone Company, Boston, Mass. Telephone trunk-line signaling	636,872	Nov. 14	1221	264	89	1196
Wales, Thomas C., Jr., Newton, and H. M. Crane, assignors to American Bell Telephone Company, Boston, Mass. Telephonic trunk-circuit	623,583	Apr. 25	2556	586	87	548
Wales, Thomas C., Jr., Newton, and K. W. Waterson, Lowell, assignors to American Bell Telephone Company, Boston, Mass. Telephone switchboard and circuits	632,296	Sept. 5	167	38, 39	88	1740
Walker, A. M., *et al.* (See Mason, William R., assignor.)						
Walker, Albert W., Salem; E. C. Walker, administratrix of said A. W. Walker, deceased, assignor to C. G. Lanier, Winston, N. C. Grain separator and cleaner	639,117	Dec. 12	1704	393	89	2219
Walker, Alexander, assignor to What Cheer Drill and Miners Tool Company, What Cheer, Iowa. Fastening device for tool-handles	633,928	Sept. 26	3213	749	88	2379
Walker, Arthur L., Baltimore, Md. Apparatus for casting metal	623,053	Apr. 11	1554	359, 360	87	317
Walker, Arthur L., Perth Amboy, N. J. Anode	633,056	Sept. 12	1578	368	88	2033
Walker, Arthur W., Malden, Mass. Grate for stoves, furnaces, &c	619,104	Feb. 7	577	124	86	924
Walker, Charles D., Honolulu, Hawaii. Bicycle-pedal	625,619	May 23	3018	687	87	1349
Walker, Charles F. (See Wheelock, Walker, and Diers.)						
Walker Company. (See Short, Sidney H., assignor.)						
Walker, David, Newark, N. J. Step-cover fastener	617,207	Jan. 3	659	153	86	129
Walker, David, Newark, N. J. Step-covering for stairways	617,208	Jan. 3	660	154	86	129
Walker, Edward H. Dumas, Miss. Animal-trap	634,489	Oct. 10	977	234	89	213
Walker, Edwin, Erie, Pa. Cigar-tip cutter	621,185	Mar. 14	1213	265	86	1749
Walker & Ehrman Manufacturing Company. (See Ehrman, Edwin H., assignor.)						
Walker, Eliza C., administratrix. (See Walker, Albert W.)						
Walker, Enos L., St. Louis, Mo. Machine for weaving basket-blanks	621,724	Mar. 21	2192	494	86	1952
Walker, Enos L., St. Louis, Mo. Berry-box crate	625,525	May 23	2849	649	87	1316
Walker, Enos L., St. Louis, Mo. Basket-web	627,283	June 20	1960	431	87	2034
Walker, Frank, Los Angeles, Cal. Combination soil-pipe drainage and venting fitting	635,619	Oct. 24	3074	705	89	655
Walker, Frank I., assignor of one-half to E. J. Hagberg, Waltham, Mass. Card ornament	626,880	June 13	1262	276	87	1876
Walker, Frederick A., and C. E. Rasmusson, assignors to S. H. Sinclair Company, Chicago, Ill. Ironing-machine	626,948	June 13	1372	301, 302, 303	87	1898
Walker, George S., Boston, Mass. Valve for hydrants, &c	620,386	Feb. 28	2895	663	86	1428
Walker, George S., assignor to Illinois Pure Aluminum Company, Lemont, Ill. Comb-cutting machine	627,450	June 20	2309	508, 509	87	2102
Walker, Harry, assignor to W. Johnson, Leeds, England. Separating and grading machine	622,572	Apr. 4	695	162	87	132
Walker, Harry, and W. Johnson, Leeds, England. Crusher for stone, ore, &c	622,573	Apr. 4	697	162, 163	87	133
Walker, Harry, and W. Johnson, Leeds, England. Grinding, crushing, or pulverizing mill	624,136	May 2	351	72, 73	87	767
Walker, Henry C., Western Port, Md. Door-holder	631,885	Aug. 29	3997	894	88	1570
Walker Henry M. (See Senior, Bury, and Walker.)						
Walker, Henry V., New York, N. Y., assignor to Walker-Taylor Company, of New York. Method of and means for preserving liquids	625,280	May 16	2414	547	87	1205
Walker, James A. Rockford, Ill. Bow-facing self-feathering paddle for boats	638,081	Nov. 28	3893	819	89	1795
Walker, James B. Rush Springs, Ind. Ter., assignor of one-half to R. J. Walker, Weir, Kans. Metallic railway-tie	633,673	Sept. 26	2786	648	88	2293
Walker, James C., Waco, Tex. Pneumatic propulsion means	624,271	May 2	600	129	87	812
Walker, James C. Waco, Tex. Pneumatic propulsion means	630,821	Aug. 8	2047	462	88	1137
Walker, Joseph, assignor to H. Ferguson and D. MacRae, Belfast, Ireland. Hemstitch sewing-machine	634,970	Oct. 17	1825	432, 433	89	396
Walker, Kennedy, assignor to William Goodacre & Sons, Limited, London, England. Machine for weaving coir-yarn mats	630,954	Aug. 15	2285	519, 520, 521, 522	88	1206
Walker, Levi, Chatham, Canada. Piano-tuning pin	638,154	Nov. 28	4062	857	89	1826
Walker, Lucian B., assignor of one-half to L. N. Suydam, Glendora, Cal. Hand-truck	627,284	June 20	1961	432	87	2034
Walker, Luther M., Afton, Iowa. Grain-valve	624,712	May 9	1398	312	87	994
Walker, Oliver M., administrator. (See Conover, John.)						
Walker, Robert J. (See Walker, James B., assignor.)						
Walker, Robert J. F., assignor of one-half to A. B. Hellyar, Moorhead, Minn. Feed-board for roller-mills	636,873	Nov. 14	1227	265	89	1196

Alphabetical list of patentees—Continued.

Name, residence, and invention.	No.	Date.	Monthly volume.		Official Gazette.	
			Spec.	Dr'g.	Vol.	Page.
Walker, Samuel, Birmingham, England. Tubular joint	625,371	May 23	2588	589	87	1264
Walker, Scott, *et al.* (See Mason, William R., assignor.)						
Walker, Sylvenus, Boston, Mass. Blind-fastener	623,266	Apr. 18	1987	455	87	416
Walker-Taylor Company. (See Walker, Henry V., assignor.)						
Walker, Thomas S. (See Hays and Depuy, assignors.)						
Walker, William, Jr., *et al.* (See Lones, Joseph, assignor.)						
Walker, William H., New York, N. Y. Flower-holder	626,013	May 30	3807	865	87	1518
Walkins, Louis E., assignor of two-thirds to F. W. Dickinson, Springfield, Mass., and G. M. Jewett, Glenville, Md. Electric-railway system	625,223	May 16	2304	525	87	1185
Walkins, Louis E., Springfield, Mass., assignor of one-half to G. M. Jewett, Glenville, Md. Electric-railway system	625,281	May 16	2416	547	87	1205
Walkins, Louis E., Springfield, Mass., assignor of one-half to G. M. Jewett, Glenville, Md. Electric-railway system	625,282	May 16	2418	547 548	87	1205
Walkins, Louis E., Springfield, Mass., assignor of one-half to G. M. Jewett, Glenville, Md. Inverted-third-rail electric-railway system	625,283	May 16	2422	548	87	1206
Walkins, Louis E., assignor of one-fourth to F. W. Dickinson, Springfield, Mass. Electrically-operated gate-valve	631,263	Aug. 15	2860	645 646	88	1320
Walkinshaw, Hugh, Lebanon, Mo. Scissors	622,740	Apr. 11	1000	232	87	209
Walkmeyer, Henry F., *et al.* (See Harvey, William L., assignor.)						
Walkup, George O., Ryan, Iowa. Sod-line marker	630,142	Aug. 1	777	167	88	876
Wall, George A., Providence, R. I. Automatic circuit-closer	624,272	May 2	601	130	87	813
Wall, Henry D. (See Hawkins, William L., assignor.)						
Wall, John C., and M. E. Schedlbauer, Jr., Amsterdam, N. Y. Yarn-protector attachment for spinning-frames	628,875	July 11	1736	405	88	358
Wall, John J., and H. Rogalsky, Buhler, Kans. Computing-machine	632,074	Aug. 29	4344	976	88	1637
Wall, Patrick T. (See Doremus, Victor E., assignor.)						
Wall, William H., Nanaimo, Canada. Apparatus for handling coal	628,876	July 11	1738	405 406	88	358
Wallace, Casper D., Bridgeport, Conn., assignor to American Writing Machine Company, Ilion, N. Y. Type-writing machine	626,354	June 6	253	59 60 61 62	87	1663
Wallace, Charles C., London, England. Instrument for paring fruit, &c	628,683	July 11	1400	326	88	290
Wallace, Clifford L. (See Jordon and Wallace.)						
Wallace, Daniel B., Decatur, Ill. Ironing-board	634,741	Oct. 10	1422	335	89	300
Wallace, Franklin, Martin's Ferry, Ohio. Portable glory-hole furnace	640,052	Dec. 26	3437	790	89	2598
Wallace, Franklin D., Wheatland, Ind. Fire-alarm	618,526	Jan. 31	3190	705	86	683
Wallace, Horace M., *et al.* (See Westwood, John T., assignor.)						
Wallace, James, Sacramento, Cal. Continuous-spinning top	629,055	July 18	2064	481	88	439
Wallace, James E., Willock, Pa. Overshoe-holder	623,852	Apr. 25	3066	706	87	645
Wallace, John J., Oklahoma, Okla. Ter. Tube-bending machine	627,162	June 20	1752	384	87	1992
Wallace, John W., New York, N. Y. Ligature-receptacle	618,923	Feb. 7	198	42	86	843
Wallace, Joseph H. (See Tower and Wallace.)						
Wallace, Laird H., Ogden, Utah, assignor, by mesne assignments, to Gundlach Optical Company, Rochester, N. Y. Focusing attachment for cameras	622,574	Apr. 4	699	163	87	133
Wallace, Mahlon B. (See Weston, Edward B., assignor.)						
Wallace, Richard V., Marvell, Ark. Cattle-guard	627,552	June 27	2500	549	87	2157
Wallace, Robert, Midway, Ky., assignor of one-half to G. H. Dunham, Cincinnati, Ohio. Car	619,029	Feb. 7	446	94	86	897
Wallace, Robert F. (See Ewing, Joseph G., assignor.)						
Wallace, Thomas V., Monongahela City, Pa. Dump-car	621,186	Mar. 14	1215	266	86	1750
Wallace, Thomas V., Monongahela City, Pa. Protective pad for mules used in coal-mines, &c	625,714	May 23	3174	721	87	1380
Wallace, William R., Mount Vernon, Ill. Mining-drill	635,905	Oct. 31	3630	836 837	89	776
Wallace, William W., Mansfield, Ohio. Feeding device for self-binders	638,531	Dec. 5	655	136	89	1991
Wallach, Isaac. and C. W. Beerkircher, Philadelphia, Pa. Combined step-ladder and jack	622,831	Apr. 11	1163	269	87	239
Wallen, Andrew J. A., Marquette, Mich. Shoe-fastener	627,834	June 27	3013	658	87	2258
Wallen, Andrew K., Sr., Ottawa, Ill. Garbage-cabinet	623,642	Apr. 25	2658	608	87	566
Wallenthin, Walfred, Providence, R. I. Washboard	630,143	Aug. 1	779	168	88	877
Waller, Peter A , Kewanee, Ill. Corn-husker	631,913	Aug. 29	4038	905	88	1578
Wallerich, Nicholas, Fort Worth, Tex. Back-pedaling brake	635,704	Oct. 24	3217	741	89	683
Wallick, George W., Sturgis, Mich. Compound air-compressor	624,998	May 16	1916	430	87	1113
Wallin, Henrik, New York, N. Y. Screw-driver	624,999	May 16	1917	430	87	1113
Walling, James E. (See Long and Walling.)						
Walling, James H., *et al.* (See Boening, Ernest, assignor.)						
Walling, John W. (See Burch and Walling.)						
Wallis, Eustace F. (See Wallis, Percy and E. F.)						
Wallis, George H., San Francisco, Cal., assignor to Washburn & Moen Manufacturing Company, Worcester, Mass. Electrical tree	638,895	Dec. 12	1316	299	89	2143
Wallis, Percy and E. F., Kettering, England. Photographic shutter	627,027	June 13	1511	330	87	1925
Walls, Clarence V. (See Scheffler and Walls.)						
Walmsley, Ben. (See Clay and Walmsley.)						
Walmsley & Company. (See Strom, Axel A., assignor.)						
Walmsley, Robert W., New Orleans, La. Attachment for lamp-chimneys	638,302	Dec. 5	222	46	89	1909
Walquist, Frank W., G. Nelson, and J. L. Gronquist, New York, N. Y. Apparatus for shaping saw-teeth	639,472	Dec. 19	2381	548	89	2368
Walrath, Jesse, Racine, Wis. Explosive-engine	632,859	Sept. 12	1230	282 283	88	1967
Walsh, Alphonsus, *et al* (See Campbell, George L., assignor.)						
Walsh, Daniel H., Plaquemine, La. Cane-sling	620,519	Feb. 28	3103	710	86	1468
Walsh, Daniel H., Plaquemine, La. Cane carrier and feeder	628,877	July 11	1740	407	88	359
Walsh, Edward, Jr., St Louis, Mo. Window-opener	619,371	Feb. 14	1064	239	86	1037
Walsh, Edward F. (See Lang, Lincoln A., assignor.)						
Walsh, Edward M. and S B . Janvier, N. J. Making large articles from pieces of aventurin	629,973	Aug. 1	458	------	88	814
Walsh Globe Holding Company. (See Walsh, Thomas, assignor.)						
Walsh, James, Jr., Philadelphia, Pa. Nut-locking washer	634,382	Oct. 3	783	187	89	155
Walsh, James, and D. Shepherd, Denver, Colo. Pool-table	621,187	Mar. 14	1216	266	86	1750
Walsh, James A., assignor to Indiana Manufacturing Company, Indianapolis, Ind. Pneumatic stacker	638,191	Nov. 28	4131	873	89	1842
Walsh, James D., Otakia, New Zealand. Wire-strainer	624,273	May 2	602	130	87	813
Walsh, John E., New York, N. Y. Freight-delivery vessel	623,267	Apr. 18	1988	455 456	87	416
Walsh, John E., New York, N. Y. Coaling vessel	623,268	Apr. 18	1989	456	87	417
Walsh, John J., Yonkers, N. Y. Insulated handle for electrical apparatus	635,006	Oct. 17	1883	447	89	408

Alphabetical list of patentees—Continued.

Name, residence, and invention.	No.	Date.	Monthly volume. Spec.	Monthly volume. Dr'g.	Official Gazette. Vol.	Official Gazette. Page.
Walsh, Joseph A., Philadelphia, Pa. Combined time and percussion fuse	617,265	Jan. 3	761	178	86	150
Walsh, Margaret, New York, N. Y. Dish-heater	619,372	Feb. 14	1065	239	86	1038
Walsh, Ralph, Washington, D. C. Vaccine carrier and case	634,709	Oct. 10	1363	321	89	289
Walsh, Richard, assignor of one-third to T. D. Pickard, Chicago, Ill. Brake-shoe	623,584	Apr. 25	2558	587	87	548
Walsh, Richard, assignor of one-third to T. D. Pickard, Chicago, Ill. Brake-shoe. (Reissue)	11,746	June 6	798	182	87	1769
Walsh, Sydney B. (See Walsh, Edward M. and S. B.)						
Walsh, Thomas, New York, N. Y., assignor to Walsh Globe Holding Company, of West Virginia. Shade-support	620,685	Mar. 7	262	53	86	1553
Walsh, Thomas J., Walton, Ky. Signal-lamp-raising device	629,222	July 18	2362	548	88	495
Walsh, William D., and D. McArthur, Canyon Ferry, Mont. Bolt-extractor	627,028	June 13	1513	330	87	1926
Walsh, William J., Hamilton, Canada. Telephone number and address annunciator	632,297	Sept. 5	172	39	88	1741
Walsh, William J., assignor of two-thirds to G. M. Ryckman and M. H. Le Hane, Hamilton, Canada. Hot-water heater	622,575	Apr. 4	700	163	87	133
Walter, Anthony, Marion, Ohio. Drill-socket	624,274	May 2	604	130	87	813
Walter, Edward, assignor of one-half to J. R. Dempsey, Keytesville, Mo. Mail-bag catcher and deliverer	638,487	Dec. 5	577	119	89	1977
Walter, Eugen, Heilbronn, assignor to J. Zeltner-Dietz, Nüremberg, Germany. Stair-case-rule	634,782	Oct. 10	1482	349	89	311
Walter, Ferdinand C., and H. F. Repkow, Chicago, Ill. Pipe cutting and threading tool	619,643	Feb. 14	1549	353	86	1130
Walter, Franklin, assignor of two-fifths to H. C. Lange and G. Steacher, Albany, N. Y. Street-car fender	626,116	May 30	4025	919	87	1555
Walter, Franklin, assignor of nine-twentieths to H. C. Lange, G. Stecher, and C. Zautner, Albany, N. Y. Automatic street-railway switch	637,539	Nov. 21	2528	547	89	1464
Walter, Frederick A., Philadelphia, Pa. Sealed folding hollow body	618,628	Jan. 31	3365	749, 750	86	716
Walter, Freeman. (See Walter, William H. and F.)						
Walter, John, Savanna, Ill. Carbonating apparatus	633,057	Sept. 12	1580	368	88	2033
Walter, John, assignor of two-thirds to R. R. Foote, Jacksonville, Fla., and C. H. Morser, Norfolk, Va. Steam-cooker	640,053	Dec. 26	3439	790	89	2598
Walter, Theophiel P., Beatrice, Nebr. Corn-husker	634,923	Oct. 17	1734	411	89	377
Walter, William H. and F., Dallas City, Ill. Carriage-curtain-patch fastener	638,778	Dec. 12	1110	249	89	2104
Walters, Barney P. (See Ray, Walters, and Perkins.)						
Walters, Charles E., Akron, Ohio. Rubber vehicle-tire	627,607	June 27	2617	576	87	2180
Walters, Claude L., Stamford, Conn. Micrometer depth-gage	623,748	Apr. 25	2822	647	87	598
Walters, James M. H. and U. G. S., Pottstown, Pa. Press	639,797	Dec. 26	2983	686	89	2508
Walters, Julius W., New York, N. Y. Motor-wheel for vehicles	624,414	May 2	854	192	87	865
Walters, Julius W., New York, N. Y. Motor-wheel for vehicles	635,620	Oct. 24	3075	705, 706, 707	89	655
Walters, Loren B., W. H. Davis, and A. L. Hawkins, Georgetown, Tex. Acetylene-gas generator	640,054	Dec. 26	3441	791	89	2599
Walters, Samuel, Warren, Pa. Device for trimming lawns	619,644	Feb. 14	1552	353	86	1130
Walters, Ulysses G. S. (See Walters, James M. H. and U. G. S.)						
alther, Charles F., Buffalo, N. Y. Steam or hot-water radiator	629,223	July 18	2363	549	88	495
Walther, Herman. Bloomfield, Iowa. Pump	619,645	Feb. 14	1554	354	86	1131
Walton, Charles W., *et al.* (See Walton, William L., assignor.)						
Walton, David D. (See White, Leroy, assignor.)						
Walton, Edward, Penrith, Va. Knockdown barrel	618,924	Feb. 7	199	43	86	844
Walton, Edward, Penrith, Va. Slat-weaving machine	618,925	Feb. 7	204	44	86	844
Walton, Frederick, London, England. Apparatus for manufacturing mosaic floor-cloth	626,117	May 30	4026	919	87	1555
Walton, Frederick, London, England. Apparatus for manufacturing mosaic floor-cloth	629,280	July 18	2457	570	88	513
Walton, Frederick, London, England. Apparatus for manufacturing mosaic floor-cloth	629,281	July 18	2458	570, 571, 572	88	513
Walton, Jerrold F., Detroit, Mich. Adjustable chair	635,452	Oct. 24	2780	635	89	598
Walton, Jonathan, New York, N. Y. Broiling, roasting, or toasting device	634,224	Oct. 3	457	117	89	94
Walton, Matthew. (See Schlaepfer and Walton.)						
Walton, Thomas A., Scranton, Pa. Mask	626,799	June 13	1068	240	87	1839
Walton, William L., assignor to W. H. O'Brien, A. G. Torrance, and C. W. Walton, St. Louis, Mo. Collapsible chicken-coop	633,929	Sept. 26	3214	749	88	2380
Waltz, Henry E., Des Moines, Iowa. Paper-cutting machine	635,884	Oct. 31	3581	824	89	765
Waltz, Thomas, and W. Bell, Newton, Ill. Check-valve	628,999	July 18	1968	457	88	420
Walworth & Neville Manufacturing Company. (See Neville, Joseph C., assignor.)						
Walworth & Neville Manufacturing Company. (See Neville, Wilkinson D., assignor.)						
Walz, Charles J., assignor to Red Cross Hygienic Company, Chicago, Ill. Disinfecting apparatus	616,994	Jan. 3	245	56	86	49
Walzel, Gregor. (See Burlich and Walzel.)						
Wambold, Frederick A. (See Wambold, John N., assignor.)						
Wambold, John N., Sun Prairie, assignor of one-half to F. A. Wambold, Highland, Wis. Tobacco-booker	622,300	Apr. 4	187	40, 41	87	35
Wambsgans, Jacob, Peoria, Ill. Hinge-joint for artificial limbs	620,999	Mar. 14	870	189	86	1683
Wanderpepen, Georges, A. Van Berckelaer, and C. Byl, Brussels, Belgium. Gas-generator	624,275	May 2	605	130	87	813
Wandry, Albert, Fort Worth, Tex. Jewel-setting	635,826	Oct. 31	3474	798	89	745
Wands, John C., St. Louis, Mo. Bolster	624,276	May 2	606	131	87	813
Wands, John C., St. Louis, Mo. Brake-slack take-up	635,988	Oct. 31	3794	873, 874	89	808
Wands, John C., St. Louis, Mo. Brake-slack take-up	636,305	Nov. 7	134	29	89	948
Wands, John C., St. Louis, Mo. Brake-slack take-up	636,874	Nov. 14	1228	265	89	1196
Wands, John C., St. Louis, Mo. Extension push-bar and slack-adjuster for brake-rigging	639,798	Dec. 26	2987	687, 688	89	2508
Wang, Eistein G., Christiania, Norway. Projectile	620,387	Feb. 28	2897	664	86	1428
Wangelin, Friedrich, Dresden, Germany. Closing device for valves of water-cisterns	616,995	Jan. 3	246	57	86	49
Wankel, Frank, assignor of one-half to W. Geppert, New York, N. Y. Shutter-fastener	620,553	Feb. 28	3190	730	86	1484
Wanliss, William, Johannesburg, South African Republic. Rock-drill dressing and sharpening machine	631,914	Aug. 29	4039	906, 907	88	1578
Wanner, Charles A. (See Foley, Michael F. X., assignor.)						
Wanner, Louis, Jr., Philadelphia, Pa. Mud-catcher for filters	629,941	Aug. 1	390	84	88	799
Wanner, Louis, Jr., Philadelphia, Pa. Double filter	629,942	Aug. 1	392	84, 85, 86	88	800
Wanner, Martin, New York, N. Y. Closure for jars, bottles, or similar vessels	633,297	Sept. 19	2071	485	88	2141
Wanz, Franz. (See Wanz, Friedrich and F.)						
Wanz, Friedrich and F., Vienna, Austria-Hungary. Inhaling apparatus	629,833	Aug. 1	145	33, 34	88	749
Wanzer, Phebe C. (See Wanzer, William D., assignor.)						
Wanzer, William D., Clintondale, assignor to P. C. Wanzer, New York, N. Y. Apparatus for weighing, measuring, and delivering provisions	633,629	Sept. 26	2712	631, 632	88	2278

Alphabetical list of patentees—Continued.

Name, residence, and invention.	No.	Date.	Monthly volume.		Official Gazette.	
			Spec.	Drg.	Vol.	Page.
Wappler, Reinhold H., New York, N. Y. Medical pump	634,678	Oct. 10	1303	307	89	277
Wapshare, Richard, Moreton-Hampstead, England. Pneumatic tire	628,192	July 4	435	103	88	88
Warburton, Frank E., Pawtucket, R. I. Spool-box	633,404	Sept. 19	2291	538	88	2183
Warburton, Frank E., Pawtucket, R. I. Spool-box	637,435	Nov. 21	2338	505	89	1429
Warburton, William, Stockport, England. Composition of matter for use in extracting vegetable fibers	634,154	Oct. 3	317	------	89	66
Ward, Arthur, East Jordan, Mich. Hame-fastener	619,812	Feb. 21	1882	429	86	1220
Ward, Charles A., *et al.* (See Scoville, George L., assignor.)						
Ward, Daniel, assignor of one-half to W. J. Shannon, Peoria, Ill. Band-cutter and feeder	628,970	July 18	1914	445	88	409
Ward, David D., Austin, assignor to F. C. Austin, Chicago, Ill. Machine for drilling wells	617,894	Jan. 17	1988	444	86	427
Ward, David R., Newark, N. J., assignor of two-thirds to M. F. Elliot, New York, N. Y. Mechanical stoker	617,302	Jan. 3	835	195	86	164
Ward, Elmer E., Colorado Springs, Colo. Culinary steamer and boiler	639,473	Dec. 19	2382	549	89	2368
Ward, Elmer E., assignor of one-half to A. S. Blake, Colorado Springs, Colo. Trousers-guard	633,674	Sept. 26	2787	648	88	2294
Ward, Frank J., Ayer, Mass. Bicycle-support	619,646	Feb. 14	1555	354	86	1131
Ward, George C., Fort Worth, Tex. Collector's bill-book	623,449	Apr. 18	2305	528	87	482
Ward, George M., Newark, N. J. Street-cleaner	623,496	Apr. 18	2384	548	87	497
Ward, John W., Somerville, N. J. Nut-lock and rail-joint	620,812	Mar. 7	512	109	86	1602
Ward, Joseph T., and J. B. Curtis, Chicopee Falls, Mass. Safety device for cotton-beaters	631,140	Aug. 15	2631	596	88	1273
Ward, Joseph T., and J. B. Curtis, Chicopee Falls, Mass. Cover-locking device for cotton-beaters	633,930	Sept. 26	3216	749	88	2380
Ward, Joseph T., and J. B. Curtis, Chicopee Falls, Mass. Sliver-receiving can for cotton or other machines	637,436	Nov. 21	2339	505	89	1429
Ward, Lewis I., and E. B. Nelson, Cadiz, Ohio. Street washer and hydrant	618,753	Jan. 31	3590	801	86	762
Ward, Oscar, Jr., assignor of two-thirds to J. W. and E. M. Brammell, New Canton, Ill. Switch-thrower	620,813	Mar. 7	513	109	86	1602
Ward, Seth, Sr., Princeton, Ind. Back-band hook	631,190	Aug. 15	2714	614	88	1291
Ward, Thomas W., and H. W. Lash, Sheffield, England. Apparatus for breaking steel rails, billets, &c	622,174	Mar. 28	3048	690	86	2134
Ward, Thomas W., and H. W. Lash, Sheffield, England. Apparatus for breaking metal	623,853	Apr. 25	3067	706	87	645
Ward, Will H. (See St. Clair, Lawrence, assignor.)						
Wardell, John G., assignor of one-half to A. Miller, East Tawas, Mich. Rope-clamp	632,930	Sept. 12	1372	317	88	1992
Wardell, Winfield S., *et al.* (See Condit, George F., assignor.)						
Wardill, Charles A., Nanaimo, Canada. Bicycle-brake	629,056	July 18	2065	481	88	440
Wardlaw, Thomas D. (See Cliff and Wardlaw.)						
Wardwell, Claison S., New York, N. Y. Dental engine	624,137	May 2	354	73	87	767
Wardwell, Frank A., Methuen, Mass. Loom-picker	621,725	Mar. 21	2193	494	86	1952
Wardwell, Frank A., Methuen, Mass. Loom-picker	625,620	May 23	3019	687	87	1349
Ware, Albert L., Arlington, Mass. Door-holdback	635,621	Oct. 24	3079	707	89	656
Ware, Julia A., Salida, Colo. Fruit or vegetable press	625,224	May 16	2306	525	87	1186
Ware, William R. (See Penrose and Ware.)						
Warfel, Jacob, Erie, Pa. Roasting-pan	632,612	Sept. 5	726	167	88	1850
Warfield, Solomon D., Baltimore, Md. Street letter and package deposit box	625,819	May 30	3399	771, 772	87	1441
Waring, George E., Jr., Newport, R. I., assignor to Drainage Construction Company, Boston, Mass. Sewer-cleaning appliance	623,585	Apr. 25	2559	587	87	549
Waring Hat Manufacturing Company. (See Ryer, John A., assignor.)						
Waring, Pierre C., Yonkers, N. Y. Hat-making machine	628,878	July 11	1742	407	88	359
Waring, Pierre C., Yonkers, N. Y. Feeding and weighing machine	628,879	July 11	1744	408	88	359
Waring, Wilson, Sewaren, and J. E. Breckenridge, Woodbridge, N. J. Acid-proof bag for fertilizers	635,622	Oct. 24	3079	------	89	656
Warman, William A. (See Dicks and Warman.)						
Warmington, Henry J., London, England. Brake	629,483	July 25	2859	664	88	612
Warner, Adelbert J., Chicago, Ill. Knob	619,522	Feb. 14	1332	306	86	1090
Warner, Adelbert J., Chicago, Ill. Lock-case	619,523	Feb. 14	1333	306	86	1090
Warner, Adelbert J., Chicago, Ill. Lock	619,524	Feb. 14	1334	306	86	1090
Warner, Albert O., assignor to T. G. Aldrich, Denver, Colo. Valve for inflating pneumatic tires	628,617	July 11	1242	289	88	260
Warner, Augustus and P. B., Chicago, Ill. Syrup-bowl	621,188	Mar. 14	1218	266	86	1750
Warner, Benjamin W. (See Kithcart and Warner.)						
Warner, Carlton F., Ticonderoga, N. Y. Window-screen	636,015	Oct. 31	3842	883	89	817
Warner, Charles E., Waverly, Kans., assignor to E. F. Shellaberger, De Kalb, Ill. Wire-fabric machine	622,406	Apr. 4	354	83, 84, 85	87	66
Warner, Clarendon G., Holyoke, Mass. Lithographic-stone-surfacing machine	639,953	Dec. 26	3259	746, 747, 748	89	2562
Warner, Clarendon G., Holyoke, Mass. Lithographic-stone-surfacing wheel	639,954	Dec. 26	3267	748	89	2563
Warner, Clarendon G., Holyoke, Mass. Wet-working surfacing-wheel	639,955	Dec. 26	3269	748	89	2563
Warner, Daniel, Bronson, Mich. Mud-guard for vehicles	624,713	May 9	1400	313	87	995
Warner, Daniel, Bronson, Mich. Hub-attaching device	636,700	Nov. 7	849	189	89	1095
Warner, Ernest P., assignor to Western Electric Company, Chicago, Ill. Electric-arc lamp	621,876	Mar. 28	2484	555	86	2024
Warner, Ernest P., assignor to Western Electric Company, Chicago, Ill. Electric-arc lamp	636,875	Nov. 14	1231	266	89	1197
Warner, Ernest P., assignor to Western Electric Company, Chicago, Ill. Electric-arc lamp	638,430	Dec. 5	468	95, 96	89	1956
Warner, Frank E. (See Stanley and Warner.)						
Warner, George C., Great Barrington, Mass. Card or picture mount	618,449	Jan. 31	3049	674	86	656
Warner, George W., Freeport, Ill. Door-check	634,596	Oct. 10	1163	277	89	249
Warner, George W., Freeport, Ill. Wire-stretcher	639,876	Dec. 26	3112	716	89	2531
Warner, Harry M., Somerville, Mass. Railway signal-fusee	617,376	Jan. 10	996	229	86	213
Warner, Isaac M., assignor to E. Conley, Elkhart, Ind. Fence-post	621,000	Mar. 14	871	190	86	1683
Warner, Isaac M., assignor to E. Conley, Elkhart, Ind. Wire fence	625,526	May 23	2850	649	87	1316
Warner, Jasper P., deceased, Decatur, Mich.; R. P. Warner, administrator. Pneumatic tire	619,453	Feb. 14	1216	276	86	1066
Warner, John F. (See Whalen and Warner.)						
Warner Manufacturing Company. (See Osgood, John E., assignor.)						
Warner, Morris L. and W. D., Hudson, Mich. Gas-generator	630,955	Aug. 15	2293	522	88	1207
Warner, Paul B. (See Warner, Augustus and P. B.)						
Warner, Roe P., administrator. (See Warner, Jasper P.)						
Warner & Swasey. (See Swasey, Ambrose, assignor.)						
Warner & Swasey. (See Swasey and Allen, assignors.)						
Warner & Swasey. (See Swasey and Lucas, assignors.)						
Warner & Swasey. (See Warner and Lucas, assignors.)						
Warner, Willard D. (See Warner, Morris L. and W. D.)						
Warner, Worcester R., and H. M. Lucas, assignors to Warner & Swasey, Cleveland, Ohio. Lathe-tool	632,544	Sept. 5	629	147	88	1830

Alphabetical list of patentees—Continued.

Name, residence, and invention.	No.	Date.	Monthly volume.		Official Gazette.	
			Spec.	Dr'g.	Vol.	Page.
Warren, Alpheus F., assignor of one-half to E. E. Cassel, Butler, Ohio. Roller-bearing	627,029	June 13	1514	330	87	1926
Warren, Alva F., Providence, R. I. Gun-mount	638,857	Dec. 12	1246	281	89	2128
Warren, Alva F., Providence, R. I. Breech mechanism for rapid-fire guns	638,858	Dec. 12	1247	281, 282	89	2129
Warren, Charles, Wolf, Cal. Shaft-coupling	620,814	Mar. 7	514	109	86	1602
Warren & Co., S. D. (See Carmichael, Henry, assignor.)						
Warren, Garland S., High Point, Iowa. Wagon grain-board	630,956	Aug. 15	2294	522	88	1207
Warren, George E. (See Fowler and Warren.)						
Warren, Governor D. (See Booker and Warren.)						
Warren, John C. Menallen, Pa. Umbrella	620,815	Mar. 7	515	110	86	1603
Warren, John G., Gravesend, England. Golf-practicing apparatus	628,236	July 4	512	124	88	102
Warren, John H., Cleveland, Ohio. Gage-cock	618,527	Jan. 31	3190	705	86	683
Warren, John H., Cleveland, Ohio. Running-gear for vehicles	634,597	Oct. 10	1164	277	89	249
Warren, John J., Watertown, N. Y. Machine for winding paper	631,513	Aug. 22	3322	754, 755	88	1429
Warren Webster & Company. (See Leitch, Meredith, assignor.)						
Warren, William B., Peoria, Ill. Draft appliance for locomotive-boilers	625,225	May 16	2308	525	87	1186
Warren, William H. (See Cooper, Warren, and Mudge.)						
Warren, William P., Baker, Ill. Wheel-scraper	617,430	Jan. 10	1101	251	86	233
Warrick, John, Reading, assignor of thirty-seven fortieths to A. M. Marsden, London, England. Apparatus for advertising purposes	623,641	Apr. 25	2656	607, 608	87	565
Warring, Franklin B., assignor to Caton's Foundry and Machine Company, San José, Cal. Centrifugal pump	634,840	Oct. 10	1588	372	89	333
Warrington, Jesse, assignor of one-half to Nordyke & Marmon Company, Indianapolis, Ind. Bran-duster	620,860	Mar. 7	602	130, 131	86	1621
Warrington, Jesse, assignor of one-half to Nordyke & Marmon Company, Indianapolis, Ind. Machine for testing mill products	639,834	Dec. 26	3045	700, 701	89	2519
Warth, Nathaniel G., Indianapolis, Ind. Electrical device involving hermetically-incased conductors	621,001	Mar. 14	872	190	86	1683
Wartzenluft, Daniel L., Kutztown, Pa. Burglar-alarm	636,089	Oct. 31	4016	918	89	851
Warwick, Alfred E., assignor to E. F. Warwick, New York, N. Y. Faucet and attachment therefor	623,640	Apr. 25	2654	607	87	565
Warwick, Elizabeth, Chicago, Ill. Electric railway	638,155	Nov. 28	4064	857	89	1826
Warwick, Eugene F. (See Warwick, Alfred E., assignor.)						
Waschau, Fredrick W., assignor of one-fourth to J. U. Willeke, Medford, Oreg. Repeating-watch	621,002	Mar. 14	876	190, 191	86	1684
Wasek, Carl, Paterson, N. J. Propelling apparatus for boats	637,051	Nov. 14	1576	340	89	1265
Washburn, Edwin C., Minneapolis, Minn. Car-coupling	617,134	Jan. 3	529	126	86	104
Washburn, Edwin C., Minneapolis, Minn. Car-coupling	618,754	Jan. 31	3591	801, 802	86	762
Washburn, Edwin C., Minneapolis, Minn. Oil-box	626,740	June 13	952	216	87	1817
Washburn, Edwin C., Minneapolis, Minn. Draft-rigging	626,881	June 13	1263	277	87	1876
Washburn, Edwin M., Hillsdale, Mich. Furnace	619,852	Feb. 21	1958	444	86	1236
Washburn & Moen Manufacturing Company. (See Christensen, Peter T., assignor.)						
Washburn & Moen Manufacturing Company. (See Lenox, Edwin S., assignor.)						
Washburn & Moen Manufacturing Company. (See Wallis, George H., assignor.)						
Washburn, Robert, Harriston, Canada. Sash-lifter	639,321	Dec. 19	2085	479	89	2309
Washburn, Wickes, New York, N. Y. Fishing-reel	620,388	Feb. 28	2898	664	86	1429
Washburne, James V., assignor to Patent Button Company, Waterbury, Conn. Button	626,398	June 6	347	81	87	1681
Washburne, James V., assignor to Patent Button Company, Waterbury, Conn. Eyelet attachment for buttons	626,399	June 6	348	81	87	1681
Washington, Dixon E. (See Bradbury and Washington.)						
Washington, Fortune, Colchester, assignor of one-half to S. and A. Cuba, Tennessee, Ill. Coffee-pot attachment	624,584	May 9	1175	264	87	951
Washington, George, Brussels, Belgium, assignor, by mesne assignments, to Washington Lighting Company, of Maine. Hydrocarbon vapor or gas generator	619,059	Feb. 7	500	105	86	908
Washington, L. M., *et al.* (See Babb, Christopher C., assignor.)						
Washington Lighting Company. (See Washington, George, assignor.)						
Washington, William D., New York, N. Y. Sheet-piling	624,714	May 9	1401	313, 314	87	995
Washington, William D. H., New York, N. Y. Caisson and sinking same	633,298	Sept. 19	2072	485	88	2141
Wason, Leonard C. (See Gilbreth, Frank B., assignor.)						
Wassell, Ann I. (See Wassell, Edwin D., assignor.)						
Wassell, Edwin D., assignor to A. I. Wassell, Pittsburg, Pa. Annealing open-hearth or Bessemer steel	622,301	Apr. 4	188	41	87	35
Wassell, Edwin D., Pittsburg, Pa., assignor to A. I. Wassell. Metallic vehicle-wheel	625,000	May 16	1919	430	87	1114
Wasson, E. M., *et al.* (See Merritt, Edward H., assignor.)						
Wasson, W. A., *et al.* (See Merritt, Edward H., assignor.)						
Waterbury Battery Company. (See Schoenmehl, Charles B., assignor.)						
Waterbury Button Company. (See Goodwin, Charles H., assignor.)						
Waterbury Farrel Foundry and Machine Company. (See Rowbottom and Griggs, assignors.)						
Waterbury, Henry L., *et al.* (See Waterbury, Lester E., assignor.)						
Waterbury, Herbert B., Central Nassau, N. Y. String-clamping device	631,058	Aug. 15	2494	564	88	1247
Waterbury, Jonathan, assignor of one-half to H. Geiger, New York, N. Y. Antifriction-bearing	623,113	Apr. 11	1695	391	87	343
Waterbury, Lester E., Highland Station, Mich., assignor of two-thirds to H. L. and W. C. Waterbury, Chicago, Ill. Fence-post	619,030	Feb. 7	447	94	86	897
Waterbury Machine Company. (See Matteson, George F., assignor.)						
Waterbury Manufacturing Company. (See Perkins, Walter H., assignor.)						
Waterbury, Sherman A., New York, N. Y. Collar-button and cravat-holder	625,226	May 16	2309	526	87	1186
Waterbury, Walton C., *et al.* (See Waterbury, Lester E., assignor.)						
Waterbury, Walton C., La Grange, Ill. Metal wheel	626,254	June 6	64	15	87	1627
Waterer, Hosea, Philadelphia, Pa. Faucet for draining jardinières, &c	630,144	Aug. 1	779	168	88	877
Waterfield, John, assignor of two-thirds to W. Badcock and H. B. Edwards, London, England. Knitting-machine	627,786	June 27	2924	639, 640	87	2241
Waterfield, John, Providence, R. I., assignor of two-thirds to W. Badcock and H. B. Edwards, London, England. Knit fabric	627,945	June 27	3217	705	87	2302
Waterhouse, Addison G., and J. S. Forbes, assignors to Waterhouse-Forbes Co., Philadelphia, Pa. Apparatus for heating and sterilizing fluids	638,192	Nov. 28	4132	873	89	1842
Waterhouse, Edward P., St. Louis, Mo. Toy	617,665	Jan. 10	1523	346	86	316
Waterhouse-Forbes Co. (See Waterhouse and Forbes, assignors.)						
Wateridge, Frederick W., Shrewsbury, England. Case or box for transit of butter	625,862	May 30	3482	789	87	1457
Waterloo Manufacturing Company. (See Dobbin, Robert O., assignor.)						
Waterman, Arthur A., Boston, Mass. Fountain-pen	638,779	Dec. 12	1112	249	89	2104
Waterman, Arthur A., Arlington, assignor to R. Lockwood, Boston, Mass. Fountain-pen	619,701	Feb. 14	1656	380	86	1151
Waterman, Arthur A., Arlington, assignor to R. Lockwood, Boston, Mass. Fountain-pen	619,702	Feb. 14	1658	381	86	1151

Alphabetical list of patentees—Continued.

Name, residence, and invention.	No.	Date.	Monthly volume. Spec.	Monthly volume. Dr'g.	Official Gazette. Vol.	Official Gazette. Page.
Waterman, Arthur A., Arlington, and F. W. Stevens, Boston, assignors to R. Lockwood, Boston, Mass. Fountain-pen	633,538	Sept. 19	2502	589	88	2224
Waterman, Edwin R., and R. R. Morison; said Waterman assignor to P. S. Regnart, San Francisco, Cal. Air-heater	636,090	Oct. 31	4017	918	89	851
Waterman, Edwin R., and R. R. Morison; said Waterman assignor to P. S. Regnart, San Francisco, Cal. Fluid-heating apparatus	636,091	Oct. 31	4018	918	89	852
Waterman, Frank W., assignor to Waterman Spring Bottle Seal Company, Baltimore, Md. Bottle-stopper	617,975	Jan. 17	2121	475	86	453
Waterman, Ira, *et al.* (See Hoxie, George L., assignor.)						
Waterman, Lewis E., Moline, assignor to Emerson Manufacturing Company, Rockford, Ill. Wheeled plow	629,732	July 25	3302	771	88	698
Waterman, Lewis E., Moline, assignor to Emerson Manufacturing Company, Rockford, Ill. Wheeled plow	629,733	July 25	3302	771, 772	88	698
Waterman, Smith A. (See Smith, Hugh, assignor.)						
Waterman Spring Bottle Seal Company. (See Waterman, Frank W., assignor.)						
Waters, Alfred W., assignor of one-half to L. V. Dusseau, Toronto, Canada. Back-pedaling brake	623,497	Apr. 18	2387	549	87	497
Waters, Alfred W., assignor of one-half to L. V. Dusseau, Toronto, Canada. Handle-bar for cycles	627,163	June 20	1754	385	87	1992
Waters, Charles P., assignor of one-half to L. D. Hawley, Detroit, Mich. Car-door lock	629,974	Aug. 1	459	99	88	814
Waters, Frederick R., Ouray, Colo. Mining-hammer	624,883	May 9	1717	389	87	1057
Waters, George M., Moline, Ill. Boat	637,052	Nov. 14	1578	340, 341	89	1265
Waters, George W. (See Hartwell, Jacob E., assignor.)						
Waters, Henry, Bisbee, Ariz. Ter. Shoe-repairing jack	631,835	Aug. 29	3912	875	88	1554
Waters, John C. and R. C., Romley, Colo. Concentrator	632,075	Aug. 29	4346	977	88	1637
Waters, Louis. (See Brown, John D. C., assignor.)						
Waters, Richard C. (See Waters, John C. and R. C.)						
Waterson, Karl W. (See Wales and Waterson.)						
Waterstraat, William T., Chicago, Ill. Reversible window	627,164	June 20	1755	385	87	1993
Waterstraat, William T., Chicago, Ill. Reversible window	627,165	June 20	1757	385	87	1993
Watkins, Alfred E., Jersey City, N. J., assignor of seven-eighths to B. F. Seadler, New York, N. Y. Boot or shoe polishing machine	636,419	Nov. 7	319	72,73	89	985
Watkins, Alfred E., Jersey City, N. J., assignor of seven-eighths to B. F. Seadler, New York, N. Y. Coin-controlled mechanism	636,420	Nov. 7	326	74	89	987
Watkins, Alfred E., Jersey Cisy, N. J., assignor of seven-eighths to B. F. Seadler, New York, N. Y. Boot-blacking machine	636,421	Nov. 7	329	74	89	987
Watkins, Anastasie, *et al.* (See Boudreaux, Paul O. E., assignor.)						
Watkins, Cisero. (See Blanchard, Matthews, and Watkins.)						
Watkins, Edwin, Badaxe, Mich. Snap-hook	629,224	July 18	2364	549	88	496
Watkins, John T., Battle Creek, Mich. Wagon-gear	640,055	Dec. 26	3443	791	89	2599
Watkins, Orla H., assignor to Eldora Spring Manufacturing Company, Eldora, Iowa. Wagon end-gate	624,585	May 9	1176	264	87	951
Watkins, Samuel I., Doziers, Tenn. Baling-press	626,355	June 6	274	62	87	1667
Watson Automatic Seat Post Company. (See Crandall, Lyman E., assignor.)						
Watson, Calvin A., New York, N. Y. Indicator for duplicate whist	630,787	Aug. 8	1983	448	88	1123
Watson, Daniel, Argentine, Kans. Car-roof	639,322	Dec. 19	2085	480	89	2310
Watson, Edwin B., assignor to Foods Enrichment Syndicate, Limited, London, England. Manufacture of flour, &c	617,266	Jan. 3	763	------	86	150
Watson, Elwin F., Cascade, Mont. Horseshoeing-stall	630,276	Aug. 1	998	220	88	920
Watson, Frank C., Philadelphia, Pa. Card-exhibitor	618,548	Jan. 31	3227	716	86	690
Watson, Frank L., Chicago, Ill. Pipe-hanger	635,885	Oct. 31	3582	824	89	765
Watson, George M., Raymond, Ill. Attachment for barbers' hair-clippers	621,439	Mar. 21	1659	367	86	1848
Watson, George W., Boston, Mass., assignor to Electric Scale Company, Kittery, Me. Weighing and package-filling machine	633,253	Sept. 19	1990	467, 468, 469	88	2126
Watson, George W., Boston, Mass., assignor to Electric Scale Company, Kittery, Me. Weighing and package-filling machine	633,675	Sept. 26	2788	648, 649, 650	88	2294
Watson, Harry W., *et al.* (See Menzer, Frederick, assignor.)						
Watson, John G., Oswego, N. Y. Trousers-guard	628,193	July 4	436	104	88	88
Watson & McDaniel Company. (See Chapman, Joseph L., assignor.)						
Watson & McDaniel Company. (See Jennings, William C., assignor.)						
Watson, Nelson M., assignor to J. T. Wing, Detroit, Mich. Cutter for cutting metallic packing	622,906	Apr. 11	1305	300	87	266
Watson, Norris V., and J. K. Cavitt, Parnassus, Pa. Combination-tool	638,896	Dec. 12	1317	299	89	2143
Watson, Robert, and C. E. Stevenson, Nanaimo, Canada. Fire-escape	619,105	Feb. 7	580	124, 125	86	924
Watson, Robert S., Bay City, Mich. Valve for water-closets	621,549	Mar. 21	1879	416	86	1889
Watson, William, London, England. Bread-making machine	628,568	July 11	1169	273, 274	88	245
Watt, Henry C., *et al.* (See Sihley, Josiah, assignor.)						
Watt, Sern P., Chicago, Ill. Acetylene-gas generator	638,897	Dec. 12	1318	300	89	2143
Watt, Sern P., Chicago, Ill. Acetylene-gas-generating lamp	638,898	Dec. 12	1320	300	89	2144
Watt, William W., Leechhurg, Pa. Toy	617,209	Jan. 3	662	154	86	129
Watters, William J., and F. A. Gould, Chicago, Ill. Temporary binder	617,066	Jan. 3	400	98	86	78
Watterson, Sherman W. (See French, Alfred A., assignor.)						
Wattie, William, assignor to Crompton & Knowles Loom Works, Worcester, Mass. Loom	620,861	Mar. 7	604	131, 132	86	1621
Watts, Elmer A., and J. E. Hitch, assignors to T. J. Mudgett, Springfield, Ohio. Truck	618,629	Jan. 31	3368	750	86	717
Watts, George. (See Brown, Cornelius M., assignor.)						
Watts, Samuel C., Clearfield, Pa. Newspaper-file	630,145	Aug. 1	781	168	88	877
Watts, William T., and W. Storrs, Stalyhridge, England. Self-acting mule for spinning fibrous materials	618,259	Jan. 24	2681	593, 594	86	571
Wattson, Llewellyn J. (See Clark and Wattson.)						
Waugh, Daniel J., St. Louis, Mo. Window-sash	632,768	Sept. 12	1069	247	88	1934
Waugh, Daniel S., assignor of one-half to C. H. Shaw, Denver, Colo. Pneumatic tool	622,576	Apr. 4	703	164	87	134
Waugh, David M., Collins, Ind. Farm-gate	622,302	Apr. 4	189	41	87	35
Way, Frank. (See Damerell, Henry, assignor.)						
Way, George P., assignor of one-half to W. H. Seldon, Jr., Detroit, Mich. Ear-drum	628,051	July 4	167	35	88	34
Wayland, Frank, Newton, Mass. Cider-mill	637,188	Nov. 14	1858	400	89	1316
Wayland, Frank, Newton, Mass. Treating hides	638,369	Dec. 5	355	------	89	1934
Wayland, Frank, Kanona, N. Y. Machine for splitting hides	638,368	Dec. 5	353	74	89	1934
Wayland, James. (See Taylor, Herbert B., assignor.)						
Wayland, James, Newark, N. J. Railway-signal	627,245	June 20	1892	416	87	2020
Wayland, James, Newark, N. J. Generating electricity for cars, &c	627,246	June 20	1894	417, 418	87	2021
Wayland, James, Newark, N. J. Rail-joint	627,247	June 20	1897	418	87	2021

Alphabetical list of patentees—Continued.

Name, residence, and invention.	No.	Date.	Monthly volume. Spec.	Monthly volume. Dr'g.	Official Gazette. Vol.	Official Gazette. Page.
Wayman, Coleman H., Princeton, Mo. Cartridge-ejector for guns	631,349	Aug. 22	3010	683	88	1367
Waymoth, Augustine D. (See Waymoth, Charles H., assignor.)						
Waymoth, Charles H., assignor of one-half to A. D. Waymoth, Fitchburg, Mass. Annular cutter	632,604	Sept. 5	716	165	88	1848
Wayne, Herbert N., Newton, Mass., assignor to International Rubber Tire Company, Portland, Me. Pneumatic tire	622,303	Apr. 4	189	41	87	35
Wayne, Herbert N., Newton, Mass., assignor to International Rubber Tire Company, Portland, Me. Pneumatic tire	622,304	Apr. 4	191	42	87	36
Wayne Works. (See Schultz, Walter W., assignor.)						
Wear, Frank, Medford, Mass. Safety-tread	637,437	Nov. 21	2340	505	89	1429
Wear, Norman S. (See Pribble, Irvin, assignor.)						
Wearden, Thomas, assignor of one-half to E. Pennington, Manchester, England. Piercing and eyeleting machine	629,000	July 18	1969	458	88	421
Wearne, Richard L., assignor to Binghamton Washing Machine Company, Lestershire, N. Y. Washing-machine	630,146	Aug. 1	782	168, 169	88	877
Weatherhead, Edward H., Cleveland, Ohio. Combined hydraulic engine and pump	623,297	Apr. 18	2041	468, 469	87	427
Weatherhead, Edward H., Cleveland, Ohio. Fluid-pressure-regulating mechanism	637,980	Nov. 28	3710	781	89	1759
Weatherill, Henry G. (See Rouse, George W., assignor.)						
Weathers, James, Indianapolis, Ind. Sash-holder	623,749	Apr. 25	2824	647	87	598
Weatherwax, Walter S., Deming, N. Mex. Ter. Device for sealing punctures in pneumatic tires	636,369	Nov. 7	239	53	89	969
Weaver, A. M. (See Weaver, Charles M., assignor.)						
Weaver, Albert S., assignor of one-half to C. J. Nourie, Boston, Mass. Eyeglasses	636,595	Nov. 7	643	141	89	1052
Weaver, Charlie B., Hillsdale, Mich. Flexible metallic connection for train-pipes	638,532	Dec. 5	655	137	89	1991
Weaver, Charles H., and L. H. Houghton, Elkhart, Ind., assignors of one-fifth to G. S. Houghton, Chicago, Ill., and C. J. Donahue, Cleveland, Ohio. Flexible pipe-joint	622,305	Apr. 4	192	42	87	36
Weaver, Charles M., assignor of one-fourth to A. M. Weaver, Collinsville, Ala. Fastener for gates	618,305	Jan. 24	2764	612, 613	86	588
Weaver, Charles R. (See Hains and Weaver.)						
Weaver Clay and Coal Company. (See Weaver, George W., assignor.)						
Weaver, Frank S., Mount Holly N J Pocket-book	637,365	Nov. 21	2214	476	89	1403
Weaver, George W., assignor to Weaver Clay and Coal Company, Brazil, Ind. Terra-cotta or clay die	621,467	Mar. 21	1721	382	86	1860
Weaver, Henry M., assignor to Barr Cash and Package Carrier Company, Mansfield, Ohio. Store-service apparatus	626,255	June 6	66	15	87	1627
Weaver, Ira A., Des Moines, Iowa. Combined lifting-jack and wrench	634,548	Oct. 10	1086	258	89	234
Weaver, Isaac S. (See Hoffman, Henry M., assignor.)						
Weaver, John D., assignor of one-half to M. Shires, Spring Mills, Pa. Music-leaf turner	627,553	June 27	2501	550	87	2157
Weaver, Joseph C., Zanesville, Ind. Connector for choke-straps and breeching-straps	631,731	Aug. 22	3721	835	88	1506
Weaver, Joseph W. (See Brooks and Weaver.)						
Weaver, Palmer & Richmond. (See Clarke, George M., assignor.)						
Weaver, Robert H., Jersey City, N. J. Awning-frame	627,369	June 20	2151	473	87	2073
Weaver, William. (See Hart, John W., assignor.)						
Webb, David M. (See Moody, Edward, assignor.)						
Webb, Edward. (See Wilson and Webb.)						
Webb, George B., Westfield, N. J., assignor to Wyckoff, Seamans & Benedict, Ilion, N. Y. Type-writing machine	618,154	Jan. 24	2493	553	86	537
Webb, George B., assignor to F. J. Tinkham, New York, N. Y. Measuring-faucet	629,834	Aug. 1	146	34	88	750
Webb, George S., Aurora, assignor to G. H. Sanford and H. R. Pollow, Cook county, Ill. Handle-bar	627,030	June 13	1514	330	87	1926
Webb, Jehu C. (See Vandegrift and Webb.)						
Webb, John, Chicago, Ill. Box-folding machine	623,586	Apr. 25	2561	587, 588	87	549
Webb, Smith N., Detroit, Mich. Book-holding clamp for indexing purposes	617,787	Jan. 17	1778	399	86	384
Webb, William A., Cincinnati, Ohio. Temporary binder	628,134	July 4	335	80	88	68
Webb, William G., and J. V. Price, Gnadenhutten, Ohio. Acetylene-gas generator	621,003	Mar. 14	883	191, 192	86	1685
Webb, William H., Wildwood, Mich. Whiffletree	633,330	Sept. 19	2151	504	88	2157
Webb, Wilmer M., Chicago, Ill. Sign	626,256	June 6	67	15	87	1627
Webber, Benton T., Cleveland, Ohio. Pie rack and case	636,596	Nov. 7	644	142	89	1052
Webber, George S., Chicago, Ill. Combined cash-register and calendar	623,587	Apr. 25	2571	588	87	551
Webber, George S., Chicago, Ill. Shoe-fastener	624,586	May 9	1178	265	87	951
Webber, George S., Chicago, Ill. Shoe-fastener	624,587	May 9	1179	265	87	951
Webber, Hollis A. (See Sumner and Webber.)						
Webber, Walter S., Boston, Mass. Furniture or express wagon	630,147	Aug. 1	783	169	88	877
Webber, William O. (See O'Keefe, Daniel, assignor.)						
Weber, Aaron M., Oshkosh, Wis. Skirt-binder	632,382	Sept. 5	320	72	88	1770
Weber, Aaron M., Oshkosh, Wis. Dress binding and facing	632,383	Sept. 5	321	72	88	1770
Weber, Aaron M., Oshkosh, Wis. Edge-protector for garments	633,496	Sept. 19	2435	573	88	2211
Weber, Aaron M., Oshkosh, Wis., assignor to C. E. Hertlein, New York, N. Y. Edge-protector for garments	638,193	Nov. 28	4135	873	89	1843
Weber, Carl O., Salford, and C. F. Cross, London, assignors to I. Frankenburg, Salford, England. Making cellulose tetracetate	627,031	June 13	1516	------	87	1927
Weber, Carl O., Manchester, and C. F. Cross, London, assignors to I. Frankenburg, Salford, England. Making cellulose esters	632,605	Sept. 5	718	------	88	1848
Weber, Frank, Louisville, Ky. Cart	623,643	Apr. 25	2659	608	87	566
Weber, Franz, Erfurt, Germany. Folding clothes-suspender	624,415	May 2	857	193	87	865
Weber, Frederick C., New York, N. Y. Cart	635,623	Oct. 24	3080	707	89	656
Weber, George A., New York, N. Y. Rail-joint	634,924	Oct. 17	1735	411, 412	89	377
Weber, George F., New York, N. Y. Pleasure-wheel	625,074	May 16	2048	460	87	1137
Weber, George W. (See Thiem, Edward A., assignor.) (Reissue.)						
Weber, Gustav A., Monticello, Iowa. Clothes-line fastener	639,638	Dec. 19	2672	613	89	2428
Weber, Herman A., Pittsburg, Pa. Car-coupling	638,780	Dec. 12	1114	249	89	2104
Weber, Marinus, Adelaide, South Australia. Dry-ore stamp	617,824	Jan. 17	1854	414	86	400
Weber, Valentine, Peoria, Ill. Bicycle-gearing	634,252	Oct. 3	528	134	89	106
Webley, Thomas W., Birmingham, England. Bullet	634,383	Oct. 3	784	187	89	155
Webster, Allen, Springfield, Mass. Hand-grenade for fire-extinguishing purposes	638,781	Dec. 12	1115	249	89	2104
Webster, Camp & Lane Machine Company. (See Hulett, George H., assignor.)						
Webster, Charles A. (See Boma, John, assignor.)						
Webster, Frederick E., Clarendon, Ark. Dental handpiece	636,476	Nov. 7	421	93	89	1006
Webster, Harold A., assignor of one-half to H. B. Newton, Haverhill, Mass. Edge setting or burnishing machine	631,865	Aug. 29	3962	886	88	1564
Webster, Joseph S., Herndon, Va. Music-leaf turner	619,853	Feb. 21	1960	445	86	1236
Wechsler, Frederick A., J. T. Leinberger, and J. G. Schmidt, West Bay City, Mich.; said Wechsler assignor to said Leinberger and Schmidt. Sugar-beet plow	638,303	Dec. 5	223	46	89	1909

Alphabetical list of patentees—Continued.

Name, residence, and invention.	No.	Date.	Monthly volume. Spec.	Monthly volume. Dr'g.	Official Gazette. Vol.	Official Gazette. Page.
Wecht, Louis A., *et al.* (See Wilke, Ferdinand, assignor.)						
Weed, Elmer E., *et al.* (See Durham and Devine, assignors.)						
Weed, Katherine J. (See Kelly, William E., assignor.)						
Weed, Leroy W., Ionia, Mich. Railway-crossing gate	632,976	Sept. 12	1444	335	88	2006
Weed, Royal P., Lanark, Ill. Washing-machine	622,907	Apr. 11	1306	300	87	266
Weegar, William I., New York, N. Y. Battle-ship	625,130	May 16	2159	489	87	1157
Weekes, McCarthy & Co., *et al.* (See Griffin, Thomas J., assignor.) (Reissue.)						
Weekes, N., *et al.* (See Griffin, Thomas J., assignor.) (Reissue.)						
Weeks, Charles S. (See Manville and Weeks.)						
Weeks, Curran C., assignor of one-half to N. B. Latimer, Chicago, Ill. Belt	628,901	July 11	1793	418	88	369
Weeks, John, assignor to W. M. Dudgeon, New York, N. Y., executor of R. Dudgeon, deceased. Hydraulic jack	617,135	Jan. 3	533	127	86	104
Weeks, John, assignor of three-fourths to J. H. Morch, New York, N. Y. Pen	625,995	May 30	3730	845	87	1504
Weeks, John W., assignor to Rhode Island Oil Fuel Burner Company, Providence, R. I. Gas or vapor generator and burner	635,624	Oct. 24	3082	708	89	656
Weeks, Joseph H., Battle Creek, Mich. Display-box	623,054	Apr. 11	1558	360	87	318
Weeks, William H., Philadelphia, Pa. Machine for coating confectionery	634,633	Oct. 10	1222	290, 291	89	260
Weeks, William H., Philadelphia, Pa. Charging mechanism for coating confectionery	637,053	Nov. 14	1580	341	89	1266
Weeks, William R. (See Johnson, James H., assignor.)						
Wees, James L., Oreana, Idaho. Concentrating-amalgamator	632,032	Aug. 29	4262	958	88	1622
Wegener, Carl, Berlin, Germany. Furnace for consuming refuse	633,299	Sept. 19	2073	486	88	2141
Wegener, Carl, Berlin, Germany. Furnace for burning refuse	633,300	Sept. 19	2075	486	88	2142
Wegener, Carl, Berlin, Germany. Furnace for consuming household refuse, &c	633,301	Sept. 19	2075	486	88	2142
Wegeng, Paul A., Philo, Ill. Terret	638,533	Dec. 5	657	137	89	1991
Wegerdt, Frederick R., Brookline, Mass. Composition for cleaning and polishing furniture	618,592	Jan. 31	3305	------	86	705
Weibel, Samuel, Larimer, Pa. Nut-lock	619,854	Feb. 21	1962	445	86	1237
Weibezahl, Herman G., New York, N. Y. Feed-bag	633,676	Sept. 26	2795	651	88	2295
Weichelt, Charles L., Philadelphia, Pa. Textile-clamp	619,031	Feb. 7	449	94	86	897
Weichelt, Charles L., Philadelphia, Pa. Textile-clamp	633,630	Sept. 26	2716	632	88	2278
Weichmann, Johann, Munich, Germany. Inhaling apparatus	637,950	Nov. 28	3653	767	89	1748
Weidemeyer, Johann M. F., Kiel, Germany. Scissors, shears, &c	619,373	Feb. 14	1067	239	86	1038
Weidmann, Jacob, Paterson, N. J. Filter	625,001	May 16	1921	431	87	1114
Weidmüller, Carl R., Chemnitz, Germany. Button for gloves	632,606	Sept. 5	719	166	88	1849
Weidner, Johann, assignor to Gebrüder Baumann Firma Joh. Baumann's Wwe., Amberg, Germany. Device for pinching in parts of vessels	624,588	May 9	1180	265	87	952
Weigand, John B., assignor of one-fourth to F. A. Strupp, Athens, Wis. Voting-machine	630,148	Aug. 1	784	169, 170	88	878
Weigel, John, Cincinnati, Ohio. Convertible handle and guard-bar for street-cars	621,004	Mar. 14	885	192	86	1685
Weighton, Robert L., Newcastle-upon-Tyne, and D. B. Morison, Hartlepool, England. Engine having two or more cylinders	617,620	Jan. 10	1439	328	86	299
Weiglein, Michael C. (See Smith and Weiglein.)						
Weihe, Charles L., New Minden, Ill. Rotary engine	623,750	Apr. 25	2825	647	87	598
Weil, August J., New York, N. Y. Car-axle bearing	628,971	July 18	1915	446	88	410
Weil, Henry, New York, N. Y. Non-refillable bottle	626,741	June 13	953	216	87	1817
Weil, Hugo, assignor to Society of Chemical Industry in Basle, Basle, Switzerland. Green wool-dye and making same	623,346	Apr. 18	2128	------	87	445
Weimar, Andrew, Philadelphia, Pa., assignor of one-half to Krout & Fite Manufacturing Company, Philadelphia, Pa., and Camden, N. J. Knitting-machine	627,083	June 13	1604	350, 351	87	1943
Weimer, Robert E., and A. H. Kirkland, Boston, Pa. Cuspidor	618,306	Jan. 24	2767	613	86	589
Weinberg, Aaron, Manning, S. C. Cord-ball holder	631,141	Aug. 15	2633	596	88	1274
Weiner. Carl C., *et al.* (See Bachmann and Vogt, assignors.)						
Weingaertner, Albert, and J. L. Shumate, assignors to Simplex Revolving Sash Company, St. Louis, Mo. Swinging window-sash	634,384	Oct. 3	785	188	89	156
Weingartner, Anton E., South Bethlehem, Pa. Oscillating motor	631,685	Aug. 22	3625	817	88	1490
Weinhart Heating Company. (See Weinhart, Theodore, assignor.)						
Weinhart, Theodore, assignor to Weinhart Heating Company, Boone, Iowa. Stovepipe attachment and water-heater	625,911	May 30	3573	811	87	1473
Weinman, William N., Columbus, Ohio. Steam-actuated valve for engines	632,931	Sept. 12	1373	317	88	1992
Weiper, Henry B., Durand, Wis. Pole or thill coupling	621,626	Mar. 21	1998	445, 446	86	1913
Weir Filter Company. (See Metcalf, Bryce, assignor.)						
Weir Frog Company. (See Partington, Charles, assignor.)						
Weir, Levi C., executor. (See Harden, Edward W., assignor.)						
Weir, Robert A., *et al.* (See Nichols, Lewis N., assignor.)						
Weir, William, Colfax, Cal. Filter	637,686	Nov. 21	3172	658	89	1631
Weir, Worthy D., Gilmore City, Iowa. Portable and transformable hoisting-machine, &c	634,925	Oct. 17	1736	412	89	377
Weise, Gustav, assignor of one-half to G. Nalder, Lake Lalbert, Victoria. Rail-securing tie or sleeper for permanent ways	628,376	July 4	801	186	88	154
Weise, Otto, Aschersleben, Germany. Mechanical movement	627,554	June 27	2504	550	87	2157
Weisenborn, George P. A., Attica, Ind. Fence-machine	635,365	Oct. 24	2564	596	89	555
Weishampel, Robert C., and F. K. Duncan, Baltimore, Md. Beam-compass	619,813	Feb. 21	1883	429	86	1220
Weisheit, Edward A., assignor to Winchester Repeating Arms Company, New Haven, Conn. Extractor-detent for firearms	617,943	Jan. 17	2069	464	86	444
Weiss, Christian. (See Klay, Andrew, assignor.)						
Weiss, Edward W. and N., Penbrook, Pa. Hook and eye	621,190	Mar. 14	1221	268	86	1751
Weiss, Ernest. (See Alma and Weiss.)						
Weiss, Franz J., Basle, Switzerland. Automatic feeding device for boilers	623,229	Apr. 18	1909	438	87	401
Weiss, Georg, Chicago, Ill. Molding-machine	621,189	Mar. 14	1219	267	86	1750
Weiss, George F., Springfield, Ill. Coal-drill	626,014	May 30	3807	866	87	1518
Weiss, Herman, New York, N. Y. Suspender-buckle loop	627,370	June 20	2152	474	87	2073
Weiss, Julius H., Paris, France, assignor, by mesne assignments, to Willner Wood Company, of New Jersey. Producing imitation carvings in wood	632,433	Sept. 5	398	91	88	1786
Weiss, Leopold, and A. B. Frauenhar, New York, N. Y. Sad-iron holder	623,055	Apr. 11	1559	360	87	318
Weiss, Nathan, and F. J. Hagen, New York, N. Y. Cigar-branding machine	628,151	July 4	364	86, 87	88	74
Weiss, Nettie. (See Weiss, Edward W. and N.)						
Weiss, Romain. (See Thal and Weiss.)						
Weiss, Rudolph. (See Hill and Weiss.)						
Weiss, William B., Doylestown, Pa. Car-replacer	626,400	June 6	349	81	87	1681
Weissenthanner, Alfred L., New York, N. Y., assignor to Phoenix Cap Company, of New York. Hermetic closure for jars	620,623	Mar. 7	137	27	86	1528
Weissenthanner, Alfred L., New York, N. Y., assignor to Phoenix Cap Company, of New York. Machine for closing jars	620,624	Mar. 7	138	28	86	1529
Weissenthanner, Alfred L., assignor to Phoenix Cap Company, New York, N. Y. Closure for jars, bottles, &c	637,981	Nov. 28	3712	781	89	1759
Weissgerber, Paul, Lauterbach, Germany. Pipette	620,066	Feb. 21	2327	529	86	1304

Alphabetical list of patentees—Continued.

Name, residence, and invention.	No.	Date.	Monthly volume. Spec.	Monthly volume. Dr'g.	Official Gazette. Vol.	Official Gazette. Page.
Weissmann, Anton, Berlin, Germany. Notice and advertisement apparatus	639,799	Dec. 26	2990	688	89	2509
Weisz, Albert R., New York, N. Y. Screw-propeller	633,171	Sept. 19	1836	432	88	2095
Weitling, William W., New York, N. Y. Atomizer	630,277	Aug. 1	999	220	88	920
Weitzel, Isaac N., Rochester, N. Y. Pen-wiper	626,197	May 30	4190	952	87	1588
Weixler, Mathias, Louisville, Ky. Stove or oven door lifter	639,118	Dec. 12	1706	393	89	2219
Welborn, Wayne C. (See Wellborn, John H., assignor.)						
Welch, Abraham T., Washington, D. C. Steam-pressure generator	634,841	Oct. 10	1589	373	89	333
Welch, Abraham T., Baltimore, Md. Centrifugal machine	636,016	Oct. 31	3844	884	89	818
Welch, Alvadore. (See Hanthorn and Welch.)						
Welch, B. Harvey, *et al.* (See Campbell, George L., assignor.)						
Welch, E. Baker, *et al.* (See Robinson, Thomas C., assignor.) (Reissue.)						
Welch, Everett C., and A. F. Dickey assignors of one-half to O. P. Shaver and H. Stahl, Friedens, Pa. Cultivator attachment	622,093	Mar. 28	2884	650	86	2101
Welch, James. (See Taylor, Abijah, assignor.)						
Welch, James H. (See Garrett and Welch.)						
Welch, James H., Washington, D. C., assignor to R. F. Irish, Boston, Mass. Soap-holder	622,873	Apr. 11	1253	290	87	257
Welch, James M. (See Bass and Welch.)						
Welch, James M., Looneyville, W. Va. Hand-planter	633,331	Sept. 19	2152	504	88	2157
Welch, John A., Austin, Mo. Gate	636,092	Oct. 31	4019	918	89	852
Welch, Marion E., Portland, Oreg. Book-support	632,384	Sept. 5	321	72	88	1770
Welch, Michael I., Cordele, assignor of two-thirds to S. T. Barnett, Atlanta, Ga. Car-coupling	634,783	Oct. 10	1484	349	89	311
Welch, Samuel F., assignor to Western Wheeled Scraper Company, Aurora, Ill. Elevating-grader	619,374	Feb. 14	1067	240 241	86	1038
Welch, Samuel F., assignor to Western Wheeled Scraper Company, Aurora, Ill. Combined sand-cap and axle-collar	628,972	July 18	1916	446	88	410
Welch, Sarah. (See Welch, Thomas G. and S.)						
Welch, Thomas F., Southington, Conn. Paper-fastener	617,453	Jan. 10	1140	260	86	240
Welch, Thomas G. and S., Pendleton, Ind. Head-rest for chairs	638,534	Dec. 5	658	137	89	1992
Welch, Thomas J., Salem, Mo. Combined whip-socket and rein-holder	621,877	Mar. 28	2487	555	86	2025
Welch, Victor J. (See Cornish, Harry B., assignor.)						
Welch, William H. I., London, England. Signal-lantern	631,686	Aug. 22	3626	817	88	1490
Welchaus, Albert C. (See Russell and Welchaus.)						
Welcker, Armand J., *et al.* (See Hinson, Benoni T., assignor.)						
Weld, George A., Winchester, Mass. Lacing-hook	624,138	May 2	354	73	87	767
Welden, Reuben H., Montreal, Canada. Trainman's lamp-handling appliance	634,419	Oct. 3	845	204	89	169
Weldon, William G., and E. L. Egger, Centralia, Ill. Choke-valve feed for lubricators	628,880	July 11	1746	408	88	360
Welin, Peter, Worcester, Mass. Take-up spool and raceway for mechanical musical instruments	637,540	Nov. 21	2529	548	89	1464
Wellborn, John H., Agricultural College, Miss., assignor of one-half to W. C. Welborn. Slate-cleaner	623,056	Apr. 11	1560	360	87	319
Weller, Albert, assignor to Vereinigte Chininfabriken, Zimmer & Co., Gesellschaft mit Beschränkter Haftung, Frankfort-on-the-Main, Germany. Carbonic esters of cinchona alkaloids and making same	625,075	May 16	2049	------	87	1137
Weller, Albert, assignor to Vereinigte Chininfabriken, Zimmer & Co., Gesellschaft mit Beschränkter Haftung, Frankfort-on-the-Main, Germany. Tasteless quinin compound	637,839	Nov. 28	3446	------	89	1707
Weller, Charles, Mount Pulaski, Ill. Valve-gear	635,625	Oct. 24	3086	708	89	657
Weller, Franklin A., assignor of one-half to J. Histon, Philmont, N. Y. Machine for turning and cutting tubular fabrics	622,741	Apr. 11	1001	233 234	87	209
Weller, Samuel H., Butte, Mont. Bicycle-gearing	635,453	Oct. 24	2781	635	89	598
Welling, Alvin, and L. Fritz, Covington, Ky. Siphon-head	620,389	Feb. 28	2899	664	86	1429
Wellington, Frank E., Worcester, assignor to C. Safford, Somerville, and C. M. Fowler, Lowell, Mass. Device for printing on lead-pencils	630,149	Aug. 1	789	170	88	879
Wellington, Frank E., Worcester, Mass., assignor, by mesne assignments, to Adams Manufacturing Company, Pittsfield, N. H. Hand printing device	637,220	Nov. 14	1924	412	89	1330
Wellington, George, Emerson, Nebr. Grain-cleaner	629,407	July 25	2709	630	88	584
Wellington, John T. (See Stewart, McElmer, assignor.)						
Wellman, Charles H. (See Wellman, Samuel T. and C. H.)						
Wellman, Charles H. (See Wellman, Seaver, and Wellman.)						
Wellman, Harlan P., Ashland, Ky. Electric headlight-lamp	617,621	Jan. 10	1441	329	86	300
Wellman, Harlan P., Ashland, Ky. Electric headlight-lamp	629,631	July 25	3127	727 728	88	664
Wellman, Harlan P., Ashland, Ky. Electric headlight-lamp	630,475	Aug. 8	1448	323 324	88	1019
Wellman, Samuel T. and C. H., assignors to Wellman-Seaver Engineering Company, Cleveland, Ohio. Apparatus for casting and heating ingots	627,835	June 27	3014	658 659	87	2259
Wellman, Samuel T., J. W. Seaver, and C. H. Wellman, Cleveland, Ohio. Blast-furnace-charging apparatus	623,854	Apr. 25	3068	706 707	87	645
Wellman-Seaver Engineering Company. (See Babcock, Washington I., assignor.)						
Wellman-Seaver Engineering Company. (See Wellman, Samuel T. and C. H., assignors.)						
Wellmann, Louis P., Taurus, N. J. Ratchet mechanism	631,866	Aug. 29	3963	886	88	1564
Wells, Abel W., *et al.* (See Jackson, William, assignor.)						
Wells, Albert E., assignor of one-half to C. A. Cornell and W. J. Baughman, Pittsfield, Mass. Electric switch	632,076	Aug. 29	4348	977	88	1638
Wells, Alfred G., London, England. Grinding-mill	624,139	May 2	355	73, 74	87	768
Wells, Alfred G., London, England. Furnace for treating ores	625,912	May 30	3574	811	87	1473
Wells Automatic Skimmer Company. (See Wells, George, assignor.)						
Wells, Frank E., Columbus, Ohio. Pipe threading and cutting machine	623,450	Apr. 18	2307	528	87	482
Wells, Frederic E., Greenfield, Mass. Die for cutting screw-threads	632,977	Sept. 12	1446	335	88	2006
Wells, George, assignor to Wells Automatic Skimmer Company, South Norwalk, Conn. Strainer for hat-sizing tanks	630,429	Aug. 8	1360	304	88	1002
Wells, George F., Philadelphia, Pa. Tailpiece for stringed musical instruments	617,915	Jan. 17	2030	454	86	434
Wells, Harlan P. (See Morrill and Wells.)						
Wells, Harlan P., and O. Morrill, Amesbury, Mass. Fifth-wheel for vehicles	620,625	Mar. 7	140	28, 29	86	1529
Wells, Harlan P., and O. Morrill, Amesbury, Mass. Axle and axle-box	635,066	Oct. 17	1994	472	89	430
Wells, Harlan P., and O. Morrill, Amesbury, Mass. Axle and axle-box	636,876	Nov. 14	1233	267	89	1197
Wells, John, *et al.* (See Mitchell, Michael, assignor.)						
Wells, John T., Paterson, N. J. Compound or detachable gear for bicycles	620,390	Feb. 28	2900	664	86	1429
Wells, John V., Wilmerding, Pa. Triple valve	620,201	Feb. 28	2580	586 587	86	1366
Wells, John V., Wilmerding, Pa. Engineer's brake-valve	621,590	Mar. 21	1939	434	86	1901
Wells, Wallace H., Brasher Falls, N. Y. Lamp-shade	631,059	Aug. 15	2495	565	88	1247
Wells, William H., Seville, assignor of one-half to R. L. Sowers, Charlotte, Mich. Clevis for whiffletrees	634,926	Oct. 17	1738	412	89	378
Wellsteed, William H., Brompton, Mich. Feed-trough	634,927	Oct. 17	1739	413	89	378

Alphabetical list of patentees—Continued.

Name, residence, and invention.	No.	Date.	Monthly volume. Spec.	Monthly volume. Dr'g.	Official Gazette. Vol.	Official Gazette. Page.
Welp, Joseph. (See Lillpop, Jesse M., assignor.)						
Welsbach Light Company. (See Barrows, George S., assignor.)						
Welsbach Light Company. (See White, Charles E., assignor.)						
Welsch, John B., Lincoln, Nebr. Threshing-machine	631,514	Aug. 22	3324	755	88	1429
Welsh, David, assignor of two-thirds to W. Rushton, Providence, R. I. Lustering-machine	624,884	May 9	1718	389	87	1057
Welsh, Frank R., Philadelphia, Pa. Loose-leaf binder	634,516	Oct. 10	1023	244	89	222
Welsh, George, Providence, R. I. Cabinet	631,836	Aug. 29	3913	875	88	1554
Welstead, John J., New York, N. Y. Pneumatic pipe-testing plug	620,520	Feb. 28	3104	710	86	1468
Welta, Mauritz H. (See Ostad and Welta.)						
Welty, Mason R., Hunkers, Pa. Machine for grinding plate-glass	637,306	Nov. 21	2099	451, 452	89	1380
Welty, Mason R., Hunkers, Pa. Machine for grinding and polishing plate-glass	639,323	Dec. 19	2088	480	89	2310
Welty, Rufus W., San Francisco, Cal. Combined steamer and boiler	639,474	Dec. 19	2386	549	89	2369
Welz, Valentine, Trenton, Ill. Leveling device for billiard-tables	622,028	Mar. 28	2779	627	86	2080
Wemple, George W., Boston, Mass. Bowling-alley	627,712	June 27	2799	613	87	2216
Wende, Ernest, *et al.* (See Richardson, Julius C., assignor.)						
Wendell, Menzo E., Troy, and T. S. Wiles, Albany, N. Y. Dampening-machine. (Reissue)	11,727	Mar. 21	2304	518	86	1973
Wendler, William, Jr., Syracuse, N. Y. Cycle-support	623,298	Apr. 18	2043	469	87	427
Wendling, George X., and O. W. Crawford, San Francisco, Cal. Lumber-drier	637,307	Nov. 21	2101	452	89	1380
Wendling, George X., and O. W. Crawford, San Francisco, Cal. Lumber-drying truck	637,308	Nov. 21	2102	452, 453	89	1380
Wendorff, Henry J., New York, N. Y. Delivery apparatus for paper-rolls	628,257	July 4	573	137	88	112
Wendt, Fred H., Marshfield, Wis. Car-coupling	639,324	Dec. 19	2090	481	89	2310
Wendt, Gustav, Stolberg, Germany. Composition of casein with lithium salts	617,210	Jan. 3	663	------	86	129
Wendt, Gustav, and J. Lehmann, Berlin, Germany. Making sulfo-acids of aliphatic creosotesters	628,881	July 11	1748	------	88	360
Wendt, Wilhelm, Berlin, Germany. Type-writing machine	627,218	June 20	1842	403	87	2010
Wendtland, August, Berlin, Germany. Removing green color from paraffin	618,307	Jan. 24	2768	------	86	589
Wenges, Jonas G. (See Thompson, Robert A., assignor.)						
Wenig, Ferdinand. (See Berg, Rudolf, assignor.)						
Wenrich, Daniel K., Joplin, Mo., assignor of one-fourth to F. D. Hummer, Perry, Okla. Ter. Type-writer attachment	622,789	Apr. 11	1084	252	87	225
Wentworth, Fred W., assignor to Inventor's Novelty Manufacturing Company, Paterson, N. J. Tie-wire or clasp for insulators	619,915	Feb. 21	2066	468	86	1255
Wentworth, Lewis E., Jr., Merchantville, N. J. Ventilator	620,263	Feb. 28	2684	615	86	1387
Wentz, George F., Colorado Springs, Colo. Combined nozzle and sprayer	623,057	Apr. 11	1561	361	87	319
Wentz, Robert F., Siegfried, Pa. Separator	636,017	Oct. 31	3846	884	89	818
Wentzel, William E., Lynn, and G. E. Whitney, Boston, Mass., assignors to Whitney Motor Wagon Company, Kittery, Me. Vehicle driving mechanism	636,701	Nov. 7	850	189	89	1095
Wentzell, Claude W., Harper's Ferry, W. Va. Railway-switch	637,054	Nov. 14	1582	341, 342	89	1266
Wentzell, Lewis P., Greensburg, Pa. Ice-creeper	638,825	Dec. 12	1192	267	89	2119
Wenz, Heinrich, New York, N. Y. Pipe-cleaning attachment	624,715	May 9	1403	314	87	995
Wenzel, Gustav. (See Winkler and Wenzel.)						
Wenzel, Samuel S., *et al.* (See Horn, Louis, assignor.)						
Werder, Carl. (See Kolarik and Werder.)						
Werkzeugmaschinenfabrik A. Schärfl's Nachfolger. (See Schärfl, Andreas, assignor.)						
Werling, John L., *et al.* (See Schirra Julius, assignor.)						
Wern, Gustaf P., New York, N. Y., assignor to Rawson & Morrison Manufacturing Company, Cambridge, Mass. Suspension cableway and rope-carrier	631,601	Aug. 22	3489	788	88	1463
Werner, Alexis, London, England. Electric accumulator	623,195	Apr. 18	1857	425	87	389
Werner, Emil, Cleveland, Ohio. Grinding-machine	638,431	Dec. 5	470	96	89	1956
Werner, George W., Buffalo, N. Y. Speed-wagon	635,525	Oct. 24	2903	663	89	622
Werner, Henry C. (See Ferguson, Cara S., assignor.)						
Werner, Hermann, Stuttgart, Germany. Oven	628,052	July 4	168	36	88	34
Werner, Jacob J., Hebron, Nebr. Stovepipe-coupling	628,882	July 11	1749	408	88	360
Werner, John, Rochester, N. Y. Chocolate apparatus	630,957	Aug. 15	2295	523	88	1207
Werner, Louis C., Louisville, Ky. Electric block-signal system for railways	638,782	Dec. 12	1116	250	89	2105
Werner-Schenck Company. (See Ruggles, Harry A., assignor.)						
Wernicke, Carl, Stassfurt, Germany. Apparatus for cleaning glass panes	639,956	Dec. 26	3271	748, 749	89	2564
Wernicke, Carl G. W., Mankato, Minn. Expansion-pulley	637,909	Nov. 28	3586	751	89	1735
Wernicke, Otto H. L., Grand Rapids, Mich. Cabinet-frame clamp	625,482	May 23	2769	630, 631	87	1299
Wernicke, Otto H. L., Grand Rapids, Mich. Drawer or slide equalizer	632,607	Sept. 5	719	166	88	1849
Wernicke, Paul R., Eilenburg, Germany. Pattern-box	628,053	July 4	169	36	88	35
Werntz, Walter J., Annapolis, Md. Electric hair-brush	640,056	Dec. 26	3444	792	89	2600
Wersel, Frank B., Jr., Cincinnati, Ohio. Tufting apparatus for upholsterers	636,877	Nov. 14	1236	267	89	1198
Wersel, Frank B., Jr., and G. N., Cincinnati, Ohio. Machine for forming tufted upholstery	631,551	Aug. 22	3396	768, 769	88	1444
Wersel, George N. (See Wersel, Frank B., Jr., and G. N.)						
Wertsbaugher, Judson S., Fort Wayne, Ind. Window-cleaner	629,835	Aug. 1	149	34	88	750
Werz, Charles, *et al.* (See Hinson, Benoni T., assignor.)						
Wesco, Frank. (See Fisher and Wesco.)						
Wescott, Pulaski D., assignor of two-fifths to T. W. Tanner, E. J. Carpenter, W. N. King, and E. E. Cuddeback, Corning, N. Y. Acetylene-gas generator	634,434	Oct. 3	875	212	89	176
Wesel, Ferdinand. (See Curtis, Benjamin F., assignor.)						
Wesel, Ferdinand, New York, N. Y. Printers' furniture	619,060	Feb. 7	503	106	86	908
Wesel, Ferdinand, New York, N. Y. Routing-machine	622,832	Apr. 11	1165	269, 270, 271	87	240
Weser, John A., New York, N. Y. Musical instrument	638,082	Nov. 28	3894	820	89	1795
Wesley, Willis C., and W. Clark, West Superior, Wis. Thill-coupling	629,057	July 18	2066	481	88	440
Wesner, Friedrich W., Charlottenburg, Germany. Forging-machine	631,481	Aug. 22	3252	738	88	1415
Wessalosky, John A. and J. T., Dayton, Ohio. Fuel-gas burner	627,787	June 27	2927	641	87	2242
Wessalosky, Julius T. (See Wessalosky, John A. and J. T.)						
Wesselmann, Bruno, Göttingen, Germany. Metal-shearing machine	629,632	July 25	3128	728	88	665
Wesselmann, Bruno, Göttingen, Germany. Metal-shearing machine	629,633	July 25	3129	728	88	665
Wessels, Edward J. (See Merriam and Wessels.)						
Wessinger, Henry J., Tower, Minn. Crusher-plate	624,589	May 9	1181	265	87	952
Wessman, Emma. (See Jacobson and Wessman.)						
Wesson, Joseph H., and J. L. Hobbs; said Hobbs assignor to Smith & Wesson, Springfield, Mass. Safety device for revolving firearms	635,705	Oct. 24	3219	741	89	684
West, Arnold J., Aberdeen, Wash. Sawmill-carriage	639,835	Dec. 26	3048	701, 702	89	2519

Alphabetical list of patentees—Continued.

Name, residence, and invention.	No.	Date.	Monthly volume. Spec.	Monthly volume. Dr'g.	Official Gazette. Vol.	Official Gazette. Page.
West, Arthur W., Martinsville, Ohio. Wire-fence staple	636,018	Oct. 31	3848	884	89	818
West, David W. (See Yorger and West.)						
West, Edmund, Vallejo, Cal. Non-refillable bottle	624,416	May 2	858	193	87	866
West, Edward H., Boston, Mass. Weather-shield	632,385	Sept. 5	322	73	88	1770
West, Edward N., Beaver Falls, Pa. Faucet	628,258	July 4	574	137	88	112
West, Gus A., Gilman, Ill. Type-writer	621,878	Mar. 28	2487	555, 556	86	2025
West, Gus A., Gilman, Ill. Combined type-writing and adding machine	621,879	Mar. 28	2492	556, 557	86	2026
West Haven Buckle Company. (See Hyde, James C., assignor.)						
West, James. (See Raphael and West.)						
West, James, London, England. Apparatus for shaping and beveling edges of glass lenses	629,634	July 25	3130	729	88	665
West, James, assignor to Samuel Cupples Envelope Company, St. Louis, Mo. Envelop-machine	635,213	Oct. 17	2281	532, 533, 534	89	484
West, Jonathan B., Rochester, N. Y. Steam-engine	622,577	Apr. 4	705	164	87	134
West, Jonathan B., Rochester, N. Y. Car-wheel	634,280	Oct. 3	584	144	89	116
West, Joseph S., and L. M. McGee, Powellville, Ga. Plow or cultivator fender	639,119	Dec. 12	1708	394	89	2219
West, Leonard, St. Helens, England. Glass-cutting machine	621,591	Mar. 21	1940	434	86	1902
West, Marcus. (See Snyder and West.)						
West, Montgomery G., Kansas City, Mo. Type-cleaner for type-writing machines	632,298	Sept. 5	174	39	88	1742
West, Preston C., Boston, Mass. Machine for making and winding surgical bandages	635,160	Oct. 17	2196	512, 513	89	468
West, Redfield B., Guilford, Conn. Photosensitive composition	625,527	May 23	2851	------	87	1316
West, Robert S., Cleveland, Ohio. Disinfecting apparatus	634,490	Oct. 10	979	234	89	213
West, Virginia C., Wilmington, Del. Composition for removing rust	637,910	Nov. 28	3588	------	89	1736
West, William, *et al.* (See Kern, Isaac R., assignor.)						
Westall, Charles, assignor of one-half to T. Henckels, Middlebury, Vt. Bicycle driving-gear	629,635	July 25	3132	729	88	665
Westaway, Walter C., assignor to Moline Pump Company, Moline, Ill. Corn-shock baler	630,015	Aug. 1	541	119, 120	88	830
Westaway, Walter C., assignor to Moline Pump Company, Moline, Ill. Crane	630,016	Aug. 1	543	120, 121	88	831
Westbrook, Cherrick, Jr. (See Gray, Samuel, assignor.)						
Westbrook, Edmund H., Smithdale, Miss. Plow-stock	629,533	July 25	2956	689	88	631
Westbrook, William H., Cordele, Ga. Tool-holder	636,597	Nov. 7	646	142	89	1053
Westby, Hanson E., Spokane, Wash. Whiffletree and shaft attachment for vehicles	621,880	Mar. 28	2499	557	86	2027
Wester, John, Triumph, Minn. Sack-holder	639,120	Dec. 12	1709	394	89	2219
Wester, Swan A., Chicago, Ill. Folding bed	624,140	May 2	357	74	87	768
Westerdahl, Axel K., New York, N. Y. Storage-battery cell	631,191	Aug. 15	2716	615	88	1291
Westerfield, Frances A. (See Westerfield, Randolph F., assignor.)						
Westerfield, Randolph F., assignor to F. A. Westerfield, New York, N. Y. Extension-table	624,716	May 9	1404	314	87	995
Westergard, Peter K., Orangeburg, N. Y. Rotary brush	629,225	July 18	2365	549	88	496
Westerlin, John M. (See Campbell, Allan, assignor.)						
Westerlund, August V. (See Hökerstedt and Westerlund.)						
Western Elaterite Manufacturing Company. (See Anthony, Charles E., assignor.)						
Western Electric Company. (See Brown, Charles A., assignor.)						
Western Electric Company. (See Cragg, George L., assignor)						
Western Electric Company. (See Ellicott, Edward, assignor.)						
Western Electric Company. (See Ellicott and Oehring, assignors.)						
Western Electric Company. (See McBerty, Frank R., assignor.)						
Western Electric Company. (See McQuarrie, James L., assignor.)						
Western Electric Company. (See Oehring, Louis E., assignor.)						
Western Electric Company. (See Scribner, Charles E., assignor.)						
Western Electric Company. (See Shork, John, assignor.)						
Western Electric Company. (See Wait, Henry H., assignor.)						
Western Electric Company. (See Warner, Ernest P., assignor.)						
Western Malleable and Grey Iron Manufacturing Company. (See Germanson, Julius M., assignor.)						
Western Manufacturing Co. (See Normand and Hyde, assignors.)						
Western Metallic Packing Company. (See Badeker, John, assignor.)						
Western Shade Cloth Company. (See Yandall, Jacob, assignor.)						
Western Union Telegraph Company. (See Buckingham and Germann, assignors.)						
Western Wheeled Scraper Company. (See Welch, Samuel F., assignor.)						
Westervelt, Herbert E., South Bend, Ind. Paper-bag machine	621,881	Mar. 28	2500	558, 559	86	2027
Westinghouse Air Brake Company. (See Hayden, George W., assignor.)						
Westinghouse Air Brake Company. (See Newell, Frank C., assignor.) (Reissue.)						
Westinghouse Air Brake Company. (See Synnestvedt, Paul, assignor.)						
Westinghouse Electric and Manufacturing Company. (See Davis, Harry P., assignor.)						
Westinghouse Electric and Manufacturing Company. (See Davis and Conrad, assignors.)						
Westinghouse Electric and Manufacturing Company. (See Davis and Wright, assignors.)						
Westinghouse Electric and Manufacturing Company. (See Hill, Ernest R., assignor.)						
Westinghouse Electric and Manufacturing Company. (See Lamme, Benjamin G., assignor.)						
Westinghouse Electric and Manufacturing Company. (See Lamme and Mallett, assignors.)						
Westinghouse Electric and Manufacturing Company. (See Lamme and Skinner, assignors.)						
Westinghouse Electric and Manufacturing Company. (See Mershon, Ralph D., assignor.)						
Westinghouse Electric and Manufacturing Company. (See Morgan, Edmund C., assignor.)						
Westinghouse Electric and Manufacturing Company. (See Rowe, Norman, assignor.)						
Westinghouse Electric and Manufacturing Company. (See Scott, Charles F., assignor.)						
Westinghouse Electric and Manufacturing Company. (See Storer, Norman W., assignor.)						
Westinghouse Electric and Manufacturing Company. (See Tingley, Egbert M., assignor.)						
Westinghouse Electric and Manufacturing Company. (See Wright, Gilbert, assignor.)						
Westinghouse Electric and Manufacturing Company. (See Wright and Aalborg, assignors.)						
Westinghouse Electric and Manufacturing Company. (See Wurts, Alexander J., assignor.)						
Westinghouse, George. (See Nernst, Walther, assignor.)						
Westinghouse, George, Pittsburg, Pa. Electropneumatic controlling system	624,277	May 2	608	131, 132, 133, 134	87	814

Alphabetical list of patentees—Continued.

Name, residence, and invention.	No.	Date.	Monthly volume. Spec.	Monthly volume. Dr'g.	Official Gazette. Vol.	Official Gazette. Page.
Westinghouse, George, Pittsburg, Pa. Draw-gear and buffing apparatus	629,943	Aug. 1	397	86, 87, 88	88	800
Westinghouse Machine Company. (See Parsons, Charles A., assignor.)						
Westlake, Stanley N. B., London, England. Construction of reservoir-penholders	618,967	Feb. 7	309	67	86	870
Westlake, William, New York, N. Y. Means for feeding and burning pulverized fuel	622,935	Apr. 11	1354	311, 312	87	277
Westland, Frank G., McCook, Nebr. Folding spring-seat	620,816	Mar. 7	516	110	86	1603
Westman, George L., Richmond, Va. Pneumatic carpet-sweeper	628,505	July 11	1031	239	88	219
Westman, Gustaf M., New York, N. Y. Method of and apparatus for generating motive power	634,155	Oct. 3	318	80, 81	89	66
Westmeyer, Friedrich, St. Johann, Germany. Stationary buffer	630,577	Aug. 8	1634	365	88	1055
Weston, Calvin H., Tyrone, Pa. Clasp	632,483	Sept. 5	494	113	88	1805
Weston, Edmund B., and W. W. Jackson, Providence, R. I., assignors to New York Filter Manufacturing Company, New York, N. Y. Automatic regulating-weir	635,827	Oct. 31	3476	798, 799	89	745
Weston, Edmund B., and W. W. Jackson, Providence, R. I., assignors to New York Filter Manufacturing Company, New York, N. Y. Automatic regulating-weir	635,828	Oct. 31	3478	799	89	746
Weston, Edmund B., and W. W. Jackson, Providence, R. I., assignors to New York Filter Manufacturing Company, New York, N. Y. Automatic regulating-weir	635,829	Oct. 31	3480	800	89	746
Weston, Edward B., Dayton, Ohio. Register	638,304	Dec. 5	224	47	89	1909
Weston, Edward B., Dayton, Ohio. Swinging chair and hammock	639,877	Dec. 26	3115	716	89	2531
Weston, Edward B., Dayton, Ohio, assignor to M. B. Wallace, St. Louis, Mo. Temporary binder	637,309	Nov. 21	2104	454	89	1381
Weston Electrical Instrument Company. (See Heinrich, Richard O., assignor.)						
Weston, George W. and W. H., Philadelphia, and M. Ancker, Bristol, Pa. Sprinkler	636,598	Nov. 7	647	142	89	1053
Weston, James A., Mount Washington, Mo. Corn-harvester	636,306	Nov. 7	136	30	89	949
Weston, Leroy A., Adams, Mass. Automatic fire-sprinkler	619,242	Feb. 7	839	184	86	977
Weston, Leroy A., Adams, Mass. Automatic fire-sprinkler	637,687	Nov. 21	3175	658	89	1633
Weston, Mercy, *et al.* (See Valiant, George, assignor.)						
Weston Paper and Manufacturing Company. (See Kaufman, Frank, assignor.)						
Weston, Thomas A., Arden, N. C. Shutter-stay	640,057	Dec. 26	3446	792	89	2600
Weston, Walter H., Winthrop, Mass. Nursery-chair	637,911	Nov. 28	3588	751	89	1736
Weston, William H. (See Weston and Ancker.)						
Weston, William S., Chicago, Ill. Electric meter	621,005	Mar. 14	886	192	86	1685
Westover, John, David City, Nebr. Box for cereals and means for handling same	635,626	Oct. 24	3088	708, 709	89	658
Westwood, Coral N., Nanaimo, Canada. Type-writing machine	623,451	Apr. 18	2310	529	87	483
Westwood, John T., assignor of three-fourths to S. Kline, W. Davis, H. M. Wallace, L. Whit, and E. Myers, Wheeling, J. L. McMechen, McMechen, and T. F. Deegan, Benwood, W. Va. Railway-switch	624,590	May 9	1182	266	87	952
Wetherby, George, Duluth, Minn. Apparatus for placer-mining	619,647	Feb. 14	1556	354	86	1131
Wetherby, George, Duluth, Minn. Apparatus for boring and disintegrating earthy matter	639,836	Dec. 26	3051	702	89	2520
Wethey, Arthur H., *et al.* (See Pratt, Frederick A., assignor.)						
Wethey, Arthur H., Butte, Mont. Calcining-furnace	640,058	Dec. 26	3447	792, 793	89	2600
Wetmore, Jean A., New York, N. Y. Acetylene-gas generator	636,370	Nov. 7	241	53	89	969
Wetterbergh, Carl B., Malmo, Sweden. Buoy	628,506	July 11	1032	240	88	219
Wettergren, Addick G., and R. L. Treffurth, New York, N. Y. Extension-table	622,578	Apr. 4	708	165	87	135
Wettlin, Dora L., *et al.* (See Wettlin and Peterson, assignors.)						
Wettlin, George P., and J. M. Peterson, assignors to O. A. Peterson and D. L. Wettlin, Hornellsville, N. Y. Window-screen	619,454	Feb. 14	1217	277	86	1066
Wever, Friedrich, and C. Seel, Barmen, Germany. Loom	626,314	June 6	173	42	87	1646
Wever, Willis L., and H. H. Parmerter, Plattsburg, N. Y. Bank account-book	632,769	Sept. 12	1070	247	88	1934
Weyand, Charles E., New York, N. Y. Box for paper and envelops	636,019	Oct. 31	3849	885	89	819
Weyand, Charles L., New York, N. Y. Trolley	632,033	Aug. 29	4264	958	88	1622
Weyand, Henry. (See Burlingham, Lucious D., assignor.)						
Weyble, Arthur R., assignor of one-half to J. S. Michel, Paterson, N. J. Shoe-polishing cabinet	628,054	July 4	171	37	88	35
Weyburn & Briggs Company. (See Blakesley, Frank S., assignor.)						
Weyburn & Briggs Company. (See Clark, William A., assignor.)						
Weyer, Joseph J. (See Stenz, Henry, assignor.)						
Weyer, Theodore G., assignor to S. Karpen & Brothers, Chicago, Ill. Sofa-bed	624,591	May 9	1184	266	87	952
Weyhe, Hermann C. W., deceased; A. P. Elten, Cleveland, Ohio, administrator, assignor to C. B. T. Wilckens, Bremen, Germany. Constructing piers or dams	635,165	Oct. 17	2203	514	89	470
Weyhe, Hermann C. W., deceased; A. P. Elten, Cleveland, Ohio, administrator, assignor to C. B. T. Wilckens, Bremen, Germany. Flooring and ceiling	639,544	Dec. 19	2504	577	89	2393
Weyland, Jakob, assignor to C. F. Hausmann, St. Gall, Switzerland. Capsule	629,141	July 18	2234		88	472
Weymouth, Clarence R., Alameda, Cal. Electric measuring instrument	620,626	Mar. 7	141	29	86	1529
Weymouth, Sanford K., *et al.* (See Gould, Simeon L., assignor.)						
Wezel, Julius, Leipsic, Germany. Stoker's fire-iron	632,770	Sept. 12	1072	248	88	1934
Wezel, Julius, Leipsic, Germany. Apparatus for and process of producing steam impregnated with herbs or other extracts	639,878	Dec. 26	3117	716	89	2531
Whalen, Thomas J., and J. F. Warner, Portland, Oreg., assignors to G. C. Hale and M. Wollman, Kansas City, Mo. Washing and cleaning device	639,475	Dec. 19	2387	549	89	2369
Whaley, Charles F., St. Paul, Minn. Bicycle-pedal stirrup	621,191	Mar. 14	1221	268	86	1751
Whaley, George W., Philadelphia, Pa. Switch for abattoir-tracks	631,687	Aug. 22	3627	817	88	1490
Whaley, Oscar W., Swan, Iowa. Office-door indicator	624,278	May 2	617	134	87	816
Whaley, Thomas, Florence, Colo. Car-coupling	619,032	Feb. 7	449	95	86	897
Whaley, Thomas, Brewster, Colo. Car-coupling	622,874	Apr. 11	1255	290	87	257
Wharton, John C. (See Morrison and Wharton.)						
Wharton, Samuel E., West Superior, Wis. Bottle	616,996	Jan. 3	247	57	86	49
What Cheer Drill and Miners Tool Company. (See Walker, Alexander, assignor.)						
Whealdon, Isaac, Plainview, Oreg. Trace-clasp	628,055	July 4	172	37	88	35
Whealdon, John. (See Ramsey, Jacob E., assignor.)						
Wheat, Allen A., Mittineague, Mass. Rag-dusting machine	630,307	Aug. 1	1072	234	88	933
Wheatfield, Jacob. (See Reed and Wheatfield.)						
Wheatfield, Jacob, and G. T. Reed, assignors to S. B. Sonneborn, Baltimore, Md. Garment-fastening	637,310	Nov. 21	2105	454	89	1381
Wheaton, Charles W. (See Frazier, Wheaton, and Hagans.)						
Wheaton, Milton A., San Francisco, Cal. Can-heading machine	619,106	Feb. 7	585	126, 127	86	925
Wheaton, Milton A., San Francisco, Cal. Elevator	635,454	Oct. 24	2782	636	89	598
Wheelan, Fairfax H. (See Jessup, Robert W., assignor.)						
Wheeler, A. G., Jr., trustee. (See Bacon, Daniel, assignor.)						
Wheeler, Austin K. (See Waggoner, Albert E., assignor.)						
Wheeler, Charles B., *et al.*, executors. (See Wheeler, Cyrenus, Jr.)						
Wheeler, Charles E., Decatur, Ill. Lift for plow-frames, &c	632,771	Sept. 12	1072	248	88	1934

Alphabetical list of patentees—Continued.

Name, residence, and invention.	No.	Date.	Monthly volume. Spec.	Monthly volume. Dr'g.	Official Gazette. Vol.	Official Gazette. Page.
Wheeler, Charles H., Akron, Ohio. Rubber tire for vehicles	633,539	Sept. 19	2507	589	88	2225
Wheeler, Charles H., Akron, and F. W. Kremer, Wadsworth, Ohio; said Kremer assignor to said Wheeler. Rubber step for vehicles	633,540	Sept. 19	2510	589	88	2225
Wheeler, Charles H., Akron, and F. W. Kremer, Wadsworth, Ohio; said Kremer assignor to said Wheeler. Apparatus for setting rubber tires	633,541	Sept. 19	2511	589, 590	88	2225
Wheeler, Cyrenus, Jr., deceased, Auburn, N. Y.; D., L. M., H. T., and C. B. Wheeler, executors. Combined washbench and clothes-wringer	634,710	Oct. 10	1365	321, 322	89	289
Wheeler, Dexter, *et al.*, executors. (See Wheeler, Cyrenus, Jr.)						
Wheeler, Edwin O., Bellevue, Ky. Knife	628,259	July 4	575	137	88	112
Wheeler, George A., New York, N. Y. Bicycle pedal-clip	638,407	Dec. 5	421	88	89	1946
Wheeler, George A., New York, N. Y., assignor of one-half to C. D. Seeberger, Chicago, Ill. Elevator	617,788	Jan. 17	1781	399, 400	86	385
Wheeler, George A., New York, N. Y., assignor of one-half to C. D. Seeberger, Chicago, Ill. Elevator	617,789	Jan. 17	1785	400	86	386
Wheeler, George B., Bellows Falls, Vt. Starching-machine	634,711	Oct. 10	1366	322	89	290
Wheeler, George B., Bellows Falls, Vt. Alarm for rotary washing-machines	634,712	Oct. 10	1370	322	89	290
Wheeler, Harriet T., *et al.*, executors. (See Wheeler, Cyrenus, Jr.)						
Wheeler, Henry H., East St. Louis, Ill. Valve	635,214	Oct. 17	2289	534	89	485
Wheeler, Holman K., assignor of one-half to G. J. Carr, Lynn, Mass. Pencil-sharpening machine	620,862	Mar. 7	607	132	86	1622
Wheeler, James A., Boone, Iowa. Lubricator for hot boxes of railway-car journals	625,002	May 16	1924	431	87	1114
Wheeler, James A., New York, N. Y. Molding fibrous pulp	625,372	May 23	2588	------	87	1265
Wheeler, James F., Stone's Crossing, assignor of one-half to C. T. Boyer, Indianapolis, Ind. Clover-buncher	626,471	June 6	468	109, 110	87	1704
Wheeler, John C., and J. J. Duket, Toledo, Ohio. Skirt and waist holder	637,311	Nov. 21	2106	454	89	1381
Wheeler, Judson B., Mannington, W. Va. Device for increasing flow in oil-wells	626,949	June 13	1378	303	87	1899
Wheeler, Laurens, S., Tyro, Kans. Wagon-brake	638,783	Dec. 12	1122	250	89	2105
Wheeler, Lucy M., *et al.*, executors. (See Wheeler, Cyrenus, Jr.)						
Wheeler, Phillip G. (See Lesser, Daniel E., assignor.)						
Wheeler, William C., assignor to Boston & Lockport Block Company, Lockport, N. Y. Tackle-block	638,784	Dec. 12	1124	250	89	2106
Wheeler, William O., Sharon, Conn. Button for shirt-collars	620,391	Feb. 28	2901	665	86	1429
Wheeler, William O., Sharon, Conn. Collar-button	637,189	Nov. 14	1859	400	89	1316
Wheeler & Wilson Manufacturing Company. (See Dial and Dimond, assignors.)						
Wheeler & Wilson Manufacturing Company. (See Krippendorf, Paul, assignor.)						
Wheeler & Wilson Manufacturing Company. (See Neely, William A., assignor.)						
Wheeler & Wilson Manufacturing Company. (See Ostrom, Freeland W., assignor.)						
Wheelock, George L. (See Miller and Wheelock.)						
Wheelock, Joseph H., assignor, by mesne assignments, to R. W. Tilson, New York, N. Y., and H. K. Carragan, Bayonne, N. J. Baggage-check strap or holder	626,198	May 30	4190	952	87	1588
Wheelock, Rufus A., C. F. Walker, and H. C. Diers, Tacoma, Wash. Acetylene-gas generator	629,282	July 18	2460	572	88	513
Wheelwright, Charles S., Providence, R. I. Agitating apparatus	626,950	June 13	1380	303	87	1899
Wheildon, William M., Boston, Mass., assignor to Aero-Pulverizer Company, Jersey City, N. J. Feeding device for pulverizers	635,112	Oct. 17	2106	494	89	452
Wheildon, William M., Boston, Mass., assignor to Aero-Pulverizer Company, Jersey City, N. J. Feeding device for pulverizers	635,113	Oct. 17	2109	494	89	452
Wheildon, William M., Boston, Mass., assignor to Aero-Pulverizer Company, Jersey City, N. J. Pulverizer	635,114	Oct. 17	2111	495	89	453
Whelan, Alexander, assignor of one-half to J. A. Whelan, Washington, D. C. Apparatus for controlling horses	626,581	June 6	652	151	87	1741
Whelan, Charles C., Washington, D. C. Sign	634,316	Oct. 3	657	159	89	133
Whelan, James A. (See Whelan, Alexander, assignor.)						
Whelan, Nellie, Philadelphia, Pa. Hair-crimper	618,630	Jan. 31	3370	751	86	717
Wherry, John F., Red Bank, N. J. Bird-whistle	634,928	Oct. 17	1741	413	89	378
Whetham, William C. D. (See Griffiths and Whetham.)						
Whichello, Norman. (See Heermans and Whichello.)						
Whidden, James M. (See Pendergast and Whidden.)						
Whidden, John P., Loomis, Wash. Current water-wheel	619,005	Feb. 7	404	84	86	889
Whinnerah, Ernest B. (See Stearns, Wilson, and Whinnerah.)						
Whipp, John W., Grape Vine, Tex. Wheel-scraper	621,882	Mar. 28	2504	559	86	2028
Whipple, Alfred L., Lisbon, N. D. Variable gear for bicycles	626,257	June 6	68	16	87	1628
Whipple, Effinger E., assignor to Standard Harrow Company, Utica, N. Y. Lever-harrow and riding attachment	636,371	Nov. 7	243	53, 54	89	970
Whipple, Effinger E., assignor to Standard Harrow Company, Utica, N. Y. Weeder	638,535	Dec. 5	660	138	89	1992
Whipple, Effinger E., assignor to Standard Harrow Company, Utica, N. Y. Harrow	638,536	Dec. 5	661	138	89	1992
Whipple, Effinger E., deceased; H. M. Whipple, Detroit, Mich., administratrix. Supporting attachment for agricultural implements	636,477	Nov. 7	422	94	89	1006
Whipple, Effinger E., deceased; H. M. Whipple, Detroit, Mich., administratrix. Agricultural implement	636,878	Nov. 14	1237	267	89	1198
Whipple, Effinger E., deceased, Utica, N. Y.; H. M. Whipple, administratrix. Agricultural implement	637,190	Nov. 14	1860	400, 401	89	1317
Whipple, Effinger E., deceased; H. M. Whipple, Detroit, Mich., administratrix. Weeder	637,191	Nov. 14	1865	401	89	1318
Whipple, Effinger E., deceased; H. M. Whipple, Detroit, Mich., administratrix. Weeder	637,192	Nov. 14	1866	401	89	1318
Whipple, Hannah M., administratrix. (See Whipple, Effinger E.)						
Whipple, Marcus M., 2d, Sharon, Mass. Knife-adjuster	617,666	Jan. 10	1524	346	86	316
Whipple, Rollin P., Greenfield, Mass. Spring-hinge	621,192	Mar. 14	1222	268	86	1751
Whipple, William G. (See Glen, Harry W., assignor.)						
Whisler, Albert, Greentown, Ind. Tool for inserting valve-stems in pneumatic tires	626,582	June 6	653	151	87	1741
Whisler, Albert, Greentown, Ind. Tire-valve inserter	639,476	Dec. 19	2389	550	89	2369
Whisler, Arrah J., Kokomo, Ind. Pneumatic tire	618,755	Jan. 31	3595	802, 803	86	763
Whit, Louis, *et al.* (See Westwood, John T., assignor.)						
Whitaker, Charles H., New York, N. Y. Foot-warmer	627,555	June 27	2505	551	87	2157
Whitaker, Charles H., Boston, Mass., assignor of one-half to A. C. Whiting, Burlington, Vt. Steam-trap	638,537	Dec. 5	663	139	89	1993
Whitaker, Edmund S., and J. Chadwick, Providence, R. I. Cap-spindle	633,302	Sept. 19	2076	486	88	2142
Whitaker, John H., Davenport, Iowa. Swinging-door attachment	629,283	July 18	2463	572	88	513
Whitaker, John H., Davenport, Iowa. Automatically operating doors	632,299	Sept. 5	175	40	88	1742
Whitaker, Stephen S. (See Day and Timewell, assignors.)						
Whitburn, Daniel, Auckland, New Zealand. Combined knife, clench, and punch for use in blasting operations	639,121	Dec. 12	1710	394	89	2220
Whitcher, Frank W., *et al.* (See Elliott, Sterling, assignor.)						
Whitcomb, George A., assignor of one-third to E. W. Hodgdon, Framingham, Mass. Gas-engine	634,654	Oct. 10	1260	298, 299	89	268
White, Caroline A., Redondo Beach, Cal. Tea-ball	627,166	June 20	1758	385	87	1993

Alphabetical list of patentees—Continued.

Name, residence, and invention.	No.	Date.	Monthly volume.		Official Gazette.	
			Spec.	Dr'g.	Vol.	Page.
White, Cassius H. (See Gawne, White, and Cook.)						
White, Charles E., Philadelphia, Pa., assignor to Welsbach Light Company, Gloucester City, N. J. Hydrocarbon incandescent lamp	636,422	Nov. 7	331	74	89	988
White, Charles P., assignor to White Warner Company, Taunton, Mass. Oven-thermometer	618,260	Jan. 24	2687	595	86	572
White, Charles S., Jamestown, N. Y. Folding carriage	618,528	Jan. 31	3192	705, 706	86	684
White, Charles W., assignor to M. J. White, Waco, Tex. Mattress-stuffing machine	618,489	Jan. 31	3114	689	86	669
White, Charles W., assignor to M. J. White, Waco, Tex. Baling-press	631,915	Aug. 29	4043	907, 908	88	1579
White, Clarence O., Minneapolis, Minn. Gasolene-engine	634,679	Oct. 10	1305	307	89	278
White, Cornelius A., assignor of one-half to J. J. Klipp and M. Brown, Maysville, Ky. Gig-saddle	629,734	July 25	3305	772	88	698
White, Edmund F. (See White, John J. and E. F.)						
White, Ernest F. (See Stoneman, Orville A., assignor.)						
White, Franklin P., Wilmington, N. C. Wheel-hub	631,350	Aug. 22	3012	683	88	1368
White, Franklin R., assignor to Patent Button Company, Waterbury, Conn. Button-attaching machine	624,279	May 2	619	134, 135, 136	87	816
White, Franklin R., assignor to Patent Button Company, Waterbury, Conn. Button	635,706	Oct. 24	3221	742	89	684
White, Fred G., Aurora, assignor of one-half to J. Britt, St. Louis, Mo. Pneumatic shoe-stuffer	619,108	Feb. 7	597	128	86	927
White, Fred H. (See Whitney, Charles H., assignor.)						
White, Frederick L., assignor to G. H. Clowes, Waterbury, Conn. Spinning device	620,202	Feb. 28	2583	587	86	1367
White, Frederick L., assignor to G. H. Clowes, Waterbury, Conn. Tap	627,556	June 27	2506	551	87	2158
White, Frederick L., assignor to G. H. Clowes, Waterbury, Conn. Drawing-die	627,557	June 27	2510	552	87	2159
White, Frederick L., assignor to G. H. Clowes, Waterbury, Conn. Drawing-die mechanism	627,558	June 27	2511	552	87	2159
White, Frederick L., assignor to G. H. Clowes, Waterbury, Conn. Dead-center	632,386	Sept. 5	324	73	88	1770
White, Frederick L., assignor to G. H. Clowes, Waterbury, Conn. Support for brackets or holders for velocipede or bicycle lamps	635,067	Oct. 17	1997	472	89	430
White, Frederick L., assignor to G. H. Clowes, Waterbury, Conn. Acetylene-lamp	635,366	Oct. 24	2566	597	89	556
White, Frederick L., assignor to G. H. Clowes, Waterbury, Conn. Calcium-carbid cartridge	635,455	Oct. 24	2786	637	89	599
White, Frederick L., and W. M. Gilbert, assignors to G. H. Clowes, Waterbury, Conn. Calcium-carbid cake	625,945	May 30	3626	824	87	1484
White, Frederick L., and W. F. Goeltz, assignors to G. H. Clowes, Waterbury, Conn. Lamp-support	625,944	May 30	3624	824	87	1483
White, George W., Chattanooga, Tenn. Fluid-burner fire-log	639,122	Dec. 12	1711	394	89	2220
White, Halbert E., Chicago, Ill. Stovepipe-collar	638,947	Dec. 12	1406	321	89	2161
White, Harriet L., *et al.* (See Keith, Frank L., assignor.)						
White, Hawley C., North Bennington, Vt., and C. Leffler, New York, N. Y., assignors to H. C. White Company, North Bennington, Vt. Machine for trimming stereoscope-hoods	629,836	Aug. 1	149	35	88	750
White, Herbert E., New York, N. Y. Machine for folding and inserting shirring-strings into incandescent mantles	619,375	Feb. 14	1074	241, 242	86	1040
White, Herbert P., Philadelphia, Pa. Electric switch	638,036	Nov. 28	3831	806	89	1783
White, Howard, Burmont, Pa. Window-shutter	626,449	June 6	434	102	87	1698
White, Hugh, executor. (See Towns and Barrett.)						
White, Hugh, *et al.* (See Merritt, Arthur A., assignor.)						
White, James L. (See Miller, Stephen J., assignor.)						
White, John, Edinburgh, Scotland. Apparatus for straining paper-pulp	634,929	Oct. 17	1742	413, 414	89	379
White, John F., Bloomington, Ill. Clothes-rack	630,150	Aug. 1	790	171	88	879
White, John F., Bloomington, Ill. Combination ironing-table	639,837	Dec. 26	3052	702	89	2520
White, John J. and E. F., Holyoke, Mass. Folding lunch or other box	625,227	May 16	2311	526	87	1186
White, John M., Tobias, Nebr. Weighing apparatus	631,351	Aug. 22	3013	683	88	1368
White, John S., New York, N. Y. Arch-center	629,636	July 25	3134	730	88	665
White, Joseph A. (See Moore and White.)						
White, Joseph A., Jr., Warsaw, Ill. Lumber-measuring instrument	627,836	June 27	3017	659	87	2259
White, Joseph C., Chelsea, Mass. Combined pistol and knife	626,472	June 6	472	110	87	1705
White, Joseph H., New York, N. Y. Tailor's square	626,258	June 6	69	16	87	1628
White, Junius F. (See Treadgold, George H., assignor.)						
White, Lawrence, Little Rock, Ark. Device for ventilating cars or other vehicles	621,627	Mar. 21	1999	446	86	1013
White, Leroy, assignor of one-half to D. D. Walton, Lake City, Mich. Ax	636,599	Nov. 7	648	142	89	1053
White Manufacturing Company. (See Lloyd, Marshall B., assignor.)						
White, Mary J. (See White, Charles W., assignor.)						
"White" Patent Rail Fastening Company. (See White, Robert A., assignor.)						
White, Patrick F., Westernport, Md. Spoke for wheels	636,934	Nov. 14	1364	291	89	1222
White, Paul H., assignor to C. F. Smith, Indianapolis, Ind. Switch for electrically-propelled vehicles	638,859	Dec. 12	1249	282	89	2129
White, Robert, New York, N. Y. Steam-boiler	626,118	May 30	4029	920	87	1556
White, Robert, Toledo, Ohio. Trolley	632,772	Sept. 12	1073	248	88	1935
White, Robert A., assignor to "White" Patent Rail Fastening Company, Limited, Adelaide, South Australia. Rail-fastening	623,932	Apr. 25	3206	738, 739	87	672
White, Roger S., New York, N. Y. Electric meter	624,141	May 2	359	74, 75	87	768
White, Roger S., New York, N. Y. Means for reducing friction in rotating shafts of electric meters	624,142	May 2	362	75	87	769
White, Rollin H., Cleveland, Ohio. Machine for making balls	635,215	Oct. 17	2290	534, 535	89	485
White, Samuel T., *et al.* (See Heavey, Bernard C., assignor.)						
White, Stephen V. (See Crandall, Jesse A., assignor.)						
White, W. J. (See Parsons, Ernest P., assignor.)						
White, W. Pierrepont, *et al.* (See Merritt, Arthur A., assignor.)						
White, W. Pierrepont, *et al.* (See Towns and Barrett, assignors.)						
White, Wallace D., *et al.* (See Read, Walter C., assignor.)						
White Warner Company. (See White, Charles P., assignor.)						
White, Willard I. (See Day, William C., assignor.)						
White, William, Beaver City, Okla. Ter. Lemon-squeezer	632,387	Sept. 5	324	73	88	1771
White, William H., Nyack, assignor of one-half to C. H. Rutherford, New York, N. Y. Parcel-carrier for bicycles	619,376	Feb. 14	1076	242	86	1040
Whitehall, Samuel, South Bend, Ind. Automatic telegraphy	630,151	Aug. 1	792	171, 172	88	879
Whitehall, Samuel, South Bend, Ind. Automatic telegraphy	630,152	Aug. 1	796	172	88	880
Whitehead, Benjamin S., Newark, N. J., assignor to Whitehead & Hoag Company, of New Jersey. Device for displaying photographs, pictures, &c	634,156	Oct. 3	319	81	89	67

Alphabetical list of patentees—Continued.

Name, residence, and invention.	No.	Date.	Monthly volume. Spec.	Monthly volume. Dr'g.	Official Gazette. Vol.	Official Gazette. Page.
Whitehead, Ernest. (See Crook and Whitehead.)						
Whitehead & Hoag Company. (See Keil, Augustus J., assignor.)						
Whitehead & Hoag Company. (See Whitehead, Benjamin S., assignor.)						
Whitehead, John, Urbana, Ohio. Apparatus for thawing frozen ground	632,388	Sept. 5	326	74	88	1771
Whitehead, Mary J., Paterson, N. J. Disinfecting waste-receptacle	639,007	Dec. 12	1525	349	89	2183
Whitehead, Oliver W., Dayton, Ohio. Trolley-catcher	621,984	Mar. 28	2709	611, 612	86	2065
Whitehead, William, Manchester, England. Apparatus for recording and checking workmen's time	617,410	Jan. 10	1067	244	86	227
Whitehead, William, Manchester, England. Apparatus for recording and checking workmen's time	620,203	Feb. 28	2585	587, 588	86	1367
Whitehill, David B., North Clarendon, Pa. Bailing apparatus	638,948	Dec. 12	1406	321, 322	89	2161
Whitehurst, William J., *et al.* (See Hysore, Alphenas V., assignor.)						
Whitelaw, James, St. Louis, Mo., assignor, by mesne assignments, to Carter-Crume Company, of West Virginia. Paper-folding machine	622,579	Apr. 4	709	165, 166	87	135
Whiteley, Burt H. (See Giberson, Mason B., assignor.)						
Whiteley, Washington L., Harristown, Ill. Stalk-rake	617,843	Jan. 17	1884	420	86	406
Whitely, Daviess B., Whitesville, Ky. Folding rocking-chair	633,677	Sept. 26	2797	651	88	2295
Whitely, William N., assignor to himself and William N. Whitely, Jr., Springfield, Ohio. Bicycle hub and bearing	633,542	Sept. 19	2513	590, 591	88	2226
Whiteman, Louis P. (See Miller, Tobias, assignor.)						
Whitfield Company. (See Cowan, Charles C., assignor.)						
Whitfield, Howard, Red Bank, N. J. Manifold-pad	626,259	June 6	70	17	87	1628
Whitfield, Marcy L., assignor of one-half to C. C. Cowan, Memphis, Tenn. Electromedical apparatus	636,093	Oct. 31	4021	919	89	852
Whithall, Tatum & Co. (See Tatum, Albert H., assignor.)						
Whitin Machine Works. (See Owen, Henry A., assignor.)						
Whitin Machine Works. (See Owen, Oscar L., assignor.)						
Whitin Machine Works. (See Smith, Cyrus E., assignor.)						
Whitin Machine Works. (See Taft and Owen, assignors.)						
Whitin Machine Works. (See Thomas, Winfield S., assignor.)						
Whiting, Alfred C. (See Whitaker, Charles H., assignor.)						
Whiting, Allan H., assignor to A. L. Riker, New York, N. Y. Motor control	629,837	Aug. 1	152	36	88	750
Whiting, Arthur E., Ashtabula, Ohio. Force-pump	620,392	Feb. 28	2902	665, 666	86	1429
Whiting, Charles D., Chicago, Ill. Car-coupling	635,115	Oct. 17	2114	495	89	453
Whiting, James R., Stamford, Conn., and W. A. Lawrence, Waterville, N. Y. Apparatus for separating and recovering valuable vapors	622,936	Apr. 11	1357	312	87	277
Whiting, Jasper, and J. G. Bergquist, Chicago, Ill. Rotary drier	623,388	Apr. 18	2202	505, 506	87	460
Whiting, John H., Belvidere, Ill. Device for transmitting motion	625,003	May 16	1925	431	87	1115
Whiting, William H. H., Beachmont, Mass. Electric fire-engine	632,665	Sept. 5	842	197	88	1875
Whiting, William J., *et al.* (See Angell, Albert, assignor.)						
Whitlock, Benjamin M., New York, N. Y. Apparatus for cleaning ships' cables	622,833	Apr. 11	1169	371, 372	87	240
Whitlock, E. D. (See Whitlock, Ralph G., assignor.)						
Whitlock, Frederick B., assignor of one-half to W. W. Keen, Indianapolis, Ind. Trousers-hanger	632,077	Aug. 29	4349	978	88	1638
Whitlock, James G. (See Hanson, Victor, assignor.)						
Whitlock Machine Company. (See Huson, Winfield S., assignor.)						
Whitlock Machine Company. (See Whitlock, Sturges, assignor.)						
Whitlock, Myron J., assignor to Farrel Foundry and Machine Company, Ansonia, Conn. Calendering-machine	619,107	Feb. 7	595	127	86	927
Whitlock, Myron J., assignor to Farrel Foundry and Machine Company, Ansonia, Conn. Calendering-machine	639,915	Dec. 26	3191	733	89	2548
Whitlock, Ralph G., Des Moines, Iowa, assignor to E. D. Whitlock, Los Angeles, Cal. Automatic measuring device	634,634	Oct. 10	1225	291	89	261
Whitlock, Sturges, Shelton, assignor to Whitlock Machine Company, Derby, Conn. Form-supporting bed for printing-presses	637,055	Nov. 14	1585	342	89	1267
Whitman & Barnes Manufacturing Company. (See Dunbar, Wilmer, assignor.)						
Whitmarsh, Charles E., assignor of three-fourths to J. Gourlay and J. J. O'Brien, New York, N. Y. Bicycle-lamp bracket	623,453	Apr. 18	2315	530	87	483
Whitmore, Charles F. (See Lauch, Alphonse J., assignor.)						
Whitmore, Fred A., Hopedale, Mass., assignor to Draper Company, Hopedale, Mass., and Portland, Me. Thread-winding machine	637,438	Nov. 21	2341	505, 506	89	1429
Whitmore, Nathaniel G., assignor of one-half to J. Booth, Taunton, Mass. Breech-loading firearm	629,142	July 18	2234	518	88	472
Whitney, Amos, and F. Harrington, assignors to Pratt & Whitney Company, Hartford, Conn. Work-holder for lathe-spindles	628,730	July 11	1478	342, 343	88	309
Whitney, Baxter D. (See Heaton, John W., assignor.)						
Whitney, Carrie A., Los Angeles, Cal. Needle	634,655	Oct. 10	1264	299	89	269
Whitney, Cephas, Kingston, Jamaica. Artificial-tooth crown and backing	623,751	Apr. 25	2826	648	87	599
Whitney, Cephas, and A. C. Lazarus, Kingston, Jamaica. Bicycle-gear	621,883	Mar. 28	2506	559, 560	86	2028
Whitney, Charles, Winnetka, Ill. Photographic-film roll	626,356	June 6	275	62	87	1667
Whitney, Charles, Winnetka, Ill. Photographic-film roll	626,357	June 6	276	63	87	1667
Whitney, Charles, Winnetka, Ill. Antifriction-gearing	626,515	June 6	545	126	87	1719
Whitney, Charles, Winnetka, and J. F. Steward, assignors to Deering Harvester Company, Chicago, Ill. Corn-harvester	619,377	Feb. 14	1078	242, 243	86	1041
Whitney, Charles H., Cookeville, Tenn., assignor of one-half to F. H. White, White, S. D. Seeding attachment for plows	627,559	June 27	2513	552	87	2159
Whitney, Charles H., Cookeville, Tenn., assignor of one-fourth to F. H. White, White, S. D. Combined planter and fertilizer distributer	627,560	June 27	2514	552, 553	87	2160
Whitney, Clarence E., assignor to Whitney Manufacturing Company, Hartford, Conn. Chain-sprocket	637,056	Nov. 14	1586	342	89	1267
Whitney, Earle E., Wonewoc, Wis. Thill or pole coupling	621,510	Mar. 21	1798	400	86	1874
Whitney, Eddy R., Lynn, Mass. Street-car	639,123	Dec. 12	1712	395	89	2220
Whitney, Frank, Winnetka, Ill. Roller-bearing	640,059	Dec. 26	3452	793	89	2601
Whitney, George E. (See Wentzel and Whitney.)						
Whitney, James E. (See Lovejoy, Herbert M., assignor.)						
Whitney, Joseph W., Great Falls, Mont. Cash-register	627,032	June 13	1517	331	87	1927
Whitney, Joshua C. (See Gledhill and Whitney.)						
Whitney, Lemuel R., Milwaukee, Wis. Dust-collector	624,592	May 9	1186	267	87	953
Whitney, Linwood G., Cambridge, Mass., assignor to Lock Stub Check Company, New York, N. Y. Apparatus for sales-checking	621,592	Mar. 21	1942	434	86	1902

Alphabetical list of patentees—Continued.

Name, residence, and invention.	No.	Date.	Monthly volume. Spec.	Monthly volume. Dr'g.	Official Gazette. Vol.	Official Gazette. Page.
Whitney Manufacturing Company. (See Whitney, Clarence E., assignor.)						
Whitney Motor Wagon Company. (See Wentzel and Whitney, assignors.)						
Whitney-Reed Chair Company. (See Lamont, George T., assignor.)						
Whitney, Walter S., Glens Falls, N. Y. Air-purifying and ventilating system	616,997	Jan. 3	250	57	86	50
Whittemore, Allan P., Webster Groves, Mo. Studding for fireproof walls	626,583	June 6	655	152	87	1742
Whittemore, Charles. (See Glass, Perley R., assignor.)						
Whittemore, Charles. (See Whittemore and Glass, assignors.)						
Whittemore, Don J., Milwaukee, Wis. Level for tracks	631,976	Aug. 29	4153	934	88	1600
Whittemore, Walter L., Quincy, Mass. Eyeleting-machine	628,291	July 4	645	150, 151	88	125
Whittemore, Walter L., and P. R. Glass, Quincy, assignors to C. Whittemore, Newton, Mass. Eyeleting-machine	628,289	July 4	629	149	88	122
Whittemore, Walter L., and P. R. Glass, Quincy, assignors to C. Whittemore, Newton, Mass. Eyeleting-machine	628,290	July 4	634	149, 150	88	122
Whittemore, Walter L., and P. R. Glass, Quincy, assignors to C. Whittemore, Newton, Mass. Gage for eyeleting-machines	628,423	July 4	882	208	88	169
Whitten, Orlando R. F., Prescott, Ark. Quilting-frame for sewing-machines	634,930	Oct. 17	1743	414	89	379
Whittenham, James, New York, N. Y. Polishing device	619,378	Feb. 14	1080	243	86	1041
Whittier, Joseph G., assignor to himself and H. W. Harbaugh, Attica, Ind. Projectile or dart for blow-guns	637,312	Nov. 21	2107	454	89	1381
Whittier, William E., New York, N. Y. Atomizer	625,621	May 23	3020	687	87	1349
Whittier, Winfred P., Constantis, Ohio. Attachment for seed-drills	617,454	Jan. 10	1141	260	86	240
Whittington, George W., Indianapolis, Ind. Wire-fence-weaving machine	629,637	July 25	3137	730, 731	88	666
Whittington, James, Williford, Ark. Mechanism for increasing effectiveness of driving forces	632,608	Sept. 5	721	166	88	1849
Whittington, William E., assignor of one-half to W. C. Waggener, Kuttawa, Ky. Computing yard-measure	625,715	May 23	3175	721	87	1380
Whittle, James H., and G. Layng, Worcester, Mass.; said Layng assignor to said Whittle. Machine for rolling sheet-metal cylinders	626,260	June 6	71	17	87	1628
Whittle, John, Boston, England. Furnace-door	623,452	Apr. 18	2314	529	87	483
Whittle, John, Boston, England. Exhaust blast apparatus for locomotive-furnaces	625,913	May 30	3577	812	87	1474
Whittlesey, Lillian C., Washington, D. C. Device for exhibiting coins, &c	638,785	Dec. 12	1126	251	89	2106
Whittlesey, Nelson, Los Angeles, Cal. Trunk-binding device	634,598	Oct. 10	1166	277	89	249
Whittlesey, Thomas B., and F. Y. McKinstry, South Omaha, Nebr. Machine for skinning fat meat	625,622	May 23	3021	688	87	1350
Whittlesey, William A., *et al.* (See Cunningham, Patrick, assignor.)						
Whitton, David E., Somerville, Mass. Adjustable extension-rod for violoncellos or other musical instruments	620,393	Feb. 28	2904	666	86	1430
Whitworth, Thomas J. (See Linam and Whitworth.)						
Whomes, Henry, Winona, Minn. Power-hammer	616,998	Jan. 3	252	57,58	86	50
Whomes, Henry, Winona, Minn. Power-hammer	639,325	Dec. 19	2092	481	89	2311
Whorley, Eugene A., Roanoke, Va. Tether	636,020	Oct. 31	3851	885	89	819
Whyland, Frank V., Salisbury, Conn., assignor to G. B. Burrall, Lakeville, N. Y. Swaging-machine	629,838	Aug. 1	154	36,37	88	751
Whyman, Horatio O., Aurora, Ill. Lacing-hook	625,483	May 23	2773	631	87	1300
Whyman, John, *et al.* (See Lones, Joseph, assignor.)						
Whytal, Russ, New York, N. Y. Theatrical scenery	631,450	Aug. 22	3194	725, 726	88	1404
Whyte, Harry D. (See Calef, Josiah B., assignor.)						
Wiard, Henry D., North Temescal, Cal. Trunk-strap	619,243	Feb. 7	841	184	86	977
Wible, Simon W., Bakersfield, Cal. Mining apparatus	620,264	Feb. 28	2685	615, 616	86	1387
Wich, Ferdinand J., Manchester, England, assignor to Mergenthaler Linotype Company, New York, N. Y. Mechanism for casting curved linotypes	618,308	Jan. 24	2768	613, 614	86	589
Wich, Ferdinand J., Manchester, England, assignor to Mergenthaler Linotype Company, New York, N. Y. Trimming mechanism for linotype-machines	635,830	Oct. 31	3482	800, 801	89	746
Wichman, Herman W., assignor to Anthony Wayne Manufacturing Company, St. Louis, Mo. Washing-machine	627,789	June 27	2930	641, 642	87	2242
Wichman, Herman W., and A. H. Herron, assignors to Anthony Wayne Manufacturing Company, St. Louis, Mo. Washing-machine	627,788	June 27	2928	641	87	2242
Wicke, Carl H. D., Lehe, Germany. Machine for manufacturing tiles	620,817	Mar. 7	517	110	86	1603
Wickersham, Ewing M., Phoenix, Ariz. Ter. Fastening device for neckwear	636,600	Nov. 7	649	143	89	1053
Wickersham, Nathan R., and H. A. Jamison, Philadelphia, Pa. Pump for inflating pneumatic tires	624,417	May 2	860	193, 194	87	866
Wickham, Amos C., Carthage, Mo. Tag-holding clip	627,285	June 20	1962	432	87	2034
Wickham, Amos C., Carthage, Mo. Bucksaw	632,078	Aug. 29	4350	978	88	1638
Wicks, Frederick, Esher, England. Type-founding apparatus	618,926	Feb. 7	208	45	86	845
Wicks, Samuel, Cleveland, Ohio. Apparatus for recutting files by electrolysis	637,313	Nov. 21	2108	455	89	1381
Widdershoven, Louis, Antwerp, Belgium. Pneumatic saddle for bicycles	626,644	June 6	764	175	87	1762
Wideman, Gustavus, assignor to Wilcox Manufacturing Company, Aurora, Ill. Door-hanger	631,515	Aug. 22	3326	755	88	1430
Wideman, Gustavus, assignor to Wilcox Manufacturing Company, Aurora, Ill. Door-hanger	635,410	Oct. 24	2693	617	89	580
Widerstrom, Charles W. (See Gilbert and Widerstrom.)						
Widman, Albert, and J. C. Baker, Connersville, Ind. Rotary engine	633,631	Sept. 26	2717	633	88	2279
Widmann, Karl, Pattendorf, Austria-Hungary. Automatic lubricator for loose pulleys	625,373	May 23	2589	589	87	1265
Wiechel, Louis A., and D. Himmelheber, Evansville, Ind. Clothes-rack	618,756	Jan. 31	3596	803	86	763
Wiechers, Adolph F. T., New York, N. Y. Electric door-opener	629,638	July 25	3141	731, 732	88	666
Wiedebusch, A. H., *et al.* (See Schaefer, William and J., assignors.)						
Wiederhold, Oscar. (See Mulch and Wiederhold.)						
Wiedersheim & Fairbanks *et al.* (See Baldwin, Chalkley B., assignor.)						
Wiegand, Franz, and F. Dokenwadel, Philadelphia, Pa. Game-board	625,623	May 23	3023	688	87	1350
Wiegand, Hermann H. A., and W. A. Seifert, assignors to Wiegand & Seifert Maschinenbauanstalt Gesellschaft mit Beschränkter Haftung, Leipsic-Plagwitz, Germany. Machine for automatically turning balls	625,004	May 16	1926	432	87	1115
Wiegand, S. Lloyd, Philadelphia, Pa. Pipe-wrench	626,401	June 6	350	82	87	1681
Wiegand & Seifert Maschinenbauanstalt Gesellschaft mit Beschränkter Haftung. (See Wiegand and Seifert, assignors.)						
Wiemer, Christian and F., Cuyahoga Falls, Ohio. Floating carousel	621,726	Mar. 21	2195	495	86	1953
Wiemer, Frederick. (See Wiemer, Christian and F.)						
Wiener, Julius. (See Jadicke and Wiener.)						
Wier, Marshall A., Kingston-upon-Thames, England. Type-writing machine	619,855	Feb. 21	1962	445, 446	86	1237
Wierre, Adolphe, Paris, France. Manufacture of incandescent lamps	628,973	July 18	1917	446	88	410

Alphabetical list of patentees—Continued.

Name, residence, and invention.	No.	Date.	Monthly volume.		Official Gazette.	
			Spec.	Dr'g.	Vol.	Page.
Wiese, Ernst, Berlin, Germany. Self-lighting device for gas-burners	633,405	Sept. 19	2292	539	88	2183
Wiesen, Frank, Milwaukee, Wis. Heel	639,326	Dec. 19	2096	482	89	2311
Wieser, Joseph, Dolgeville, assignor, by mesne assignments, of one-half to H. Leonard, New York, N. Y. Pneumatic valve-action	639,477	Dec. 19	2390	550	89	2370
Wiessner, Oscar E. A., New York, N. Y. Bedstead-rail joint	626,043	May 30	3868	877	87	1528
Wiethop, Herman, *et al.* (See Armbruster, Peter, assignor.)						
Wigen, Louis, Afton, Minn. Washboiler	620,523	Feb. 28	3109	711	86	1469
Wigg, Thomas W., Rochester, N. Y. Chair	618,309	Jan. 24	2771	614	86	589
Wiggins, John, assignor of one-half to A. Bacon, Marshall, Mich. Handle-bar and post adjustment	638,156	Nov. 28	4065	857	89	1826
Wiggins, John B., Chicago, Ill. Book of address-cards	624,280	May 2	622	136	87	817
Wiggins, Josiah C., Eupora, Miss. Rail-joint	632,300	Sept. 5	178	40	88	1742
Wiggins, William H., New York, N. Y., assignor to Brunswick-Balke-Collender Company, New York, N. Y., and Cincinnati, Ohio. Bowling-alley	623,933	Apr. 25	3209	739	87	672
Wight, Norman, Bournemouth, England. Photographic developing apparatus	616,999	Jan. 3	259	58, 59	86	52
Wight, William D., Pontypridd, and M B Wild, Birmingham, England. Steam-engine	628,974	July 18	1918	{ 446 { 447	{ 88	410
Wight, William P., *et al.* (See Lloyd, William H., assignor.)						
Wightman, Albert M., Richmond, Ohio. Combined brush and currycomb	638,305	Dec. 5	226	47	89	1910
Wightman, Luther H., Boston, Mass. Intrenching-tool	623,752	Apr. 25	2828	648	87	599
Wigle, Horatio. (See McQueen James W., assignor.)						
Wiglesworth, John. (See Argo, John T., assignor.)						
Wigmore, William H., Philadelphia, Pa. Apparatus for exercising the tympanum	627,790	June 27	2932	642	87	2243
Wigner, Joseph W., Wabash, Ind. Burglar-alarm	634,635	Oct. 10	1226	291	89	261
Wigzell, Eustace E., London, England. Connecting-rod	624,593	May 9	1188	267	87	953
Wilber, Isaac L., Boston, Mass. Thill-coupling	633,104	Sept. 12	1701	401	88	2056
Wilber, Louise M., Buffalo, N. Y. Scaffold	623,269	Apr. 18	1990	{ 456 { 457	{ 87	417
Wilberforce, William B., Bognor, England. Support for saddles for cycles	617,000	Jan. 3	262	59	86	53
Wilbern, Thomas, Carpentersville, Ill. Door-hanger	632,609	Sept. 5	722	167	88	1849
Wilbraham Baker Blower Company. (See Green, Thomas W., assignor.)						
Wilbur, Alphonso V., assignor to H. C. Shaw, Stockton, Cal. Gang-plow	617,377	Jan. 10	997	229	86	213
Wilbur, Alphonso V., assignor to H. C. Shaw, Stockton, Cal. Rotary disk harrow	617,378	Jan. 10	998	229	86	214
Wilbur, Alphonso V., assignor to H. C. Shaw, Stockton, Cal. Gang-plow	617,379	Jan. 10	1000	229	86	214
Wilbur, Alphonso V., assignor to H. C. Shaw, Stockton, Cal. Plow	632,389	Sept. 5	328	74	88	1771
Wilbur, George H., *et al.* (See Camp, Key D., assignor.)						
Wilbur, James F., Marathon, N. Y. Back-pedaling brake	628,056	July 4	173	37	88	35
Wilbur, Peter L. (See Kelso and Wilbur.)						
Wilby, Thomas. (See Morris, James E., assignor.)						
Wilcke, Adolph, Chicago, Ill. Non-refillable bottle	618,757	Jan. 31	3597	803	86	763
Wilckens, Carl B. T. (See Weyhe, Hermann C. W., assignor.)						
Wilcomb, Frank, Pawtucket, R. I. Circular-knitting machine	629,116	July 18	2186	507	88	464
Wilcox, Elmer A., Davenport, assignor to himself and J. E. Steer, West Branch, Iowa. Rotary engine	639,327	Dec. 19	2097	482	89	2311
Wilcox, Ernest C. (See Egan, Lawton, and Wilcox.)						
Wilcox, Ernest C. (See Lawton and Wilcox.)						
Wilcox, George H., *et al.* (See Harvey, John H., assignor.)						
Wilcox, Henry L., Great Barrington, Mass. Bicycle-rack	620,863	Mar. 7	609	132	86	1622
Wilcox, John D., Pine City, Minn. Potato-digger	632,034	Aug. 29	4266	959	88	1623
Wilcox Manufacturing Company. (See Wideman, Gustavus, assignor.)						
Wilcox, Mary C. *et al.* (See Harvey, John H., assignor.)						
Wilcox, Melvin L., assignor to National Cycle Manufacturing Company, Bay City, Mich. Crank-shaft and bearing for cycles	627,946	June 27	3219	705	87	2302
Wilcox, Myron H., and J. C. Stewart, Livingston county, Mo. Fishing-reel	632,079	Aug. 29	4351	978	88	1639
Wilcox, Samuel W., Mendon, Mass. Reel for chalk-lines, plumb-bobs, &c	625,484	May 23	2776	632	87	1300
Wild & Co. (See Wild, Johann, assignor.)						
Wild, Henry, Johnstown, Pa. Electric alarm or signal	639,124	Dec. 12	1714	395	89	2220
Wild, Johann, assignor to Wild & Co., Suhr, Switzerland. Head for compasses	621,006	Mar. 14	889	193	86	1686
Wild, Matthew B. (See Wight and Wild.)						
Wildanger, William, *et al.* (See Menzer, Frederick, assignor.)						
Wilde, Louis J., New York, N. Y. Cable-grip	623,855	Apr. 25	3070	707	87	646
Wilde, Walter B. (See Long, Calvin C., assignor.)						
Wilde, Warren S., Scoville, N. D. Body for buggies or carriages	628,217	July 4	477	114	88	95
Wilder, Frank L., Worcester, Mass. Counting and detecting apparatus	630,578	Aug. 8	1634	366	88	1055
Wilder, Henry W. (See Burgess and Wilder.)						
Wilder, John K., Monroe, Mich. Land-roller	625,485	May 23	2777	632	87	1301
Wilder, William H., Gardner, Mass. Oil-stove	617,977	Jan. 17	2123	476	86	454
Wilder, William H., Gardner, Mass. Oil-stove	618,020	Jan. 17	2202	492	86	468
Wilder, William H., and C. K. Stinson, Gardner, Mass.; said Stinson assignor to said Wilder. Oil-stove	617,976	Jan. 17	2122	476	86	453
Wildermuth, Adolf, assignor of one-half to G. F. Kuett and W. E. Fischer, Paterson, N. J. Rotary engine	625,820	May 30	3401	772	87	1441
Wildermuth, William, Rochester, Ind. Clothes-rack	630,430	Aug. 8	1363	304	88	1002
Wilderson, David A., Edmond, Okla. Ter. Window-curtain bracket	638,826	Dec. 12	1193	267	89	2119
Wildey, Edward M., Dunedin, New Zealand. Back-pedaling brake	630,431	Aug. 8	1364	305	88	1003
Wildin, George W. (See Symons and Wildin.)						
Wilding, John, Pittsburg, Pa., assignor of one-half to C. Ramsey, New York, N. Y. Corner-clamp	631,352	Aug. 22	3015	683	88	1368
Wildman, Andrew. (See Hayden and Wildman.)						
Wile, William W., Auburn, Ind. Grate-bar	635,989	Oct. 31	3797	874	89	809
Wiles, Thomas S. (See Wendell and Wiles. (Reissue.)						
Wiles, Thomas S., Albany, N. Y. Sad-iron heater	632,545	Sept. 5	630	147	88	1831
Wiley, Clarence H., Hartford, Conn. Letter-file	625,374	May 23	2590	590	87	1265
Wiley, Clarence H., Hartford, Conn. Shoe-sole	625,821	May 30	3404	773	87	1441
Wiley, Edgar C., assignor of one-half to H. E. McWane, Lynchburg, Va. Valve-indicator post	630,278	Aug. 1	1000	221	88	920
Wiley, Edmund W., Jr., Lecompte, La. Hoisting trip and sling	617,267	Jan. 3	765	178	86	151
Wiley, Edmund W., Jr., Lecompte, La. Hoisting-drum	632,910	Sept. 12	1342	308	88	1986
Wiley & Russell Manufacturing Company. (See Smart, Albert J., assignor.)						
Wilfert, Frank, Leominster, Mass. Toy rocking-horse	618,155	Jan. 24	2495	554	86	538
Wilhelm, David K., and S. A. Louder, Cresson, Pa. Wrench	632,610	Sept. 5	724	167	88	1850
Wilhelm, George, New York, N. Y. Coin-operated cigar-vending machine	632,798	Sept. 12	1126	259	88	1946
Wilhelm, Jacob, New Freedom, Pa., and J. F. Wilhelm, Baltimore, Md., assignors of one-third to A. M. Falkenstein, Glen Rock, Pa. Friction-gearing	625,076	May 16	2050	461	87	1137
Wilhelm, John F. (See Wilhelm, Jacob and J. F.)						
Wilhelm, Joseph, assignor of one-half to M. Williams, Wheaton, Minn. Gate	621,727	Mar. 21	2195	495	86	1953

Alphabetical list of patentees—Continued.

Name, residence, and invention.	No.	Date.	Monthly volume. Spec.	Monthly volume. Drg.	Official Gazette. Vol.	Official Gazette. Page.
Wilka, William C., Rock Rapids, Iowa. Threshing-machine	639,838	Dec. 26	3054	702, 703	89	2520
Wilka, William C., Rock Rapids, Iowa. Band-cutter and feeder	639,839	Dec. 26	3060	703, 704	89	2521
Wilka, William C., Rock Rapids, Iowa. Automatic straw-stacker attachment	639,840	Dec. 26	3065	704	89	2522
Wilke, Ferdinand, assignor of three-fourths to S. G. Tibbs, L. A. Wecht, and J. Grether, Akron, Ohio. Electric-circuit-closing device	627,837	June 27	3019	659	87	2260
Wilke, William E. (See Hillebrand and Wilke.)						
Wilken, George, New York, N. Y. Drum	627,766	June 27	2892	632	87	2236
Wilken, Harmann R., Sterling, Ill. Toy bank	618,529	Jan. 31	3194	706	86	684
Wilkens, Reinhard J., Baltimore, Md. Game-counter	633,058	Sept. 12	1581	368	88	2033
Wilkes, Moses, Trenton, N. J. Cut-off for locomotive-engines	628,509	July 11	1170	274	88	24¢
Wilkes, Moses, Trenton, N. J. Swing and expansion joint	637,541	Nov. 21	2531	548	89	1465
Wilkey, William M., Yeddo, Ind. Soil-breaking machine	637,840	Nov. 28	3447	720	89	1707
Wilkie, Abraham L., Winnepeg, Canada. Horse-detacher	630,432	Aug. 8	1365	305	88	1003
Wilkie, Fredrick, New York, N. Y. Commutator-grinding rig	632,666	Sept. 5	845	198	88	1876
Wilkin, Theodore S., Brookville, Pa. Log turner and loader	617,844	Jan. 17	1885	420	86	406
Wilkin, Theodore S., Brookville, Pa. Log turner and loader	617,845	Jan. 17	1887	421	86	407
Wilkin, Theodore S., Brookville, Pa. Log turner and loader	617,846	Jan. 17	1888	421	86	407
Wilkins, Alexander G., Meadville, Pa. Carpet-sweeper	631,837	Aug. 29	3914	875	88	1554
Wilkins, Alexander G., Meadville, Pa., and L. E. Moore, Industry, Kans.; said Wilkins assignor to said Moore. Safety attachment for bicycles	617,136	Jan. 3	535	127	86	105
Wilkins, Alfred T., and D. Dever, Philadelphia, Pa. Automatic weighing and cut-off apparatus	632,773	Sept. 12	1075	249	88	1935
Wilkins, Charles L., Columbus, Ohio. Motor	620,204	Feb. 28	2587	588	86	1368
Wilkins, Charles L., Columbus, Ohio. Acetylene-gas generator	636,601	Nov. 7	650	143	89	1054
Wilkins, Frank R., *et al.* (See Lones, Joseph, assignor.)						
Wilkins, Henry G. G., London, England. Lamp for signaling purposes	637,912	Nov. 28	3589	752	89	1736
Wilkins, William, and N. C. Poe, Greenville, S. C. Cultivator	629,639	July 25	3143	732	88	667
Wilkinson, Abraham, assignor to Cochran Company, Lorain, Ohio. Expansion-valve	632,860	Sept. 12	1235	283	88	1968
Wilkinson, Alfred, Bradford, England. Warp stop-motion for looms	628,731	July 11	1481	343	88	309
Wilkinson, Arista D., Fruits, Ind. Fence-machine	617,001	Jan. 3	263	59	86	53
Wilkinson, Arnold, New Castle, Ind. Cultivator	630,788	Aug. 8	1986	449	88	1123
Wilkinson, Edwin H., Detroit, Mich. Embossing-die for burnishing-rolls	628,593	July 11	1205	282	88	253
Wilkinson, George W., Pomeroy, Iowa. Printer's chase and form-lock	625,005	May 16	1928	432	87	1115
Wilkinson, Joseph, administrator. (See Sisum, William H. H.)						
Wilkinson, Melville L. (See Luitwieler and Wilkinson.)						
Wilkinson, Melville L., Los Angeles, Cal. Motive-power mechanism	624,594	May 9	1189	268, 269	87	953
Wilkinson, Sydney W., Sheffield, England. Valve-gear for slide-valves	626,261	June 6	74	18	87	1629
Wilkinson, Thomas D., Portland, Me. Telegraph-wire joint	635,007	Oct. 17	1884	448	89	408
Wilkinson, Walter H., Altoona, Pa., assignor to Russell & Erwin Manufacturing Company, New Britain, Conn. Door-knob	632,301	Sept. 5	180	40	88	1743
Wilkinson, Walter H., and H. L. Gee, assignors to Diamond Truck and Car Gear Company, Kingston, N. Y. Double truck	639,639	Dec. 19	2673	613, 614	89	2428
Wilkinson, William H., Brookline, Mass. Jackknife	633,931	Sept. 26	3217	750	88	2380
Wilks, Francis M. (See Wilks, John A. and F. M.)						
Wilks, John A. and F. M., Siloam Springs, Ark. Bed-brace	620,521	Feb. 28	3106	711	86	1469
Willans & Robinson. (See Street, John H., assignor.)						
Willard, Ben, New Orleans, La., assignor to General Electric Company, of New York. Vault-cover	637,841	Nov. 28	3450	720, 721	89	1707
Willard, Horatio L., Somerville, Mass. Draft-tube for soda-fountains	617,790	Jan. 17	1786	400	86	386
Willard, James M., Decatur, Ill. Electric-arc lamp	634,157	Oct. 3	322	81, 82, 83	89	67
Willard, Theadore A., Norwalk, assignor to Sipe & Sigler, Cleveland, Ohio. Means for producing battery-electrodes	617,002	Jan. 3	265	59,60	86	53
Willard, Theadore A., assignor to Sipe & Sigler, Cleveland, Ohio. Tubular electrode for storage batteries	617,003	Jan. 3	269	60	86	54
Willard, Theadore A., assignor to Sipe & Sigler, Cleveland, Ohio. Storage-battery electrode	617,004	Jan. 3	269	60,61	86	54
Willard, William A. P., Jr., Hull, Mass. Trolley-rail for electric roads	630,153	Aug. 1	799	172, 173	88	880
Willbrandt, Emil, St. Louis, Mo. Surgical heating apparatus	636,307	Nov. 7	138	30	89	949
Willbur, James M., New York, N. Y. Curtain-pole	638,488	Dec. 5	579	120	89	1977
Willcox & Gibbs Sewing Machine Company. (See Borton, Stockton, assignor.)						
Willebrand, Theodor, Grand Rapids, assignor, by mesne assignments, to Feed Water Purifier Company, Kalamazoo, Mich. Feed-water heater and purifier	627,167	June 20	1759	386	87	1993
Willeford, Edgar L., deceased, (J. W. Willeford, executor,) assignor of one-half to J. H. Williams, Atlanta, Ga. Pianoforte-action	617,411	Jan. 10	1069	244	86	227
Willeford, John W., executor (See Willeford, Edgar L.)						
Willeke, John U. (See Waschau, Fredrick W., assignor.)						
Willemain, Louis, Westfield, Mass. Loom-temple	620,005	Feb. 21	2215	503	86	1283
Willems, Edouard, Antwerp, Belgium. Manufacture of bricks, &c	638,370	Dec. 5	357	------	89	1934
Willer, Henry E., Milwaukee, Wis. Hanger for storm-sashes	617,211	Jan. 3	663	154	86	129
Willer, Henry E., Milwaukee, Wis. Screen-frame, &c	636,879	Nov. 14	1240	267	89	1199
Willett, Robert A., New York, N. Y., assignor to Hercules Brick Machine Company, of New York. Brick-machine	621,728	Mar. 21	2196	495, 496	86	1953
Willetts, George A., Beaver Falls, Pa. Clutch	625,228	May 16	2312	526	87	1187
Willey, Almon. (See Willey, George W., assignor.)						
Willey, George W., Athol, assignor to A. Willey, Brockton, Mass. Sewing-machine	628,975	July 18	1920	447	88	411
Willey, John W. (See Waldran and Willey.)						
William B. Pollock Company. (See McKelvey, William W., assignor.)						
William Glenny Glass Company. (See Brockmann, Henry F., assignor.)						
William Goodacre & Sons. (See Walker, Kennedy, assignor.)						
William Powell Company. (See Powell, James, assignor.)						
William Resor & Company (See Resor, Charles H., assignor.)						
William Schollhorn Company. (See Bernard, William A., assignor.)						
William Sellers & Company. (See Bancroft, John S., assignor.)						
William Sellers & Company. (See Kneass, Strickland L., assignor.)						
William Sellers & Company. (See Sellers and Bancroft, assignors.)						
William Sellers & Company. (See Sellers and Lewis, assignors.)						
William Wharton, Jr., & Company, Incorporated. (See Nichols, Henry B., assignor.)						
Williams, Albert J., Fulton, N. Y. Self-soaping washboard	617,791	Jan. 17	1787	400	86	386
Williams, Albert W., *et al.* (See Bates, Alonzo L., assignor.)						
Williams, Alexander E. (See Schneider, Carl F. and H. L., assignors.)						
Williams, Arthur W., Meadville, Pa. Combined kneading-board and dough-raiser	621,395	Mar. 21	1585	351	86	1834

Alphabetical list of patentees—Continued.

Name, residence, and invention.	No.	Date.	Monthly volume.		Official Gazette.	
			Spec.	Dr'g.	Vol.	Page.
Williams, Benjamin F., Quanah, Tex. Acetylene-gas generator	620,394	Feb. 28	2906	666	86	1430
Williams, Benjiman F., Norwood, Colo. Sickle-head	637,951	Nov. 28	3657	767	89	1748
Williams, Bettie C., Deer Lodge, Mont. Portable bath-cabinet	618,968	Feb. 7	309	67	86	870
Williams, Charles L. (See Williams, William R., assignor.)						
Williams, Charles M., Los Angeles, assignor to Star Novelty Company, Los Angeles, Cal., and Phœnix, Ariz. Trap	621,396	Mar. 21	1586	351	86	1834
Williams, Charles M., Los Angeles, Cal., assignor to Star Novelty Company, Los Angeles, Cal., and Phœnix, Ariz. Ter. Mop-head	635,216	Oct. 17	2293	535	89	486
Williams, Charles R., Georgel, Va., assignor of one-fourth to C. W. Shafer, Landgraff, W. Va. Mine-car check-holder	634,049	Oct. 3	114	29	89	26
Williams Concentrator and Amalgamation Company. (See Williams, George W., assignor.)						
Williams, Daniel T., Craig, Ga. Tellurian	621,007	Mar. 14	890	193	86	1686
Williams, Daniel W., Richmond, Ind. Bicycle tire-shield	631,142	Aug. 15	2634	596	88	1274
Williams, David S. (See Hewes and Williams.)						
Williams, David S., assignor to himself and J. A. Vincent, Philadelphia, Pa. Graphophone	619,916	Feb. 21	2066	468, 469	86	1255
Williams, David S., assignor to himself and J. A. Vincent, Philadelphia, Pa. Valve	627,561	June 27	2516	553	87	2160
Williams, David S., assignor to himself and J. A. Vincent, Philadelphia, Pa. Petroleum incandescent lamp	634,125	Oct. 3	266	66	89	56
Williams, David S., assignor to himself and J. A. Vincent, Philadelphia, Pa. Hydrocarbon incandescent lamp	637,952	Nov. 28	3658	768	89	1749
Williams, Douglas D. (See McKee, John A., assignor.)						
Williams, Edgar L., Peoria, Ill. Game apparatus	637,982	Nov. 28	3713	781	89	1759
Williams, Edmund, assignor of one-half to Salem Wire Nail Company, Findlay, Ohio. Machine for forming die-barbs	617,622	Jan. 10	1444	329, 330	86	301
Williams, Edward F. (See McAnelly and Williams.)						
Williams, Edward L., Chicago, Ill. Acetylene-gas generator	618,593	Jan. 31	3306	735	86	705
Williams, Edward L., Chicago, Ill. Acetylene-gas-generator lamp	618,594	Jan. 31	3307	735	86	706
Williams, Edward L., Kenosha, Wis. Acetylene-gas lamp	618,595	Jan. 31	3309	736	86	706
Williams, Edward L., Kenosha, Wis. Acetylene-gas generator	618,596	Jan. 31	3310	736	86	706
Williams, Edwin H., assignor of one-third to J. B. Simonds, Hartford, Conn. Screw-cutting tool	635,272	Oct. 17	2382	556	89	503
Williams Electric Company. (See Williams, Joseph A., assignor.)						
Williams, Eli H., and R. D Murray, Watertown, Tenn. Vine-support or trellis	619,379	Feb. 14	1082	244	86	1041
Williams, Ellsworth S., Fairmount, Kans. Flower-pot	632,978	Sept. 12	1447	335	88	2006
Williams, Elmer H. (See McLaughlin and Williams.)						
Williams, Evan R., Knoxville, Pa. Scale-remover for steam-boilers	631,100	Aug. 15	2569	581	88	1261
Williams, Everett V., Iuka, Miss. Fertilizer-distributer	636,602	Nov. 7	652	143	89	1054
Williams, Floyd C., Smithdale, Miss. Bedstead-brace	621,397	Mar. 21	1588	351	86	1835
Williams, Frank T., Meriden, Conn. Lamp-burner	628,424	July 4	886	208	88	169
Williams, Franklin F., St. Louis, Mo. Shutter-operating device	620,006	Feb. 21	2217	504	86	1284
Williams, Fred D., Cooperstown, N. D. Weeding-hoe	634,158	Oct. 3	329	83	89	68
Williams, Fredrick, Revere Mass. Electrically-controlled lock collecting or other box	638,408	Dec. 5	423	88	89	1946
Williams, George, Jr. (See Rees, Burt L., assignor.)						
Williams, George H., *et al.* (See Elliott, Sterling, assignor.)						
Williams, George M., assignor to American Tobacco Company, Newark, N. J. Cigarette, cigar, or tobacco box	618,215	Jan. 24	2602	576	86	556
Williams, George W., *et al.* (See Humphrey, Harry J., assignor.)						
Williams, George W., Humansville, Mo. Wire-fence-stay attacher and spacer	638,371	Dec. 5	357	74	89	1934
Williams, George W., Humansville, Mo. Wire-stay-making device	638,538	Dec. 5	665	139	89	1993
Williams, George W., Newville, Va. Peanut-harvester	639,691	Dec. 19	2781	641, 642	89	2448
Williams, George W., Payette, Idaho, assignor to Williams Concentrator and Amalgamation Company, Limited, of Idaho. Amalgamator	621,985	Mar. 28	2711	612	86	2066
Williams, George W., Payette, Idaho, assignor to Williams Concentrator and Amalgamation Company, Limited, of Idaho. Concentrator	621,986	Mar. 28	2713	612	86	2066
Williams, Griffith W., Indianapolis, Ind. Twyer-iron	620,686	Mar. 7	262	53	86	1553
Williams, Harry F., Hartford, Conn. Game-box	618,969	Feb. 7	312	67	86	871
Williams, Harry J., Meriden, Conn. Cork-extractor	619,648	Feb. 14	1557	354, 355	86	1131
Williams, Hattie, Hudson, N. Y. Coat-sleeve holder	623,058	Apr. 11	1565	361	87	319
Williams, Henry A., Quincy, assignor to Putnam Nail Company, Boston, Mass. Machine for forging horseshoe-nails or other articles	625,229	May 16	2314	526, 527, 528, 529	87	1187
Williams, Henry M. (See Burger, Franz, assignor.)						
Williams, Henry M. (See Burger and Williams.)						
Williams, Henry M., assignor of one-fourth to F. Burger, Fort Wayne, Ind. Gas-stove and ventilator	630,017	Aug. 1	545	121	88	831
Williams, Henry M., assignor of one-fourth to F. Burger, Fort Wayne, Ind. Rail-joint	631,353	Aug. 22	3016	684	88	1368
Williams, Henry M., assignor of one-fourth to F. Burger, Fort Wayne, Ind. Coffin	636,603	Nov. 7	654	144	89	1054
Williams, Henry M., assignor of one-fourth to F. Burger, Fort Wayne, Ind. Rail and railway-curve	638,827	Dec. 12	1194	267	89	2119
Williams, Henry S., New Haven, Conn. Photographic process	640,060	Dec. 26	3453	------	89	2602
Williams, Herbert B., Castle Gate, Utah. Telemeter	631,192	Aug. 15	2717	615	88	1291
Williams, Horace D. (See Kight, William K., assignor.)						
Williams, Hubbard D. B., and C F Grueninger; said Williams assignor to A. Kallmerten, Mansfield, Ohio. Combined submerged lifting and force pump	619,033	Feb. 7	451	95	86	898
Williams, J. H. (See Willeford, Edgar L., assignor.)						
Williams, James F. (See Tichenor and Williams.)						
Williams, James M., T. P. Kinney, Danville, and H. W. Kinney, Lynchburg, assignors of one-fourth to J. A. Henderson, Danville, Va. Automatic railway-signal	636,604	Nov. 7	655	144, 145	89	1055
Williams, James P., Boston, Mass. Pillow-sham holder	634,784	Oct. 10	1485	350	89	312
Williams, Jesse B., Alumbank, Pa. Hen's nest	626,119	May 30	4031	920	87	1556
Williams, John A., assignor to T. Adams, Jr., New York, N. Y. Self-lighting gas-burner	627,630	June 27	2663	584	87	2190
Williams, John A., assignor to T. Adams, Jr., New York, N. Y. Self-lighting gas-burner	627,631	June 27	2664	584	87	2190
Williams, John A., assignor to T. Adams, Jr., New York, N. Y. Self-lighting gas-burner	627,632	June 27	2665	585	87	2190
Williams, John C. (See Dudley, John W., assignor.)						
Williams, John D., Sherrodsville, Ohio. Miner's lamp	622,742	Apr. 11	1006	234	87	211
Williams, John E. (See Worthington and Williams.)						
Williams, John F., Sandusky, Ohio. Bicycle-support	624,595	May 9	1196	269	87	954
Williams, John F., Kansas City, Kans., assignor to Economy Gas Lamp Company, Kansas City, Mo. Gas-burner	618,758	Jan. 31	3598	803	86	763
Williams, John L., Clinton, Ky. Wagon-jack	630,154	Aug. 1	801	173	88	881
Williams, John T., New York, N. Y. Helix for electrical apparatus	617,067	Jan. 3	403	98	86	78

Alphabetical list of patentees—Continued.

Name, residence, and invention.	No.	Date.	Monthly volume.		Official Gazette.	
			Spec.	Dr'g.	Vol.	Page.
Williams, Joseph, Jr., Pittshurg, Pa. Gas-engine	636,478	Nov. 7	426	94	89	1007
Williams, Joseph A., assignor to Williams Electric Company, Cleveland, Ohio. Telephone-receiver	631,354	Aug. 22	3017	684	88	1369
Williams, Joseph A., assignor to Williams Electric Company, Cleveland, Ohio. Telephone-receiver	631,355	Aug. 22	3019	684	88	1369
Williams, Joseph A., assignor to Williams Electric Company, Cleveland, Ohio. Magneto-electric generator	632,667	Sept. 5	847	198	88	1876
Williams, Katharine, New York, N. Y. Hook	629,640	July 25	3145	732	88	667
Williams, Katharine, New York, N. Y. Skirt-supporter and shoulder-brace	629,641	July 25	3145	733	88	667
Williams, Lee H., Indianapolis, Ind., assignor of one-half to McElwaine-Richards Company, of Indiana. Water-closet	626,645	June 6	764	175	87	1762
Williams, Lewis, Johnstown, Pa. Attachment for metal-punching machines	627,033	June 13	1520	331	87	1927
Williams, Lily, Lake View, N. J. Shade or curtain fixture	626,742	June 13	954	217	87	1817
Williams, Llewellyn W., Cathcart, Scotland. Pulley-frame for carrying signal-wires, &c.	631,193	Aug. 15	2719	615	88	1291
Williams, Louis N. D., *et al.* (See Swinglehurst, Harry, assignor.)						
Williams, Mae R., Leitchfield, Ky. Colander	618,310	Jan. 24	2772	614	86	590
Williams Manufacturing Company. (See Cannon, Warren B., assignor.)						
Williams, Martin. (See Wilhelm, Joseph, assignor.)						
Williams, Martin L., Tacoma, Wash. Coupling for chains for bicycles, &c.	623,856	Apr. 25	3072	707	87	646
Williams, Morgan, Aspen, Colo. Wrench	639,640	Dec. 19	2677	614	89	2429
Williams, Nathan G., Bellows Falls, Vt. Centrifugal cream-separator	624,596	May 9	1197	269, 270	87	954
Williams, Oscar C., *et al.* (See Smith, William F., assignor.)						
Williams, Ransom M., Aiken, S. C. Steaming vessel	619,455	Feb. 14	1219	277	86	1066
Williams, Richard, *et al.* (See Hamann, Richard W., assignor.)						
Williams, Robert G., Stockton, Cal. Shake-regulator for grain-cleaners	631,492	Aug. 22	3278	746	88	1420
Williams, Samuel, New Orleans, La. Take-up for sewing-machines	634,785	Oct. 10	1486	350	89	312
Williams, Stephen, Wyandotte, Mich. Hammock-support	617,475	Jan. 10	1176	268	86	248
Williams, Stephen T., New York, N. Y. Card-record	623,857	Apr. 25	3073	708	87	646
Williams, Stephen T., New York, N. Y. Card-record	624,597	May 9	1198	270	87	955
Williams, Sylvester M. (See Cranston and Williams.)						
Williams, Thomas, Cannonsburg, Pa. Rolls for making terne plates	623,389	Apr. 18	2205	506	87	460
Williams, Thomas F., Chicago, Ill. Acetylene-gas generator	619,814	Feb. 21	1884	430	86	1220
Williams, Thomas H., London, England. Gear for cycles	628,135	July 4	337	80, 81	88	68
Williams, Warren C., assignor of one-half to F. C. Sherman, Toledo, Ohio. Dish-cleaner	628,292	July 4	647	151	88	125
Williams, Wesley J., Defiance, Iowa. Indicating-sign for post-office boxes	620,522	Feb. 28	3108	711	86	1469
Williams, William E. (See McCalment and Williams.)						
Williams, William E., Chicago, Ill. Soft-tread horseshoe	637,913	Nov. 28	3590	752	89	1736
Williams, William F., London, England. Bicycle-support	617,916	Jan. 17	2031	454	86	435
Williams, William F., London, England. Elastic tire and rim for wheels	627,838	June 27	3021	660	87	2260
Williams, William H., Mishawaka, Ind. Mowing-machine	636,190	Oct. 31	4195	963	89	889
Williams, William L., Winona, Minn. Furnace implement	622,094	Mar. 28	2885	650	86	2101
Williams, William R., assignor of one-half to C. L. Williams, Philipsburg, Pa. Vegetable-cutter	630,155	Aug. 1	803	173	88	881
Williams, William W., Indianapolis. Ind. Soap-cutting machine	628,507	July 11	1033	240, 241	88	219
Williams, Wm D., Fredericksburg, Va., assignor of one-half to J. H. Stephens, Vernon, Tex. Valved coupling for train-pipes	631,688	Aug. 22	3628	817, 818	88	1490
Williamson Brothers Company. (See Williamson, John D., Jr., assignor.)						
Williamson, Charles D., Poughkeepsie, N. Y. Adjustable partition-frame for trunks	619,456	Feb. 14	1220	277	86	1067
Williamson, Daniel, Sunhury, Pa., assignor of one-half to S. M. Slagle. Potato-paring machine	633,932	Sept. 26	3218	750	88	2380
Williamson, Edward G. (See Williamson, Russell B., assignor.)						
Williamson, Elmer S. (See Nichols and Williamson.)						
Williamson, Frank W., assignor to M. P. Williamson, Milwaukee, Wis. Soda-fountain	626,315	June 6	175	42, 43	87	1646
Williamson, George H. (See Nelthorpe and Williamson.)						
Williamson, George W., assignor to Pneumatic Elevator and Weigher Company, Indianapolis, Ind. Bearing for throwing-wheels for pneumatic elevators	636,372	Nov. 7	248	54	89	971
Williamson, Harry M., Denver, Colo. Ore-pulverizer	631,239	Aug. 15	2792	633	88	1306
Williamson, Henry C., and H. Pries, Michigan City, Ind. Draft-rigging for cars	628,237	July 4	515	125	88	103
Williamson, James E., Allegheny, Pa. Electric brake	632,932	Sept. 12	1375	317, 318	88	1992
Williamson, Jas. F. (See Casey, James, assignor.)						
Williamson, John, Glasgow, Scotland. Filter-press	628,057	July 4	174	37, 38, 39, 40	88	36
Williamson, John D., Jr., assignor to Williamson Brothers Company, Philadelphia, Pa. Regulating-valve for steering-gear	623,454	Apr. 18	2316	530	87	484
Williamson, John D., Jr., assignor to Williamson Brothers Company, Philadelphia, Pa. Power steering mechanism	626,951	June 13	1381	304	87	1900
Williamson, John H. (See Addicks and Williamson.)						
Williamson, Mary P. (See Williamson, Frank W., assignor.)						
Williamson, Russell B., assignor of one-half to E. G. Williamson, Clifton Springs, N. Y. Cake-tin	632,505	Sept. 5	532	122	88	1812
Williamson, William, Hawkeye, Iowa. Hoisting apparatus	617,380	Jan. 10	1002	230	86	214
Willimantic Linen Company. (See Baker, Dickerson G., assignor.)						
Willis, Addison, Bristol, England. Metallic tube-brush	637,314	Nov. 21	2109	455	89	1382
Willis, Charles M., Browns, Ill. Attachment for watch-lathes	634,787	Oct. 10	1491	351	89	313
Willis, Clarence R., Mansfield, Mass. Manual propelling mechanism for boats	636,479	Nov. 7	428	95	89	1008
Willis, Harry, Des Moines, Iowa. Collar-button and necktie-holder	634,931	Oct. 17	1745	414	89	379
Willis, M. C., *et al.* (See Steele, John B., assignor.)						
Willis, Nathaniel, Edenville, assignor of one-half to W. H. Peck, Sanford, Mich. Churn	625,624	May 23	3024	689	87	1350
Willis, R. C. (See Bowman, Madison and J., assignors.)						
Willis, Rohert, New York, N. Y. Pipe-wrench	627,371	June 20	2153	474	87	2073
Williston, Belvin T. (See Park and Williston.)						
Williston, Benjamin F., Jackson, assignor to Detroit Pipe Carrier Company, Detroit, Mich. Pipe-carrier	629,408	July 25	2712	630	88	584
Willits, Van Burton, assignor to Hay & Willits Manufacturing Company, Indianapolis, Ind. Vehicle-wheel brake	625,284	May 16	2423	549	87	1207
Willits, Van Burton, assignor to Hay & Willits Manufacturing Company, Indianapolis, Ind. Vehicle-wheel brake	625,285	May 16	2426	549	87	1207
Willitz, Herman C. (See Schottle and Willitz.)						
Willman, Joseph, Solms, assignor of one-half to J. W. Halm, New Braunfels, Tex. Hoe	635,949	Oct. 31	3706	856	89	790
Willmann, Joseph, Solms, Tex. Equalizer for windmill-operated pumps	617,496	Jan. 10	1204	274	86	254
Willment, George M., assignor of one-half to R. Hofmeyer, New York, N. Y. Pipe-hanger	622,743	Apr. 11	1007	234	87	211

Alphabetical list of patentees—Continued.

Name, residence, and invention.	No.	Date.	Monthly volume. Spec.	Monthly volume. Dr'g.	Official Gazette. Vol.	Official Gazette. Page.
Willner, Sigmund, London, England, assignor to Willner Wood Company, of New Jersey. Apparatus for impregnating wood	620,627	Mar. 7	143	29,30	86	1530
Willner Wood Company. (See Weiss, Julius H., assignor.)						
Willner Wood Company. (See Willner, Sigmund, assignor.)						
Willoughby, D. Clarence, *et al.* (See Painton, Richard B., assignor.)						
Willower, Wilbert A., Lima, Ohio. Device for making free-hand relief decorations	634,786	Oct. 10	1489	351	89	312
Wills, Jessie T., assignor of one-half to A. M. Robinson, West, Tex. Washing-machine	635,432	Dec. 5	473	96	89	1957
Wills, Joseph, assignor of one-half to L. B. Stillwell, Niagara Falls, N. Y. Electrical measuring instrument	626,848	June 13	1172	261	87	1858
Willson, Henry H. (See Linvill, William M., assignor.)						
Willson, Howard T., *et al.* (See Ellis, Charles S., assignor.)						
Willson, Joseph. (See Nichol and Willson.)						
Willson, William H. (See Conly, Mahlon S., assignor.)						
Willstätter, Richard, Munich, assignor to Firm of E. Merck, Darmstadt, Germany. Tropin ketone and making same	628,293	July 4	648	------	88	125
Willumsen, Martin A., Murray, Utah. Combined car and air-brake coupling	624,143	May 2	363	75,76	87	769
Wilmann, Edward. (See Franson and Wilmann.)						
Wilmarth, Welcom M., Scranton, Pa. Lantern-holder and foot-warmer	628,377	July 4	802	186	88	154
Wilmerling, Henry G., New York, N. Y. Tenpin-ball	626,584	June 6	656	152	87	1742
Wilmot, Frank A., Bridgeport, Conn. Metal tube	621,730	Mar. 21	2204	497	86	1954
Wilmot, Frank A., Bridgeport, Conn. Metal tube	624,144	May 2	367	76	87	770
Wilmot, Frank A., Bridgeport, Conn. Sheet-metal water and steam pipe	625,946	May 30	3627	824	87	1484
Wilmot, Frank A., Bridgeport, Conn. Wrought-metal radiator	634,317	Oct. 3	659	160	89	133
Wilmot, Frank A., Bridgeport, Conn. Wrought-metal radiator	634,318	Oct. 3	661	160	89	133
Wilmot, Frank A., assignor to Wilmot & Hobbs Manufacturing Company, Bridgeport, Conn. Reinforced tube-joint for metallic tubing	620,395	Feb. 28	2908	667	86	1430
Wilmot, Frank A., assignor to Wilmot & Hobbs Manufacturing Company, Bridgeport, Conn. Sheet-metal tube	621,729	Mar. 21	2203	497	86	1954
Wilmot & Hobbs Manufacturing Company. (See Wilmot, Frank A., assignor.)						
Wilmot, James A., assignor of one-half to O. W. Alward, Old Orchard, Me. Coffee-pot	630,761	Aug. 8	1937	437	88	1113
Wilms, Gustav, Vilvoorden, Belgium. Machine for making paragon frames for umbrellas	636,373	Nov. 7	249	54,55	89	971
Wilms, Remy, Barmen, assignor to H. Schroers, Krefeld, Germany. Loom	631,516	Aug. 22	3327	756	88	1430
Wilson, Alexander B., Holywood, Ireland. Apparatus for regulating admission of motive fluids to engines	626,800	June 13	1068	240, 241	87	1840
Wilson, Alva, Wichita, Kans. Magazine-gun	618,369	Jan. 24	2871	637	86	608
Wilson, Archibald R., and W. Holt, Chicago, Ill. Acetylene bicycle-lamp	622,306	Apr. 4	192	42,43	87	36
Wilson, Charles E. (See Shaw and Wilson.)						
Wilson, Charles H., Chester, Mont. Wire-stretcher	633,632	Sept. 26	2719	633	88	2279
Wilson, Curtis S., Forest, Ohio. Incubator	617,547	Jan. 10	1306	295	86	274
Wilson, David H., Chicago, Ill. Electric transformer	617,381	Jan. 10	1003	230	86	215
Wilson, David H., assignor to Superior Electric Company, Chicago, Ill. Telephone system	617,382	Jan. 10	1006	230, 231	86	215
Wilson, David J., *et al.* (See Chapleau, Wildric, assignor.)						
Wilson, David J., *et al.* (See Pauli, Emil A., assignor.)						
Wilson, Edgar S. (See Marchlewski, Wilson, and Stewart.)						
Wilson, Edgar S., Stroud, and E. Stewart, London, England. Milling soap	623,859	Apr. 25	3076	------	87	647
Wilson, Edgar S., Stroud, and E. Stewart, London, England. Dye from cotton-seed oil	640,061	Dec. 26	3454	------	89	2602
Wilson, Edwin C. (See Taylor and Wilson.)						
Wilson, Ernest, and J. M. Cater, London, England. System of electrical distribution	638,157	Nov. 28	4066	858	89	1827
Wilson, Ezra L., *et al.* (See Earl, William M., assignor.)						
Wilson, Francis A., New York, N. Y., assignor to American Tobacco Company, of New Jersey. Box	625,822	May 30	3405	773	87	1442
Wilson, George, Chicago, Ill. Instantaneous water-heater	639,478	Dec. 19	2392	550, 551	89	2370
Wilson, George, Rochester, assignor to United States Voting Machine Company, Jamestown, N. Y. Voting-machine	639,328	Dec. 19	2098	482	89	2312
Wilson, George B. (See Mahan, Patrick F., assignor.)						
Wilson, George D., Pomeroy, Wash. Horse-power	633,978	Sept. 26	3316	772	88	2399
Wilson, George E., New York, N. Y. Printer's fudge	633,933	Sept. 26	3219	750, 751	88	2381
Wilson, George F. (See Cordeau, Gaston E., assignor.)						
Wilson, George T., Somerville, and E. Webb, Reading, assignors to said Webb and J. and M. L D'Esté, Salem, Mass. Fluid-actuated regulator	623,934	Apr. 25	3211	740	87	672
Wilson, George T., Somerville, and E. Webb, Reading, assignors to said Webb and J. and M. L. D'Esté, Salem, Mass. Regulator-valve	623,935	Apr. 25	3212	740	87	673
Wilson, Harriett D. T., New York, N. Y. Fire-escape	636,605	Nov. 7	663	146	89	1056
Wilson, Harry L., Erie, Pa. Dry pipe for boilers	618,311	Jan. 24	2773	615	86	590
Wilson, Harry L., Erie, Pa. Boiler-brace	619,109	Feb. 7	597	128	86	927
Wilson, Harry L., Erie, Pa. Boiler-bracket	637,542	Nov. 21	2532	548	89	1465
Wilson, Henry D., Bainbridge, Ga. Cotton-planter and fertilizer-distributer	633,934	Sept. 26	3221	751	88	2381
Wilson, Henry D., and T. J. Smith, Bainbridge, Ga. Cotton-chopper	633,935	Sept. 26	3223	751	88	2381
Wilson, Henry J. (See Postle, John D., assignor.)						
Wilson, Henry M. (See Davis and Wilson.)						
Wilson, Henry M., assignor of one-half to C. A. Davis, Somerset, Mass. Shutter-fastener	617,548	Jan. 10	1309	295	86	275
Wilson, Ira J., *et al.* (See Tygard, James W., assignor.)						
Wilson, James. (See Hogan, Thomas, assignor.)						
Wilson, James, *et al.* (See Coomber, James, assignor.)						
Wilson, James, Glen Cross, Canada. Hay-loader	634,599	Oct. 10	1167	277, 278	89	249
Wilson, James B. (See St. Clair, Theodore A., assignor.)						
Wilson, James H. (See Hutchison, Reese, assignor.)						
Wilson, James N., assignor of one-half to O. H. Leonard, Pipestone, Minn. Straw-stacker	630,279	Aug. 1	1002	222	88	921
Wilson, James N., assignor of one-half to O. H. Leonard, Pipestone, Minn. Combination coupling and antirattler	639,200	Dec. 12	1857	428	89	2247
Wilson, James T., New York, N. Y. Construction of docks, &c	635,906	Oct. 31	3623	837, 838	89	776
Wilson, Jefferson, Beaver Falls, Pa. Snap-hook	620,396	Feb. 28	2909	667	86	1430
Wilson, Jerome B., Lansing, Mich. Tooth for agricultural implements	623,390	Apr. 18	2206	506	87	460
Wilson, John, *et al.* (See McQuiston, David P., assignor.)						
Wilson, John, New York, N. Y. Purifying water	619,917	Feb. 21	2069	------	86	1256
Wilson, John, New York, N. Y. Purifying water	619,918	Feb. 21	2070	------	86	1256
Wilson, John, New York, N. Y. Purifying water	629,409	July 25	2714	------	88	585
Wilson, John, New York, N. Y. Purifying water	629,410	July 25	2715	------	88	585
Wilson, John, New York, N. Y. Purifying water	629,411	July 25	2715	------	88	585
Wilson, John, New York, N. Y. Settling device	630,958	Aug. 15	2298	523	88	1208

Alphabetical list of patentees—Continued.

Name, residence, and invention.	No.	Date.	Monthly volume.		Official Gazette.	
			Spec.	Dr'g.	Vol.	Page.
Wilson, John, New York, N. Y. Filtering device	630,959	Aug. 15	2300	523	88	1208
Wilson, John, Glasgow, Scotland. Filter-press	629,642	July 25	3146	733	88	668
Wilson, John B., Jr., Smith's Falls, Canada. Sander for rolling-stock	633,406	Sept. 19	2293	539	88	2184
Wilson, John C., Boston, Mass. Time-stamp	637,315	Nov. 21	2110	455, 456	89	1382
Wilson, John C., deceased; Z. T. George, administrator, assignor to S. G. Wilson, Los Angeles, Cal. Fruit-wrapping machine	639,375	Dec. 19	2202	509, 510	89	2333
Wilson, John D. (See St. John, Garland B., assignor.)						
Wilson, John D., Heron Lake, Minn. Metallic cross-tie	634,656	Oct. 10	1265	299	89	270
Wilson, John F., Milford, Mass. Work-holder for planing, milling, or drilling	634,225	Oct. 3	458	117	89	94
Wilson, John F., Jetmore, Kans. Device for inflating pneumatic tires	636,308	Nov. 7	140	30, 31	89	949
Wilson, John H. (See Forster and Murdock, assignors.)						
Wilson, John H., Boston, Mass., assignor to New England Toe Calk Company, Bath, Me. Machine for making toe-calks	631,482	Aug. 22	3254	739, 740	88	1415
Wilson, John H., Boston, Mass., assignor to G. C. Butts, Norwich, Conn. Machine for making toe-calks	637,492	Nov. 21	2439	529, 530	89	1447
Wilson, John M., New York, N. Y. Preventing smoke and improving combustion in furnaces	621,884	Mar. 28	2508	560	86	2028
Wilson, John M., Woodlawn Park, Colo. Syrup-pitcher	630,018	Aug. 1	547	121	88	832
Wilson, John T., Pittsburg, Pa. Car-coupling	632,302	Sept. 5	180	41	88	1743
Wilson, John W., Pocahontas, Va. Sash-fastener	630,960	Aug. 15	2301	523	88	1269
Wilson, Joseph, Duarte, Cal. Fruit-picker's bag	619,061	Feb. 7	503	106	86	908
Wilson, Leonidas W., Climax, Ohio. Hay-rake	623,299	Apr. 18	2044	469	87	428
Wilson, Noah R., and J. D. Perkins, assignors of one-third to H. Briggs, Greenville, S. C. Hydrant-plug	639,641	Dec. 19	2679	614	89	2429
Wilson, Peter J., Sheffield, England. Lock-nut	622,307	Apr. 4	194	43	87	36
Wilson, Richard F. (See Hollenbeck and Wilson.)						
Wilson, Robert D. (See Wood, John C., assignor.)						
Wilson, Robert E., Irwin, Pa. Railway-tie	630,156	Aug. 1	804	173	88	881
Wilson, Sam. (See Stearns, Wilson, and Whinnerah.)						
Wilson, Simpson G. (See Wilson, John C., assignor.)						
Wilson, Springer, Connellsville, Pa. Door-check	630,762	Aug. 8	1939	437	88	1113
Wilson, T. E. (See Locke, James J., assignor.)						
Wilson, Theodore M., assignor to S. D. Savill and M. W. Rafferty, Canton, Ill. Device for bundling cigars	633,633	Sept. 26	2720	633	88	2279
Wilson, Theophilus G., Chapel Hill, N. C. Steam-cooker	623,858	Apr. 25	3075	708	87	647
Wilson, Thomas, assignor to Pennsylvania Globe Gas Light Company, Philadelphia, Pa. Hydrocarbon-lighting burner	619,380	Feb. 14	1083	244	86	1042
Wilson, Thomas D., *et al.* (See Davis, George P., assignor.)						
Wilson, Thomas E., Farmland, Ind. Combined table and closet	625,077	May 16	2052	461	87	1137
Wilson, Thomas V., *et al.* (See Canfield, Frank, assignor.)						
Wilson, Wayne, *et al.* (See Goode, Frank R., assignor.)						
Wilson, William, Oakland, Cal. Bottle	623,644	Apr. 25	2660	609	87	566
Wilson, William, London, Canada. Egg or fruit case	624,598	May 9	1200	270, 271	87	955
Wilson, William H., *et al.* (See Earl, William M., assignor.)						
Wilson, William H., Cleveland, Ohio. Die-stock	636,309	Nov. 7	141	31	89	950
Wilson, William L., Hinton, W. Va. Rotary engine	621,193	Mar. 14	1223	268, 269	86	1751
Wilson, William W., Marion, Ky. Saw-set	633,936	Sept. 26	3224	751	88	2381
Wilson, Willie D., Champaign, Ill. Gate	630,433	Aug. 8	1367	305, 306	88	1003
Wilt, Frank D., Allentown, Pa. Horseshoe-calk	626,743	June 13	955	217	87	1818
Wilt, Kasper, Chicago, Ill. Refrigerator	629,143	July 18	2237	518, 519	88	473
Wilton. George R. (See Fairchild and Wilton.)						
Wilton, George R., Los Angeles, Cal. Tie-plate-setting machine	636,702	Nov. 7	853	190	89	1096
Wilton, William, Plainsville, assignor of one-half to F. E. Mitchell, Wilkes-Barré, Pa. Bicycle-bell	632,611	Sept. 5	725	167	88	1850
Wimbish, Joseph S., *et al.* (See Turner, Joseph P., assignor.)						
Winaud, Paul A. N., assignor to Otto Gas Engine Works, Philadelphia, Pa. Gas-generator	618,549	Jan. 31	3230	717	86	690
Winand, Paul A. N., assignor to Otto Gas Engine Works, Philadelphia, Pa. Raising and supplying liquids for combustion, &c	618,550	Jan. 31	3232	717	86	691
Winand, Paul A. N., assignor to Otto Gas Engine Works, Philadelphia, Pa. Gas-generator	622,744	Apr. 11	1008	235	87	211
Winans, Daniel M., Binghamton, N. Y. Button	626,744	June 13	957	217	87	1818
Winans, Edwin, New York, N. Y. Power-transmitting machinery	618,156	Jan. 24	2496	554, 555	86	538
Winans, Edwin, New York, N. Y. Power-transmitting machinery	639,879	Dec. 26	3117	716	89	2532
Winans, George G., Scranton, Pa. Shrinking core for molding glass or metal pipes	619,815	Feb. 21	1885	430	86	1221
Winch, Allen, Chicago, Ill. Gas-lamp	629,839	Aug. 1	157	37	88	751
Winchell, Charles B., New York, N. Y. Saw-clamp and filing-guide	622,095	Mar. 28	2886	651	86	2101
Winchell, James F., Springfield, Ohio. Rubber-tire equipment for vehicle-wheels	625,528	May 23	2852	649	87	1316
Winchell, James F., assignor to Foos Manufacturing Company, Springfield, Ohio. Machine for removing pith or cellulose from stalks	623,753	Apr. 25	2829	648, 649	87	599
Winchell, James F., assignor to Foos Manufacturing Company, Springfield, Ohio. Machine for removing pith, &c., from stalks	623,754	Apr. 25	2832	649	87	600
Winchester, Lucius W. (See Trevette, Wentworth G., assignor.)						
Winchester Repeating Arms Company. (See Bennett, Thomas G., assignor.)						
Winchester Repeating Arms Company. (See Browning, John M., assignor.)						
Winchester Repeating Arms Company. (See Burgess, Andrew, assignor.)						
Winchester Repeating Arms Company. (See Hanson, August, assignor.)						
Winchester Repeating Arms Company. (See Johnson, Thomas C., assignor.)						
Winchester Repeating Arms Company. (See Lee, James P., assignor.)						
Winchester Repeating Arms Company. (See Mason, William, assignor.)						
Winchester Repeating Arms Company. (See McGrail, John F., assignor.)						
Winchester Repeating Arms Company. (See Weisheit, Edward A., assignor.)						
Winder, Samuel E. (See Fournier and Winder.)						
Windett, Victor, Chicago, Ill. Dock construction	635,068	Oct. 17	1998	472, 473	89	431
Windham, Francis. (See Squier and Windham.)						
Windham, Francis, London, England. Water-tube steam-generator	629,882	Aug. 1	245	55	88	768
Windisch, Oskar, assignor to F. Trendel, Berlin, Germany. Automatic gas-lighter	638,786	Dec. 12	1128	251	89	2106
Windle, Frank. (See Edler and Windle.)						
Windle, John E., Worcester, Mass. Rust-guard for pipe-couplings	620,265	Feb. 28	2687	616	86	1388

Alphabetical list of patentees—Continued.

Name, residence, and invention.	No.	Date.	Monthly volume.		Official Gazette.	
			Spec.	Dr'g.	Vol.	Page.
Windrath, Hermann E., Aix-la-Chapelle, Germany. Hygienic head-rest	624,717	May 9	1405	315	87	996
Windsor, Benjamin F., Kenosha, Wis. Machine for bending ends of wire for bed-bottom springs	627,286	June 20	1963	432, 433, 434	87	2034
Windsor, John T., Akron, Ohio. Kiln	633,407	Sept. 19	2295	539	88	2184
Wine, Samuel A., Quicksburg, Va. Gate	632,161	Aug. 29	4507	1015	88	1671
Winegarden, James W., Grand Rapids, Mich. Sack holder or supporter	638,676	Dec. 5	932	208	89	2049
Wineland, William H., Easton, Pa. Rotary engine	623,936	Apr. 25	3214	740	87	673
Winfield, Edward F., San Francisco, Cal. Automatic circuit-breaker	640,062	Dec. 26	3455	793	89	2602
Winfield, William C., Warren, Ohio. Globe-raising mechanism for tubular lanterns	634,076	Oct. 3	157	41	89	35
Winfield, William C., Warren, Ohio. Lift mechanism for lantern-globes	634,077	Oct. 3	159	41	89	36
Winfield, William C., Warren, Ohio. Lift mechanism for lantern-globes	634,078	Oct. 3	160	41	89	36
Winfield, William C., Warren, Ohio. Lift mechanism for tubular lanterns	634,079	Oct. 3	161	42	89	36
Winfield, William N., Detroit, Mich. Perpetual ledger	619,525	Feb. 14	1334	306	86	1090
Winfield, William N., Detroit, Mich. Index-leaf	624,718	May 9	1406	315	87	996
Wing, Chauncey. (See Horton and Wing.)						
Wing, Dwight R. (See Peloubet, Esten, assignor.)						
Wing, George D., Pittsburg, Pa. Nut-lock	628,732	July 11	1484	343	88	310
Wing, Herbert H., Buffalo, N. Y. Mechanical drier	622,580	Apr. 4	713	166	87	136
Wing, Jefferson T. (See Watson, Nelson M., assignor.)						
Wing, S. B., *et al.* (See Baker, Willard D., assignor.)						
Wingate, Charles E., Lawrence, Mass. Vehicle-wheel	629,117	July 18	2188	507	88	464
Wingate, D. R. (See Dockery, Allen B., assignor.)						
Wingate, Harvey C., Wilmington, Del. Bicycle-tire-repairing tool	634,193	Oct. 3	383	98	89	79
Winger, Oswald E., Chicago, Ill. Drive-chain	621,194	Mar. 14	1226	269	86	1752
Winger, Oswald E., Joliet, assignor, by mesne assignments, to Enclosed Prism Company, Chicago, Ill. Glazing-frame	627,168	June 20	1762	386	87	1994
Winkel, Heinrich, Moscow, Russia. Pump	622,308	Apr. 4	195	43, 44	87	36
Winkler, Carl O., and G. Wenzel, Manchester, N. H. Shackle-spring	620,687	Mar. 7	264	54	86	1553
Winkler, William. (See Burchard, Richard D., assignor.)						
Winkley, Erastus E., Lynn, Mass. Welt-skiving machine	620,205	Feb. 28	2589	589	86	1368
Winkley, Erastus E., Lynn, Mass. Shoe-sewing machine	624,599	May 9	1202	271	87	955
Winkley, Erastus E., Lynn, Mass. Sole-laying machine	640,063	Dec. 26	3458	794	89	2602
Winkley, Erastus E., Lynn, Mass. Gage for shoe-machines	640,064	Dec. 26	3459	794, 795	89	2603
Winkley, Erastus E., assignor of one-half to B. Phillips, Lynn, Mass. Sole-pressing machine	627,034	June 13	1522	332	87	1927
Winkley, Erastus E., Lynn, Mass., assignor to Goodyear Shoe Machinery Company, of Maine. Sole-laying machine	627,035	June 13	1526	332, 333	87	1928
Winkley, Erastus E., and F. L. Alley, Lynn, Mass. Hand channeling-tool	622,309	Apr. 4	196	44	87	37
Winkley, Erastus E., and F. L. Alley, Lynn, Mass. Channeling device	622,310	Apr. 4	197	44	87	37
Winlow, A. E. (See Murphy, William P., assignor.)						
Winn, George L. (See Bates, Alonzo L., assignor.)						
Winner, Frederick W., and T. F. Martin, Carmi, Ill. Stove attachment	619,919	Feb. 21	2071	469	86	1256
Winnett, Elkand L., Vicksburg, Miss. Square	639,125	Dec. 12	1716	395, 396	89	2221
Winquist, Victor, Rockford, Ill. Mop	639,479	Dec. 19	2394	551	89	2370
Winsheimer, Lawrence. (See Piper, Thomas E., assignor.)						
Winslow Brothers' Company. (See Gallagher, Richard D., assignor.)						
Winslow Brothers' Company. (See Kail, Jackson L., assignor.)						
Winslow Brothers' Company. (See Winslow and Kail, assignors.)						
Winslow, Francis A. (See Winslow, William H. and F. A.)						
Winslow, Francis A. (See Winslow and Kail.)						
Winslow, George E., Waltham, Mass. Valve mechanism	634,253	Oct. 3	531	134, 135	89	107
Winslow, Lenna R., Kansas City, Mo. Voting-machine	621,511	Mar. 21	1800	400, 401	86	1874
Winslow, Marlon H., Terre Haute, Ind. Platform-scale	634,420	Oct. 3	846	204	89	169
Winslow, Sidney W. (See Rogers and Winslow.)						
Winslow, Sidney W., trustee. (See Rogers, Andrew W., assignor.)						
Winslow, Sidney W., trustee. (See Rogers and Winslow, assignors.)						
Winslow, William H., Chicago, Ill. Tread for stairs	621,398	Mar. 21	1589	352	86	1835
Winslow, William H. and F. A., Chicago, Ill. Shelving construction	618,530	Jan. 31	3195	706	86	684
Winslow, William H. and F. A., and J. L. Kail, assignors to Winslow Brothers' Company, Chicago, Ill. Shelf-bracket	618,551	Jan. 31	3234	718	86	691
Winsor, John, Corry, Pa. Type-writer	625,375	May 23	2591	590	87	1265
Winsor, Robert P., Cranston, R. I. Driving mechanism for chains of cloth-tentering machines	638,306	Dec. 5	227	47	89	1910
Winspear, James H., and F. R. Smith, Omaha, Nebr. Automatic mechanism for opening or closing electric circuits	621,550	Mar. 21	1881	416, 417	86	1890
Winsted, W. J. (See Swindell, Indimmon D., assignor.)						
Winston, Arthur S., Covington, Tenn. Permutation-lock	637,688	Nov. 21	3177	658, 659	89	1632
Winston, Ellen. Glendale, Ohio. Fire-escape	639,480	Dec. 19	2395	551	89	2371
Winter, Albert. (See Skoglund, Jean V., assignor.)						
Winter, George B. (See Stohwasser and Winter.)						
Winter, George J., Buffalo, N. Y. Attachment for doors	634,491	Oct. 10	980	234	89	213
Winter, Katharine F., *et al.* (See Kade, Charles F., assignor.)						
Winterhalter, William O., *et al.* (See Legg, Benjamin A., assignor.)						
Winters Company. (See Winters, Robert P., assignor.)						
Winters, Frederick V., assignor of one-half to J. A. York, New York, N. Y. Turning plug or valve	618,631	Jan. 31	3371	751	86	717
Winters, Frederick V., assignor of one-half to L. and H. Grund, New York, N. Y. Automatic heat-regulating device	621,008	Mar. 14	893	193	86	1687
Winters, Robert P., assignor to Winters Company, Springfield, Ohio. Reproducing tapestry-paintings	621,731	Mar. 21	2206	497	86	1955
Winton, Alexander, Cleveland, Ohio. Explosive-engine	617,978	Jan. 17	2125	476	86	454
Winton, Alexander, Cleveland, Ohio. Explosive-engine	626,120	May 30	4031	920, 921	87	1556
Winton, Alexander, Cleveland, Ohio. Speed-regulator for explosive-engines	626,121	May 30	4034	921	87	1557
Winton, Alexander, Cleveland, Ohio. Speed-regulator for explosive-engines	626,122	May 30	4036	921	87	1557
Winton, Alexander, Cleveland, Ohio. Fluid feeder or regulator for explosive-engines	627,372	June 20	2154	474	87	2074
Winton, Alexander, Cleveland, Ohio. Piston-lubricator	635,217	Oct. 17	2295	536	89	486
Winton, Alexander, Cleveland, Ohio. Oil-valve for gasolene-engines	635,218	Oct. 17	2296	536	89	487
Winton, Alexander, Cleveland, Ohio. Explosive-engine	636,606	Nov. 7	664	146	89	1056
Wintrode, Charles E., Huntington, Ind. Frame for forming wire fence-stays	638,613	Dec. 5	802	173	89	2020

Alphabetical list of patentees—Continued.

Name, residence, and invention.	No.	Date.	Monthly volume.		Official Gazette.	
			Spec.	Dr'g.	Vol.	Page.
Wiont, Jesse R., Stockwell, Ind. Bolt	625,230	May 16	2323	529	87	1189
Wippich, Henry A., *et al.* (See Fisher, Frederick A., assignor.)						
Wire Goods Company. (See Jacobs, Arthur I., assignor.)						
Wireless Telegraph and Signal Company. (See Marconi, Guglielmo, assignor.)						
Wirt, Charles, Philadelphia, Pa. Rheostat	633,172	Sept. 19	1837	432	88	2095
Wirt, Herbert C., Schenectady, N. Y., assignor to General Electric Company, of New York. Lightning-arrester for electric circuits	634,932	Oct. 17	1746	414	89	379
Wirt, Paul E. (See Edgar, Silas D., assignor.)						
Wirt, Reuben D., *et al.* (See Durnell, Cecil M., assignor.)						
Wirt, Reuben D., Independence, Mo. Portable fire-extinguisher	628,058	July 4	179	40	88	36
Wirt, Rush. (See Loughborough, William K., assignor.)						
Wirtz, Albert C. (See Van Alstine, George W., assignor.)						
Wirtz, Charles. (See Kramer, Christian, assignor.)						
Wirtz, Louise, New York, N. Y. Clothes-line	633,678	Sept. 26	2799	651	88	2296
Wirtz, Wilhelm, Aix-la-Chapelle, Germany. Brake	630,434	Aug. 8	1368	306	88	1003
Wisconsin Chair Company. (See Coffman, James H., assignor.)						
Wise, Charles T., Sr., New Bridge, Oreg. Heater	627,373	June 20	2156	475	87	2074
Wise, George F. (See Mignot, Joseph, assignor.)						
Wise, Henry G., Jr., New York, N. Y. Unicycle	619,816	Feb. 21	1886	430	86	1221
Wise, Henry T., Philadelphia, Pa. Binder	637,689	Nov. 21	3180	659	89	1633
Wise, Isaac H., Huntsville, Ala. Car-replacer	634,100	Oct. 3	208	52	89	46
Wise, Leslie, McKeesport, Pa. Bean-shooter	629,182	July 18	2301	534	88	484
Wise, Peter F., Los Angeles, Cal. Wood-splitting machine	629,144	July 18	2238	519	88	473
Wise, Pulaski S., St. Charles, Iowa. Printing-press	635,831	Oct. 31	3486	801	89	747
Wise, Reuben R., Sebewaing, Mich. Bicycle-brake	628,059	July 4	180	40	88	36
Wiseman, Darwin E., assignor to Glascock Bros. Manufacturing Company, Muncie, Ind. Combined flour-bin and spice-cabinet	638,433	Dec. 5	474	97	89	1957
Wiseman, Thomas T. (See Blasius, John, assignor.)						
Wishart, James, Bootle, England. Mechanical toy	621,885	Mar. 28	2510	561	86	2029
Wismer, Lewis B., Reading, Pa. Saucepan	638,307	Dec. 5	229	47	89	1910
Wisner, Charles H., Flint, Mich. Fishing-reel	627,767	June 27	2893	632	87	2236
Wisner, Charles H., Flint, Mich. Fishing-reel	639,008	Dec. 12	1526	349	89	2183
Wisniewski, Michael. (See Siewert and Wisniewski.)						
Wisniewski, Vincent, Berlin, Germany. Automatic device for detaching horses from vehicles	619,457	Feb. 14	1222	278	86	1067
Wiss, Frederick C. J., *et al.* (See Hilborn, Louis B., assignor.)						
Wiss, Louis T., *et al.* (See Hilborn, Louis B., assignor.)						
Wissemann, William A., New York, N. Y. Game	629,226	July 18	2367	549	88	496
Wissinger, Isaac N., Blacklick, assignor of one-half to D. W. Coulter, Conemaugh, Pa. Driving-wheel for locomotives	628,733	July 11	1485	344	88	310
Witham, George S., assignor of one-half to E. A. Edmonds, Oconto Falls, Wis. Apparatus for imparting water-finish to paper	628,570	July 11	1172	275	88	246
Witham, William H., London, England. Workman's time-recorder	634,971	Oct. 17	1828	433	89	396
Witham, William H., London, England. Camera-shutter	634,972	Oct. 17	1830	434	89	397
Witherell, George E., assignor to Hartford Machine Screw Company, Hartford, Conn. Metal-working machine	625,486	May 23	2780	{633 634	87	1301
Witherspoon, Thomas C., St. Louis, Mo. Water-heater or analogous device	631,838	Aug. 29	3916	876	88	1555
Withycombe, Frederick H., assignor of eleven-twentieths to C. H. McLeod, Montreal, Canada. Insulator	633,173	Sept. 19	1838	432	88	2095
Withycombe, Frederick H., assignor of eleven-twentieths to C. H. McLeod, Montreal, Canada. Insulator	633,174	Sept. 19	1839	432	88	2096
Withycombe, Frederick H., assignor of eleven-twentieths to C. H. McLeod, Montreal, Canada. Insulator	633,175	Sept. 19	1840	433	88	2096
Withycombe, Frederick H., assignor of eleven-twentieths to C. H. McLeod, Montreal, Canada. Insulator	633,176	Sept. 19	1841	433	88	2096
Witkowski, Louis C., Washington, D. C., assignor to Crown Self-Opening Can Company, of West Virginia. Box or can	625,625	May 23	3026	689	87	1351
Witkowski, Louis C., Washington, D. C., assignor to Crown Self-Opening Can Company, of West Virginia. Box or can	625,626	May 23	3029	690	87	1351
Witkowski, Louis C., Washington, D. C., assignor to Crown Self-Opening Can Company, of West Virginia. Can-opener	635,219	Oct. 17	2298	536	89	487
Witmer, Daniel H., Christiana, Pa. Boot-drier	629,944	Aug. 1	404	88	88	801
Witt, Alfred C., Kingfisher, Okla. Ter. Animal-poke	622,311	Apr. 4	199	44	87	37
Witt, Austin E., Raymond Ill. Freight-car-door-operating mechanism	636,880	Nov. 14	1243	268	89	1199
Witt, Charles G. (See Bevington, John A., assignor.)						
Witt, Gustav. Erfurt, Germany. Newspaper or like holder	625,231	May 16	2323	529	87	1189
Witt, Julius F., Chicago, Ill. Umbrella-cover tip	620,206	Feb. 28	2591	589	86	1368
Wittbold, Henry, Chicago, Ill. Hot-water heating apparatus	622,745	Apr. 11	1010	{235 236	87	211
Wittbold, Henry G., Chicago, Ill. Machine for winding evergreens	634,050	Oct. 3	116	29	89	27
Witte, Charles, and H. M. Luick, New York, N. Y. Cycle-support	626,849	June 13	1174	261	87	1859
Witte, Charles, and H. M. Luick, New York, N. Y. Bicycle-brake	634,421	Oct. 3	848	205	89	170
Wittemann, Jacob F., New York, N. Y. Apparatus for collecting carbonic-acid gas	639,642	Dec. 19	2680	{614 615	89	2429
Witter, William S., Ridott, Ill. Dumping end-gate for wagons	625,006	May 16	1930	{432 433	87	1115
Witthold, Johann F., Döhlen, Germany. Manure-distributing device for plows	628,976	July 18	1923	448	88	411
Wittich, Frederick A., assignor to R. H. Pfaff and F. K. Lewis, Ashtabula, Ohio. Vine-clamp	619,062	Feb. 7	505	106	86	908
Wittich, Henry, St. Louis, Mo. Wagon end-gate	628,425	July 4	886	208	88	170
Wittig, Jacob, Marinette, Wis. Coffin	636,374	Nov. 7	253	56	89	972
Wittig, Jacob, Marinette, Wis. Burial-box	636,736	Nov. 7	960	206	89	1126
Wittmann, John, Seven Mile, Ohio. Fly-net	624,885	May 9	1720	389	87	1057
Witty, John B., and O. D. Reeves, Indianapolis, Ind. Gravity window-lock	638,037	Nov. 28	3832	806	89	1783
Witz, Richard H., assignor of one-third to W. S. Burke, Staunton, Va. Acetylene-gas generator	640,065	Dec. 26	3465	795	89	2603
Wize, James E., Rossland, Canada. Leaf-turner	627,608	June 27	2618	516	87	2180
Wm. H. Greir Company. (See Prince, George C., assignor.)						
Wm. H. Horstmann Company. (See Pietschmann, Emil, assignor.)						
Woddrop, C. William, *et al.* (See Campbell, George L., assignor.)						
Wodiska, Julius, New York, N. Y. Pedal	620,266	Feb. 28	2688	616	86	1388
Woehrmann, Camillo von. (See McAulay, Norman, assignor.)						
Woelfle, Louis, and A. Schoeller, New York, N. Y. Fireproof floor	620,818	Mar. 7	519	111	86	1603
Woerner, Frank W., Indianapolis, Ind., assignor of one-half to J. A. Henderson, Danville, Va. Machine for tagging plug-tobacco	628,508	July 11	1036	{241 242 243	88	220

Alphabetical list of patentees—Continued.

Name, residence, and invention.	No.	Date.	Monthly volume.		Official Gazette.	
			Spec.	Drg.	Vol.	Page.
Woerner, Louis C., assignor to Pratt & Whitney Company, Hartford, Conn. Speed-changing mechanism for screw-machines	628,734	July 11	1486	344	88	310
Woerner, William K. H., and A. N. Heine, Evansville, Ind. Gate-valve	622,875	Apr. 11	1256	291	87	258
Wohlfahrt, Paul. (See Kuehn and Wohlfahrt.)						
Wohlgemuth, Moses, Detroit, Mich. Telephone-holder	629,058	July 18	2067	482	88	440
Wohlwill, Emil, Hamburg, Germany. Obtaining chemically-pure gold	625,863	May 30	3483	790	87	1457
Wohlwill, Emil, Hamburg, Germany. Production of chemically-pure gold by electrolysis	625,864	May 30	3489	------	87	1457
Woinke, Hermann, Gross-Lichterfelde Germany. Advertising apparatus	626,952	June 13	1384	304	87	1900
Wolcott, Byron R. (See Leonard, Graffam, and Wolcott.)						
Wolcott, Oliver P., Oak Cliff, Tex. Disk plow	618,261	Jan. 24	2688	595	86	573
Wolcott, Willie M., East Liverpool, Ohio. Manufacture of pottery	622,746	Apr. 11	1011	236	87	212
Wold, Ole E., Colchester, Ill. Door-fastener	628,735	July 11	1489	344	88	311
Wolever, Frank H., Lafayette, Ind., assignor of one-half to J. S. Driver, Riverside, Ill. Copying apparatus	638,899	Dec. 12	1321	300	89	2144
Wolf, Albert, Looking Glass Prairie, Ill. Bucket-strainer	638,787	Dec. 12	1129	251	89	2106
Wolf, Elmer E. (See Piatt and Wolf.)						
Wolf, Elmer E., Springfield, Ohio. Gas-engine	618,157	Jan. 24	2499	555, 556	86	538
Wolf, Elmer E., assignor to W. A. Scott, Springfield, Ohio. Postal denominating, registering, and adding machine	618,158	Jan. 24	2504	556, 557, 558	86	539
Wolf, George W., Keyser, W. Va. Furnace-door	619,817	Feb. 21	1887	431	86	1221
Wolf, John. (See Dietrich, Hufnagel, and Wolf.)						
Wolf, John, St. Louis, Mo. Wall-trunk	626,953	June 13	1385	305	87	1900
Wolf, John, St. Louis, Mo. Trunk	635,832	Oct. 31	3488	802	89	747
Wolf, John G. (See Carr and Wolf.)						
Wolf, Josef, Watsessing, N. J. Combined door spring and check	635,411	Oct. 24	2695	617	89	580
Wolf, Laura J., Columbus, Ohio. Diaper	634,281	Oct. 3	584	145	89	117
Wolf, Ota A., Rockford, Ohio. Corn harvester and shocker	629,118	July 18	2189	507, 508	88	464
Wolf, Rudolf, assignor of one-half to C. Kutscher, Bridgeport, Conn. Graphophone-mandrel	629,534	July 25	2957	689	88	632
Wolfe, Edwin D., *et al.* (See Vance, William H., assignor.)						
Wolfe, F. H. (See Ramseaur, William S., Jr., assignor.)						
Wolfe, Frank W., *et al.* (See Vance, William H., assignor.)						
Wolfe, Henry, Falls Village, Conn. Rossing-machine	632,979	Sept. 12	1448	336	88	2007
Wolfe, Ira B. (See Wolfe, Robert H. and I. B.)						
Wolfe, Robert H. and I. B., Tillar, Ark. Vehicle-step	634,385	Oct. 3	786	188	89	156
Wolfe, Thomas, assignor of one-half to W. O. Cox and F. P. Fuoss, Kansas City, Mo. Newspaper folding and wrapping machine	628,509	July 11	1039	243, 244, 245	88	220
Wolfe, William, Williamsport, Pa., assignor of one-half to F. D. Holmes, Rochester, N. Y. Envelop	628,152	July 4	367	87	88	74
Wolfe, William H., and W. F. Richmond, Boston, Mass. Skirt lifter and supporter	618,216	Jan. 24	2603	576	86	556
Wolfenden, Frank, Greenville, Miss. Hydraulic valve	617,667	Jan. 10	1525	346	86	317
Wolfersberger, Harry D., Philadelphia, Pa. Envelop	618,632	Jan. 31	3372	751	86	718
Wolff, George S., Philadelphia, Pa. Enameled leather	632,162	Aug. 29	4508	1015	88	1671
Wolff, George S., Philadelphia, Pa. Enameled leather	632,163	Aug. 29	4510	------	88	1672
Wolff, Herrmann, assignor of two-thirds to A. Menke and H. Oppenheimer, New York, N. Y. Artificial fuel	623,504	Apr. 18	2403	------	87	501
Wolff, Herrmann, assignor of two-thirds to A. Menke and H. Oppenheimer, New York, N. Y. Binding material for artificial fuel	626,199	May 30	4192	------	87	1588
Wolhaupter, Benjamin, Chicago, Ill. Railway-tie plate	636,607	Nov. 7	666	146	89	1057
Wolinski, Benzion, New Haven, Conn. Coin-freed medical battery and appendage	629,022	July 18	2006	467	88	428
Wolke, George, and H. D. Easterly, Jacksonville, Ill. Vapor-lamp	636,935	Nov. 14	1366	291	89	1222
Wolkosky, Joseph M., Irwin, Pa. Electric band	636,881	Nov. 14	1244	268	89	1200
Wollman, Maurice, Council Bluffs, Iowa. Soldering-pad	625,007	May 16	1931	433	87	1116
Wollman, Morton, *et al.* (See Whalen and Warner, assignors.)						
Wolpert, Heinrich, Charlottenburg, Germany. Carbureter	639,481	Dec. 19	2398	551	89	2371
Wolstenholme, Alfred, Philadelphia, Pa. Rubbing-apron for worsted-drawing machines	637,543	Nov. 21	2533	548	89	1465
Wolter, Ferdinand R., Kasson, Minn. Fountain-pen	637,439	Nov. 21	2343	506	89	1429
Woltereck, Herman C., New York, N. Y. Manufacturing white lead or other pigments by electrolysis	631,839	Aug. 29	3918	876	88	1555
Woltmann, Ernst, New York, N. Y., assignor of one-half to A. Anderson and J. M. Andersen, Boston, Mass. Electric-arc lamp	638,614	Dec. 5	804	173, 174	89	2020
Woltmann, Ernst, New York, N. Y., assignor of one-half to A. Anderson and J. M. Andersen, Boston, Mass. Electric-arc lamp	638,788	Dec. 12	1130	251, 252	89	2107
Wolverton, Washington I., Holton, Kans. Vehicle-coupling	635,627	Oct. 24	3090	709	89	658
Wolverton, Washington I., Holton, Kans. Vehicle-coupling	635,628	Oct. 24	3091	709	89	658
Wolz, Lorenz, Rollbach, Germany. Combination furniture	639,482	Dec. 19	2399	552	89	2372
Womack, George W. (See Dallin, Bruce, assignor.)						
Wonder Manufacturing Company. (See Tittle, Reuben D., assignor.)						
Wood, Alan D. (See Gillmore, William A., assignor.)						
Wood, Albert A., Atlanta, Ga. Gin-saw-gumming machine	620,726	Mar. 7	345	71, 72	86	1568
Wood, Albert A., Atlanta, Ga. Gin-saw-filing machine	620,727	Mar. 7	351	72, 73	86	1570
Wood, Alexander, assignor to Arthur & Company, Limited, Glasgow, Scotland. Sewing-machine	626,316	June 6	178	43, 44, 45	87	1647
Wood, Alexander C., Advance, N. C. Machine for sawing fellies	617,005	Jan. 3	270	61	86	54
Wood, Alonzo H., Defiance, Ohio. Roller-bearing axle-skein	630,961	Aug. 15	2303	524	88	1209
Wood, Andrew J., assignor of three-fourths to C. N. Risley, Campbell, and A. T. Lewis, Thurston, N. Y. Gate	639,800	Dec. 26	2991	688	89	2509
Wood, Arthur B., *et al.* (See Titus, James M., assignor.)						
Wood, Augustus M., St. Louis, Mo. Combined skirt-support and shirt-waist holder	617,792	Jan. 17	1788	401	86	387
Wood, Benjamin F, Jr., assignor of one-half to D. C. Leavel, Camden Point, Mo. Stove-pipe-joint lock	635,707	Oct. 24	3222	742	89	684
Wood, Byron, Danielson, Conn. Reed for looms	623,196	Apr. 18	1858	425	87	390
Wood, Charles B., Foxborough, Mass. Car-fender	627,713	June 27	2804	614	87	2217
Wood, Charles M. (See Robbins, George A., assignor.)						
Wood, Charles S., Berlin, Wis. Method of and means for exterminating weeds	619,458	Feb. 14	1223	278	86	1067
Wood, Charles W., New Orleans, La. Sounding-machine	630,962	Aug. 15	2304	524	88	1209
Wood, David T., *et al.* (See Hartwell, Jacob E., assignor.)						
Wood, Frank, *et al.* (See Durst, John B., assignor.)						
Wood, Frank S., Boston, Mass., assignor, by mesne assignments, to Aurora Standard Light Company, Portland, Me. Acetylene-gas generator	635,086	Oct. 17	2044	482	89	441
Wood, Franz J., Pipe Stone, Minn. Governor for band-cutters and feeders for threshing-machines	630,763	Aug. 8	1940	438	88	1113

Alphabetical list of patentees—Continued.

Name, residence, and invention.	No.	Date.	Monthly volume. Spec.	Monthly volume. Drg.	Official Gazette. Vol.	Official Gazette. Page.
Wood, Frederick W., Los Angeles, Cal. Dry concentrator	633,254	Sept. 19	1999	469, 470	88	2128
Wood, George D., Edinburgh, Scotland. Wheel-tire	623,860	Apr. 25	3076	708	87	647
Wood, Henry A., Kingston, Canada. Air-valve	619,526	Feb. 14	1335	307	86	1091
Wood, Henry A. W., assignor to Campbell Printing Press and Manufacturing Company, New York, N. Y. Printing-press	618,490	Jan. 31	3117	690	86	669
Wood, Henry A. W., assignor to Campbell Printing Press and Manufacturing Company, New York, N. Y. Printing-machine	638,308	Dec. 5	230	48	89	1910
Wood, Henry A. W., assignor to Campbell Printing Press and Manufacturing Company, New York, N. Y. Printing-machine	639,801	Dec. 26	2992	688, 689	89	2509
Wood, Henry A. W., assignor to Campbell Printing Press and Manufacturing Company, New York, N. Y. Printing-machine	639,802	Dec. 26	2996	689, 690	89	2510
Wood, Henry N., Denver, Colo. Automatic brake-block	627,947	June 27	3221	706	87	2303
Wood, Henry N., Denver, Colo. Automatic brake-block	627,948	June 27	3222	706	87	2303
Wood, Homer R., and G. R. Taitt, Prescott, Ariz. Ter. Hammock-support	631,602	Aug. 22	3491	788	88	1464
Wood, Hubert K., Hartford, Conn. Meat-cutter	631,451	Aug. 22	3195	726	88	1404
Wood, James D., Rapson, Mich. Leach for tanbark	631,840	Aug. 29	3921	876	88	1555
Wood, James J., Fort Wayne, Ind. Regulator for constant-current dynamos	617,793	Jan. 17	1789	401, 402	86	387
Wood, James J., Fort Wayne, Ind., assignor to General Electric Company, of New York. Electric-arc lamp	638,789	Dec. 12	1132	252	89	2107
Wood, John C., Vanceburg, Ky. Nut-lock	621,512	Mar. 21	1806	401	86	1875
Wood, John C., assignor of one-tenth to R. D. Wilson, Vanceburg, Ky. Fruit-picker	635,990	Oct. 31	3799	874	89	809
Wood, John D., Westport, Conn. Hand-bag	627,374	June 20	2157	475	87	2074
Wood, Joseph, Chicago, Ill. Convertible breast and back rest for bicycles	620,688	Mar. 7	265	54	86	1553
Wood, Joseph D., Milwaukee, Wis. Mortising auger or machine	625,008	May 16	1932	433	87	1116
Wood, Joseph T., West Bridgford, England. Bate	638,828	Dec. 12	1196	268	89	2119
Wood, Josiah L., Buffalo, N. Y. Hat-fastener	624,600	May 9	1207	271	87	956
Wood, Montraville M., Chicago, Ill., assignor of one-half to Central Union Brass Company, St. Louis, Mo. Splicer for trolley or other wires	622,747	Apr. 11	1013	236	87	212
Wood, Samuel S., Wellsville, Ohio. Piling-table for metal sheets	631,841	Aug. 29	3922	877	88	1556
Wood, Timothy W., Richmond, Va. Churn	623,059	Apr. 11	1566	361	87	319
Wood, W. F. (See Kellogg, Ernest A., assignor.)						
Wood, Walter J. (See Boatenreiter, Benjamin W., assignor.)						
Wood, Walter J. (See Hickson and Wood.)						
Wood, Walter W., Washington, D. C. Magazine-firearm	620,524	Feb. 28	3110	711, 712	86	1469
Wood, William, Banta, Cal. Propeller	627,562	June 27	2517	553, 554	87	2160
Wood, William A. (See Becket and Wood.)						
Wood, William A., Ansonia, Conn., assignor of one-half to Coe Brass Manufacturing Company, of Connecticut. Regulator for steam-pumps	637,983	Nov. 28	3714	781, 782	89	1760
Wood, William A., and J. M. Eddy, Eugene, Oreg. Gasolene-lamp	635,456	Oct. 24	2787	637	89	598
Wood, William B., assignor of one-half to J. R. Brewer, Baltimore, Md. Toy house and elevator	618,810	Jan. 31	3689	826	86	781
Wood, William G., San Francisco, Cal. Boxing-glove	618,970	Feb. 7	313	68	86	871
Wood, William H. (See Bancroft and Wood.)						
Wood, William J. (See Pearson, James W., assignor.) (Reissue.)						
Wood, William T., Nashville, Tenn. Windlass	620,007	Feb. 21	2218	504	86	1284
Wood, William W. (See Atwood, George F., assignor.)						
Woodall, Samuel, Binghamton, N. Y. Traction-increasing device	639,483	Dec. 19	2400	552	89	2372
Woodard, Frank E. (See Kleiner and Parkinson, assignors.)						
Woodbridge, Frank, Indianapolis, Ind. Cash-register	618,491	Jan. 31	3124	691	86	671
Woodbury, James A., Winchester, Mass. Flushing apparatus for water-closets	638,900	Dec. 12	1324	301	89	2145
Woodcock, George L. (See Harwood, Silas J., assignor.)						
Woodcock, William H. (See Cooper and Woodcock.)						
Woodham, Joseph, Longbeach, Wash. Concentrator	633,059	Sept. 12	1582	368	88	2034
Woodhead, Harry W., Fitchburg, Mass. Flag game	635,116	Oct. 17	2118	496	89	454
Woodill, Hiram B., and B. F. Hulse, Los Angeles, Cal. Boring-machine	639,203	Dec. 12	1863	429	89	2249
Wooding, Benjamin F., Denver, Colo. Necktie-fastener	634,600	Oct. 10	1170	278	89	250
Woodland, Frank O., Worcester, Mass. Crown-placer for bottle filling and stoppering machines	637,316	Nov. 21	2113	456	89	1383
Woodman, David D (See Stuart and Woodman.)						
Woodman, Edward F., assignor to National Fire Appliance Company, Boston, Mass. Electric alarm system and apparatus for testing same	637,914	Nov. 28	3591	752, 753	89	1737
Woodman, Jay J., Napoleon, Ohio. Sign-board	638,434	Dec. 5	476	97	89	1957
Woodman, William H., San Francisco, Cal. Rheostat	622,748	Apr. 11	1015	237	87	213
Woodmanse, Harrison, Freeport, Ill. Automatic hydraulic regulator for windmills	617,794	Jan. 17	1795	402	86	388
Woodring, Peter, Oelwein, Iowa. Bucksaw	623,588	Apr. 25	2572	589	87	551
Woodruff, Frank, Rochester, Pa. Grinding glassware	622,312	Apr. 4	201	45	87	38
Woodruff, M. N., *et al.* (See Pearce, William, assignor.)						
Woodruff, Sarah H., *et al.* (See Woodruff, Thomas S., assignor.)						
Woodruff, Thomas S., Girard, Pa., assignor to R. I. Odell, New York, N. Y., S. H. Woodruff and M. W. Johnston, Erie, Pa. Bicycle	628,426	July 4	889	208	88	170
Woods, Albert E., New Westminster, Canada. Dowel-door-boring machine	630,963	Aug. 15	2307	525, 526	88	1210
Woods, Clinton E., assignor to Fischer Equipment Company, Chicago, Ill. Motor-vehicle	619,527	Feb. 14	1337	307	86	1091
Woods, Clinton E., assignor to Fischer Equipment Company, Chicago, Ill. Apparatus for controlling operation of motors	620,628	Mar. 7	145	30	86	1530
Woods, Edward D., Granville, N. Y., assignor to Woods Specialty Company, of New York. Polishing-wheel	628,172	July 4	403	95	88	81
Woods, Edward D., Granville, N. Y., assignor to Woods Specialty Company, of New York. Corn-knife	628,594	July 11	1206	282	88	253
Woods, Edward D., Granville, N. Y., assignor to Woods Specialty Company, of New York. Bearing	637,842	Nov. 28	3451	721	89	1708
Woods, Fred M., assignor to D. J. Hayden and J. D. Russell, Winfield, Kans. Ball-bearing	638,158	Nov. 28	4068	858	89	1827
Woods, Granville T., New York, N. Y. Amusement apparatus	639,692	Dec. 19	2783	642	89	2449
Woods, Granville T., New York, N. Y., assignor to E. L. Kerr, Jersey City, N. J. System of electrical distribution	630,280	Aug. 1	1007	222	88	921
Woods, James H., Lumber, Ark. Valve-gear	617,383	Jan. 10	1008	231	86	216
Woods, John C., Ernest, Mo. Clevis	636,608	Nov. 7	669	147	89	1057
Woods, Solomon A., Brookline, H. R. Tillison, and C. W. H. Blood, assignors to S. A. Woods Machine Company, Boston, Mass. Planing-machine	623,938	Apr. 25	3215	741, 742	87	673
Woods, Solomon A., Brookline, H. R. Tillison and C. W. H. Blood, assignors to S. A. Woods Machine Company, Boston, Mass. Planing-machine	624,886	May 9	1721	389, 390	87	1058
Woods Specialty Company. (See Woods, Edward D., assignor.)						
Woodside, John W. (See Dawson, John H., assignor.)						
Woodsome, Frank P. (See Merrill and Woodsome.)						
Woodvine, George W., Rexburg, Idaho. Stovepipe-coupling	622,313	Apr. 4	204	46	87	39

Alphabetical list of patentees—Continued.

Name, residence, and invention.	No.	Date.	Monthly volume.		Official Gazette.	
			Spec.	Dr'g.	Vol.	Page.
Woodward, Charles R., Campbell, N. Y. Movement-transmitting apparatus	620,819	Mar. 7	520	111	86	1604
Woodward, Erastus, Somerville, Mass., assignor to Woodward Manufacturing Company, Saco, Me. Heel-attaching machine	627,741	June 27	2850	624	87	2226
Woodward, Frederick S. (See Woodward, William R. and F. S.)						
Woodward, Frederick S., New York, N. Y. Conduit-rod	635,833	Oct. 31	3490	802	89	748
Woodward, George W., East Orange, N. J., J. W. Dunn and R. Robertson, New York, N. Y. Vapor burner and stove	626,745	June 13	959	217, 218	87	1818
Woodward, Irving C., Iron Mountain, Mich. Nut and bolt lock	619,649	Feb. 14	1559	355	86	1132
Woodward, James C., Knoxville, Tenn. Bed-bracket	619,650	Feb. 14	1560	355	86	1132
Woodward, James C., Knoxville, Tenn. Canopy-support	620,008	Feb. 21	2220	504	86	1285
Woodward Manufacturing Company. (See Woodward, Erastus, assignor.)						
Woodward, Mary. (See Davies, Philip J., assignor.)						
Woodward, William C., Los Angeles, Cal. Triple-piston deep-well pump	627,315	June 20	2034	446, 447, 448	87	2050
Woodward, William C., Los Angeles, Cal. Gearing for pumping-jacks	634,194	Oct. 3	385	98	89	79
Woodward, William R., New York, N. Y., and F. S. Woodward, Graniteville, Mo., assignors of eleven-twentieths to H. F. Cook, Sag Harbor, N. Y. Electric railway	620,009	Feb. 21	2222	505	86	1285
Woodworth, Cyrus B. (See Campbell and Woodworth.)						
Woodworth, George L., Stanford University, Cal. Governing mechanism for internal-combustion engines	634,973	Oct. 17	1831	434	89	397
Woodworth, Henry C., assignor of one-half to B. G. Spiller, Cheboygan, Mich. Mop or brush holder	638,539	Dec. 5	666	139	89	1993
Woodworth, John B., assignor of one-half to M. Murphy, Manlius, N. Y. Faucet	639,484	Dec. 19	2402	552, 553	89	2372
Woody, Samuel E., Louisville, Ky. Stereopticon	625,627	May 23	3030	690	87	1351
Woolf, Albert E., New York, N. Y. Antiseptic and germicide attachment for telephones	634,933	Oct. 17	1748	415	89	380
Woolf, Asher, London, England. Apparatus for molding or pressing bunches for cigars	626,954	June 13	1386	305	87	1900
Woolf, Ellis J., assignor to Woolf Valve Gear Company, Minneapolis, Minn. Air and gas engine	627,219	June 20	1843	403, 404	87	2010
Woolf, Ellis J., assignor to Woolf Valve Gear Company, Minneapolis, Minn. Air and gas engine	627,220	June 20	1848	404, 405	87	2011
Woolf Valve Gear Company. (See Woolf, Ellis J., assignor.)						
Wooll, William W., Detroit, Mich. Side bearing for railway-cars	627,169	June 20	1763	386	87	1994
Woollatt, Alice, Nottingham, England. Measuring-tap	625,487	May 23	2787	634	87	1304
Woolley, George O., near College Green, county of Bristol, England. Manufacture of conical-shaped paper bags	621,009	Mar. 14	896	194, 195	86	1687
Woolley, Leonidas G., Kenton, assignor to National Magneto-Electric Telegraph Company, Springfield, Ohio. Magneto-electric telegraph	631,356	Aug. 22	3022	684	88	1370
Woolley, Orson A., Salt Lake City, Utah. Copy-holder	636,423	Nov. 7	332	75	89	988
Woolsey, George, McKeesport, assignor to W. Dewees Wood Company, Pittsburg, Pa. Apparatus for treating metal sheets	638,829	Dec. 12	1199	268, 269	89	2120
Woolsey, Nicholas I., New York, N. Y. Coin-controlled vending-machine	628,510	July 11	1047	245	88	222
Woonsocket Machine and Press Company. (See Miller, John F., assignor.)						
Woonsocket Napping Machinery Company. (See La Fountain, Maxim, Jr., assignor.)						
Wooster, George. (See Seay, Julius M., assignor.)						
Wootan, Silas M. (See Allsup and Wootan.)						
Woozley, William E., Hope Church, Pa. Carpet-fastener	637,193	Nov. 14	1871	402	89	1319
Worcester Electric Light Company. (See Brennan, James A., assignor.)						
Worcester Umbrella Company. (See Frost, Clarence C., assignor.)						
Worden, Charles A., deceased; M. L. Worden, Fort Logan, Colo., administratrix, assignor to Universal Sharpening Machine Company, Chicago, Ill. Sharpening-machine	631,842	Aug. 29	3923	877	88	1556
Worden, Frank A., Ypsilanti, Mich. Puzzle	617,549	Jan. 10	1311	295	86	275
Worden, Mary L., administratrix. (See Worden, Charles A.)						
Worden, Will J., Chicago, Ill. Placket-closer	620,207	Feb. 28	2592	589	86	1368
Worden, Will J., Chicago, Ill., assignor of one-half to T. J. Pringle, Milwaukee, Wis. Apparel appurtenance	627,949	June 27	3223	706	87	2303
Work, Bertram G., Akron, and C. Haskell, Cleveland, Ohio. Ball	622,834	Apr. 11	1170	272	87	240
Work, John O. (See Mahaffey and Work.)						
Workman, James A., New Madrid, Mo. Gravity-motor	639,803	Dec. 26	2998	690	89	2510
Workman, William J., Ashland, Kans. Tank for transporting live fish	622,581	Apr. 4	716	166	87	136
World Bottle Lock Stop Company. (See Dawson, James W., assignor.)						
World Flash Company. (See Yetman, Charles E. assignor.)						
Worley, Arthur D., Iron Hill, Md. Hen's nest	622,407	Apr. 4	372	85	87	69
Worley, Maurice P., Anderson, Ind. Gas-burner	639,485	Dec. 19	2403	553	89	2372
Worley, Nathan M., Victor, Colo. Bouquet-holder	634,517	Oct. 10	1024	245	89	222
Wormser, Lillian, Trenton, N. J. Hat-fastener	626,123	May 30	4038	921	87	1558
Wormwood, Kate B., *et al.*, executors. (See Wormwood, Samuel P.)						
Wormwood, Luther H., *et al.* (See Wormwood, Samuel P.)						
Wormwood, Samuel P., deceased, M. F. Dickinson, Jr., Cohasset, and K. B. and L. H. Wormwood, Newton, Mass., executors. Toe-calk machine	631,362	Aug. 22	3031	687, 688	88	1371
Worns, Edwin C., New York, N. Y. Call-bell	623,589	Apr. 25	2573	589	87	551
Worrell, James K., Estill, Mo. Insect-exterminator	618,450	Jan. 31	3050	675	86	656
Worring, Carl, and A. Kortenbach, Weyer, Germany. Umbrella	636,936	Nov. 14	1367	291	89	1223
Worsley, Frederic S., assignor to British Blahnik Arc Light Company, Limited, London, England. Electric-arc lamp	635,629	Oct. 24	3092	710	89	659
Worsley, Frederic S., assignor to British Blahnik Arc Light Company, Limited, London, England. Carbon-holder for electric-arc lamps	638,159	Nov. 28	4069	858	89	1827
Worsley, Otto G., Newark, Ill. Rock-drill	617,795	Jan. 17	1797	402	86	388
Worsley, Otto G., Newark, Ill. Expansion rock-reamer	631,517	Aug. 22	3328	756	88	1430
Worsley, Samuel L., Taunton, Mass., assignor to Brown & Sharpe Manufacturing Company, Providence, R. I. Feeding attachment for turret-lathes	622,749	Apr. 11	1017	237	87	213
Worth, Charles F. (See Stewart, Denman, and Worth.)						
Worth, Eva M., St. Louis, Mo. Underwaist	630,157	Aug. 1	806	174	88	832
Wortham, H. L. (See Terry, Owen, assignor.)						
Worthen, Charles H., Taunton, Mass. Cutting device	630,019	Aug. 1	549	121	88	832
Worthington, Albert I., and J. E. Williams, Chicago, Ill. Tobacco-pipe	629,535	July 25	2958	689	88	632
Worthington, Charles, Pittsburg, Pa. Seat-support for velocipedes	633,177	Sept. 19	1842	433	88	2096
Worthington, Charles C., Irvington, N. Y. Steam-engine	628,511	July 11	1049	245, 246	88	222
Worthington, Dall, and C. Petersen, assignors to themselves and Diven Brothers & Co., Baltimore, Md. Rotary plow	633,770	Sept. 26	2954	685, 686	88	2327
Worthington, Henry S., New York, N. Y., assignor of two-fifths to J. L. Stephens and C. H. Fisk, Covington, Ky. Vending apparatus	632,080	Aug. 29	4353	978	88	1639
Worthington, James, assignor to Manitowac Seating Company, Manitowoc, Wis. Stop-hinge	622,314	Apr. 4	206	46	87	39

Alphabetical list of patentees—Continued.

Name, residence, and invention.	No.	Date.	Monthly volume.		Official Gazette.	
			Spec.	Dr'g.	Vol.	Page.
Worthley, A. W., trustee. (See Macy, Thomas G., assignor.)						
Wortman, Theodore, Chamberlain, S. D. Gate	629,706	July 25	3251	757	88	688
Wörz, Joseph, Ulm, Germany. Ventilating apparatus for houses	621,551	Mar. 21	1885	417, 418	86	1890
Wray, Joseph H., Butte, Mont., assignor of one-third to A. N. Rosenbaum, Salt Lake City, Utah. Combined mop and brush holder	625,628	May 23	3032	690	87	1352
Wrede, Albin C., and D. R Saunders, assignors of one-third to J. N. Miller and G. Kidd, Houston, Tex. Extension car-step	630,764	Aug. 8	1941	438	88	1114
Wreede, Lynford, New York, N. Y Photographic camera	622,315	Apr. 4	207	46	87	39
Wrench, Alfred. (See Darling, Alfred, assignor.)						
Wright, Alfred H., assignor to S. H. Thresher, Norwich, Conn. Bottle	618,021	Jan. 17	2205	492	86	468
Wright, Arthur C., Worcester, Mass. Firearm	625,009	May 16	1934	434	87	1116
Wright, Austin, *et al.* (See Gartz, William H., assignor.)						
Wright, Benjamin B. and J. H., Riverside, Cal. Machine for cleaning fruit	622,937	Apr. 11	1360	312	87	278
Wright, Cary, Salmon City, Idaho, assignor of three-fourths to G. S. Terry, New York, N. Y. Mining device	624,281	May 2	623	136	87	817
Wright, Charles A., Philadelphia, Pa. Pump	617,212	Jan. 3	665	154	86	130
Wright, Charles D., assignor to Advance Specialty Company, Chicago, Ill. Electric igniter	637,057	Nov. 14	1589	343	89	1268
Wright, Charles D., assignor to Advance Specialty Company, Chicago, Ill. Electric lighting attachment for gas-fixtures	637,058	Nov. 14	1590	343	89	1268
Wright, Charles L., Moline, Ill. Keyhole-guard	620,397	Feb. 28	2911	667	86	1430
Wright, Edward T., assignor to O. S. Kelly Company, Springfield, Ohio. Winding-drum	628,977	July 18	1924	448	88	412
Wright, Francis T., Edinburg, Ind. Feeder for clover-hulling machines	618,451	Jan. 31	3050	675	86	656
Wright, Fred W., Reed City, Mich. Grinding or corrugating machine	618,312	Jan. 24	2774	615	86	590
Wright, Frederick, Dayton, Ohio. Pulley for clothes-lines	627,563	June 27	2519	554	87	2161
Wright, Frederick W. (See Beede and Wright.)						
Wright, George H. (See Cox, Reynolds, and Wright.)						
Wright, George J., New York, N. Y. Boot or shoe sole	621,010	Mar. 14	899	196	86	1688
Wright, George W., Webb City, Mo. Rock or ore crusher	626,955	June 13	1387	305, 306	87	1901
Wright, George W., Bristoria, Pa. Washing-machine	634,492	Oct. 10	981	235	89	214
Wright, Gilbert. (See Addison and Wright.)						
Wright, Gilbert. (See Davis and Wright.)						
Wright, Gilbert, Wilkinsburg, Pa., assignor to Westinghouse Electric and Manufacturing Company, of Pennsylvania. Circuit-breaker	633,773	Sept. 26	2960	687	88	2329
Wright, Gilbert, and C. Aalborg, Wilkinsburg, Pa., assignors to Westinghouse Electric and Manufacturing Company, of Pennsylvania. Switch for electric circuits	633,771	Sept. 26	2955	686	88	2328
Wright, Gilbert, and C. Aalborg, Wilkinsburg, Pa., assignors to Westinghouse Electric and Manufacturing Company, of Pennsylvania. Automatic circuit-breaker	633,772	Sept. 26	2958	687	88	2328
Wright, Granville W., New Haven, Conn. Toy	617,213	Jan. 3	666	155	86	130
Wright, Granville W., New Haven, Conn. Rubber ball	617,796	Jan. 17	1798	403	86	389
Wright, Henry E., Somerville, Mass. Handle for glass bottles	626,262	June 6	75	18, 19	87	1629
Wright, Jacob P., New Haven, Conn., assignor to Diamond Match Company, Chicago, Ill. Box-filling machine	620,526	Feb. 28	3115	712, 713	86	1470
Wright, James A., Manvel, N. D. Clutch	621,011	Mar. 14	900	196	86	1688
Wright, James E. (See Oeder and Wright.)						
Wright, James E., and W. R. Griffith, Portland, Oreg. Postmarking and stamp-canceling machine	630,964	Aug. 15	2313	526, 527	88	1211
Wright, James H. (See Wright, Benjamin B. and J. H.)						
Wright, John, Brussells, Canada. Lawn-mower	620,067	Feb. 21	2329	529	86	1305
Wright, John, and J. W. Mitchell, Mosgiel, New Zealand. Hat-fastener	631,916	Aug. 29	4049	909	88	1580
Wright, John A., and J. H. Curry, Wilkinsburg, assignors to Penn Electrical and Manufacturing Company, Irwin, Pa. Mirror	631,033	Aug. 15	2445	555	88	1237
Wright, John E., New York, N. Y. Column-printing telegraph	631,452	Aug. 22	3197	726	88	1404
Wright, John E., New York, N. Y. Telegraphic relay	631,453	Aug. 22	3199	727	88	1404
Wright, John E., New York, N. Y. Telegraph-transmitter	631,454	Aug. 22	3201	727	88	1405
Wright, John M., Oberlin, Kans. Cultivator	632,096	Mar. 28	2888	651, 652	86	2102
Wright, John S., Jr., Churchland, Va. Ventilated barrel	639,126	Dec. 12	1719	396	89	2221
Wright, Joseph F., assignor of one-third to H. C. Simms and F. B. Enslow, Huntington, W. Va. Plumb-level and square	636,191	Oct. 31	4196	963	89	889
Wright, Joseph N., London, England. Apparatus for covering strings with fly-paste	617,384	Jan. 10	1010	231	86	216
Wright, Julian T. (See Anderson, David W., assignor.)						
Wright, Lewis T., Keswick, Cal. Roasting-furnace	629,023	July 18	2008	467, 468	88	428
Wright, Lindley A., Champaign, Ill. Seeder	633,634	Sept. 26	2721	634	88	2280
Wright, Lindley A., Champaign, assignor to F. B. Tait Manufacturing Company, Decatur, Ill. Broadcast-seeder attachment	639,486	Dec. 19	2404	553	89	2372
Wright, Luther M. (See Morton, James E., assignor.)						
Wright, Morris S., Worcester, Mass. Automatic musical instrument	634,601	Oct. 10	1171	278, 279	89	250
Wright, Morris S., Worcester, Mass. Automatic musical instrument	638,615	Dec. 5	808	174, 175	89	2021
Wright, Reginald H. (See Hawkins and Wright.)						
Wright, Sam A. (See Carter and Wright.)						
Wright, Samson D., Cleveland, Ohio. Ball-bearing	637,984	Nov. 28	3715	782	89	1760
Wright, Samuel M., Denver, assignor of one-half to G W. Kiler, Rochester, Ind. Device for removing articles from elevated locations	632,330	Sept. 5	225	52	88	1751
Wright, Walton W., Memphis, Tenn. Coin-controlled vending-machine	620,527	Feb. 28	3120	713, 714, 715	86	1471
Wright, William H., Buffalo, N. Y. Electric railway	636,937	Nov. 14	1368	291, 292	89	1223
Wright, William S., Toledo, Ohio. Portable feed-cooker	623,755	Apr. 25	2833	649	87	600
Wright, William S., Toledo, Ohio. Weeder	625,078	May 16	2053	461	87	1138
Wright, Willis P., Blandinsville, Ill. Grain-elevator	617,385	Jan. 10	1011	231, 232	86	216
Wrightson, Thomas, Neasham, England. Apparatus for discharging coal into ships' holds	626,956	June 13	1389	306	87	1904
Wrigley, John, Elmira, N. Y. Cleaning device for sewers, water-closets, &c	619,920	Feb. 21	2073	469	86	1257
Wristen, Thomas C., Dighton, Kans. Compressed-air pump	631,732	Aug. 22	3722	835	88	1506
Wuelfing, Fredrick, Pontiac, Mich. Corner bending and forming press	629,412	July 25	2716	631	88	585
Wuerdeman, Emil H. (See Hartman, Edward J., assignor.)						
Wuerfel, Ernest, Chicago, Ill. Fly-trap	632,303	Sept. 5	181	41	88	1743
Wuest, Henry, and A. Klatt, New York, N. Y. Dumping-wagon	620,081	Feb. 21	2352	533	86	1309
Wuillot, Marcel, Brussels, Belgium. Electrode	633,060	Sept. 12	1583	------	88	2034
Wulff, Adolph, St. Paul, Minn. Portable smoke-house	632,955	Sept. 12	1410	326	88	2000

Alphabetical list of patentees—Continue

Name, residence, and invention.	No.	Date.	Monthly volume. Spec.	Monthly volume. Dr'g.	Official Gazette. Vol.	Official Gazette. Page.
Wulff, Anton, *et al.* (See Lindstrom, Edward, assignor.)						
Wunder, John G. A., Davenport, Iowa. Hotel-register	627,036	June 13	1527	333	87	1928
Wunderlich, Adolph. (See Johnson and Wunderlich.)						
Wunderlich, Frank W., Arlington, Mass. Sprocket-wheel for bicycles	617,797	Jan. 17	1798	403	86	389
Wunderlich, Frank W., Arlington, Mass. Driving mechanism	638,790	Dec. 12	1136	253	89	2108
Wundes, Abraham, Solingen, Germany, assignor to Geo. Borgfeldt & Company, New York, N. Y. Exhibition-case for exposing pocket-knives, &c	629,840	Aug. 1	160	37	88	752
Wurdack, William. (See Bosley and Wurdack.)						
Wurgler, Blanche D., assignor to J. G. Wurgler, Indianapolis, Ind. Suspenders	619,006	Feb. 7	405	85	86	889
Wurgler, John G. (See Wurgler, Blanche D., assignor.)						
Wurmb, Theodore H. (See Baumann, Robert, assignor.)						
Wurster, Casimir, London, England. Machine for pulping up paper and paper materials	635,412	Oct. 24	2699	618	89	581
Wurster, Charles W., Ithaca, N. Y. Automatic funnel	630,965	Aug. 15	2318	527, 528	88	1212
Wurster, Frederick W., New York N. Y. Roller-bearing	618,633	Jan. 31	3374	751	86	718
Wurts, Alexander J , assignor to Westinghouse Electric and Manufacturing Company, Pittsburg, Pa. Non-arcing controller for electric motors	625,232	May 16	2324	530	87	1189
Wurzburger, Adolph, New York, N. Y. Feather	622,835	Apr. 11	1171	272	87	240
Wussow, William H., Oshkosh, Wis., assignor of fifty-one one-hundredths to J. Fleshiem and R. E. Jennings, Menominee, Mich. Match-machine	621,886	Mar. 28	2512	561, 562, 563, 564, 565, 566, 567	86	2029
Wyatt, Bascom L., Atlanta, Ga. Furniture-brace	632,613	Sept. 5	727	168	88	1850
Wyatt, Benjamin F , Norwalk, Ohio. Shovel for laying tile	625,629	May 23	3033	691	87	1352
Wyatt, Robert L., Wilson, N. C. Bullet or projectile	622,582	Apr. 4	719	167	87	137
Wyatt, Samuel, San Francisco, Cal. Vehicle attachment and holding device	626,801	June 13	1071	242	87	1840
Wyatt, Will W., and H. Bruyn, Rockford, Iowa. Cuspidor	629,841	Aug. 1	161	38	88	752
Wybro, Harrison C., San Francisco, Cal., and W. W. Danley, Chicago, Ill ; said Wybro assignor to T. C. Dodge, San Francisco, Cal. Alarm mechanism for bank-vaults or prison-cells	627,037	June 13	1528	333, 334	87	1928
Wyckoff, Seamans & Benedict. (See Felbel, Jacob, assignor.)						
Wyckoff, Seamans & Benedict. (See Shepard, Charles H., assignor.)						
Wyckoff, Seamans & Benedict. (See Webb, George B., assignor.)						
Wygal, Frank, assignor of one-half to W. C. Billasche, Springfield, Mo. Bicycle-support	639,804	Dec. 26	2999	690	89	2510
Wylde, James J. (See Hargrove and Wylde.)						
Wyler, William H., Ragersville, Ohio. Oiler	624,282	May 2	624	136	87	817
Wylie, Robert J., Brooklyn, Iowa. Checking or unchecking device	635,367	Oct. 24	2568	597	89	556
Wylie, Thomas B., Allegheny, Pa. Proportional gas-meter	638,791	Dec. 12	1136	253	89	2108
Wylie, Thomas B., Allegheny, Pa. Gas-meter	638,792	Dec. 12	1138	253, 254	89	2108
Wylie, William H. (See Rodriguez, Miguel R., assignor.)						
Wyman, Albert O., Turner's Falls, Mass. Jacket-stretcher	624,601	May 9	1207	272	87	956
Wyman, George R., assignor to F. W. Bird & Son, Walpole, Mass. Merchandise sample-case	621,732	Mar. 21	2207	498	86	1955
Wyman, George R., assignor to F. W. Bird & Son, Walpole, Mass. Paper box	630,789	Aug. 8	1987	449	88	1124
Wyman, Horace. (See Crompton and Wyman.) (Reissue.)						
Wyman, Horace, Worcester, Mass. Friction-pulley	627,084	June 13	1606	351	87	1943
Wyman, Horace, assignor to Crompton & Knowles Loom Works, Worcester, Mass. Loom	623,114	Apr. 11	1696	391, 392	87	343
Wyman, Horace, assignor to Crompton & Knowles Loom Works, Worcester, Mass. Warp-stop-motion for looms	631,240	Aug. 15	2794	634	88	1307
Wyman, Horace, assignor to Crompton & Knowles Loom Works, Worcester, Mass. Warp stop-motion for looms	631,242	Aug. 15	2804	635	88	1309
Wyman, Horace, assignor to Crompton & Knowles Loom Works, Worcester, Mass. Warp stop-motion for looms	631,243	Aug. 15	2811	635	88	1310
Wyman, Horace, assignor to Crompton & Knowles Loom Works, Worcester, Mass. Warp stop-motion for looms	631,244	Aug. 15	2816	636	88	1311
Wyman, Horace, assignor to Crompton & Knowles Loom Works, Worcester, Mass. Weft parting or cutting mechanism for looms	631,245	Aug. 15	2821	636	88	1312
Wyman, Horace, and J. A. Clark, assignors to Crompton & Knowles Loom Works, Worcester, Mass. Warp stop-motion for looms	631,241	Aug. 15	2799	634	88	1308
Wyman, Jasper. (See Foster, Albion W., assignor.)						
Wyman, William H., St. Johns, Canada. Ribbon or braid display cabinet	628,642	July 11	1331	310	88	277
Wymond, Joe S. (See Wymond, Randall J. and J. S.)						
Wymond, Randall J. and J. S., Aurora, Ind. Barrel	620,525	Feb. 28	3114	712	86	1470
Wymonde, Thomas H., Vancouver, Canada. Rendering apparatus	628,378	July 4	803	186	88	154
Wynkoop, Edgar C. (See Martin, James L., assignor.)						
Wynkoop, Jehiel F., Marengo, Ill. Trace-holder	632,614	Sept. 5	728	168	88	1851
Wynn, Robert E., assignor of forty-nine one-hundredths to Y. N. New, Barnard, Ind. Air-brake for vehicles	619,381	Feb. 14	1085	244, 245	86	1042
Wynne, Thomas F., Lindale, Tex. Electric belt	621,733	Mar. 21	2208	498	86	1955
Wynne, William R., London, England. Signaling and controlling apparatus for motor-vehicles	631,917	Aug. 29	4050	909	88	1580
Wyss, Samuel H. (See Tribble, William, assignor.)						
Wythe, William W., Miles Grove, Pa. Acetylene-gas generator	640,066	Dec. 26	3466	795	89	2603
Xander, Jonathan T., Pennsburg, Pa. Display-rack	622,316	Apr. 4	208	47	87	40
Xander, Mary E., Pennsburg, Pa. Revolving display-rack	634,636	Oct. 10	1227	292	89	261
Xntric Valve Company. (See Robinson, Andrew J., assignor)						
Xpedite Machine Company. (See Beaudry, Zotique, assignor.)						
Yager, Charles, New York, N. Y. Music holder and turner	619,063	Feb. 7	506	106, 107	86	909
Yaggy, Levi W., Lake Forest, Ill. Advertising apparatus	620,689	Mar. 7	266	54, 55	86	1554
Yaggy, Levi W., Lake Forest, Ill. Coin-controlled vending and display apparatus	620,690	Mar. 7	272	55, 56, 57	86	1555
Yakima Valley Fruit Company. (See Crocker, Ralph W., assignor.)						
Yakley, Mortimer, and N. F. Prudden, Chelsea, Mich.; said Yakley assignor to said Prudden. Weather-strip	635,708	Oct. 24	3223	742	89	684
Yale, Thomas W., Rochester, N. Y. Device for preventing false alarms	635,950	Oct. 31	3707	856	89	790
Yale & Towne Manufacturing Company. (See Kelsey, William B., assignor.)						
Yale & Towne Manufacturing Company. (See Taylor, Warren H., assignor.)						
Yale, Washington. (See Morse, Horace T., assignor.)						
Yancey, Lee, Chicago, Ill. Oil-gas generator for stoves	637,953	Nov. 28	3660	768	89	1749
Yandall, Jacob, assignor to Western Shade Cloth Company, Chicago, Ill. Shears	635,457	Oct. 24	2788	637	89	600
Yankauer, Sidney, New York, N. Y. Clinical thermometer	626,124	May 30	4039	922	87	1558
Yankee, Elmer, Ebony, Tex. Wire-stretcher	627,564	June 27	2521	554	87	2161

Alphabetical list of patentees—Continued.

Name, residence, and invention.	No.	Date.	Monthly volume. Spec.	Monthly volume. Dr'g.	Official Gazette. Vol.	Official Gazette. Page.
Yankee Manufacturing Company. (See Ritchel, Charles F., assignor.)						
Yarbrough, Asa R., Stephens, Ark. Plow	618,927	Feb. 7	210	46	86	846
Yardley, George H. (See Hanigan and Yardley.)						
Yarnold, Charles J. (See Rosenblum and Yarnold.)						
Yarton, James A., assignor to Automatic Gas Lamp Company, Omaha, Nebr. Gasolene-lamp	623,756	Apr. 25	2835	650	87	600
Yarton, James A., Kansas City, Kans., assignor to Automatic Gas Lamp Company, Omaha, Nebr. Incandescent vapor-burner	624,283	May 2	625	137	87	817
Yarton, James A., assignor to Automatic Gas Lamp Company, Omaha, Nebr. Oil-gas lamp	625,630	May 23	3034	691	87	1352
Yarton, James A., assignor to Automatic Gas Lamp Company, Omaha, Nebr. Lighting attachment for vapor-lamps	629,227	July 18	2368	550	88	496
Yates, Abraham L., Niagara Falls, N. Y. Indexed book	639 487	Dec. 19	2405	553	89	2373
Yates, Alfred, Somerville, Mass. Brick-kiln	636,310	Nov. 7	143	31, 32	89	950
Yates, David P., Salisbury, Mo. Wire-stretcher	620,629	Mar. 7	148	31	86	1531
Yates, Edward D., Franklin, Pa. Oil-well pumping-rig	635,630	Oct. 24	3094	710	89	659
Yates, Franklin, Racine, Wis. Sash holder and fastener	633,937	Sept. 26	3225	752	88	2381
Yates, Joseph, London, England. Rotary engine	627,038	June 13	1530	334	87	1929
Yates, Liberty L., New York, N. Y. Trousers	630,639	Aug. 8	1748	392	88	1076
Yates, Robert, St. Louis, Mo. Pulverizer	634,254	Oct. 3	537	135	89	108
Yates, Robert T., Austin, Tex. Crayon-holder	639,643	Dec. 19	2683	615	89	2430
Yates, William B., assignor to Miehle Printing Press and Manufacturing Company, Chicago, Ill. Bed-motion for printing-presses	620,630	Mar. 7	149	31	86	1531
Yawman & Erbe Manufacturing Company. (See Gipner, George F., assignor.)						
Yawman & Erbe Manufacturing Company. (See Yawman, Philip H., assignor.)						
Yawman, Philip H., assignor to Yawman & Erbe Manufacturing Company, Rochester, N. Y. Fishing-reel	629,842	Aug. 1	162	38	88	752
Yawn, John P., Moselle, Miss. Window-operating mechanism	639,329	Dec. 19	2099	482, 483	89	2312
Yaxley, Ernest E., and C. C. Cadden, assignors to W. T. Blaine, Chicago, Ill. Signal-plate	640,153	Dec. 26	3616	832	89	2635
Yeager, Charles B., and H. Kastrup, St. Louis, Mo. Loose-pulley bearing and lubricator	620,068	Feb. 21	2330	529	86	1305
Yeager, Charles E., Prairie Creek, Ind. Lock	631,918	Aug. 29	4053	909	88	1581
Yeakel, Abraham M., Perkasie, Pa. Watchcase-pendant	621,887	Mar. 28	2521	567	86	2030
Yeiser, John C., and E. B. Hancock, Austin, Tex. Car-coupling	632,861	Sept. 12	1236	283	88	1968
Yeiser, Joseph P. (See Evridge, Charles B., assignor.)						
Yent, L. L. (See Farley, James W., assignor.)						
Yeo, Charles L., Battle Creek, Mich. Blackboard-eraser	618,759	Jan. 31	3599	804	86	764
Yeo, Norman C. (See Yeo, Stanley D. and N. C.)						
Yeo, Stanley D. and N. C., assignors of one-half to M. Hansman, Port Hope, Canada. Boiler-tube cleaner	625,865	May 30	3491	790	87	1458
Yerby, Henry C., and R. A. Ludwick, Leslie, Mich. Toe and heel clip	629,945	Aug. 1	405	88	88	802
Yetman, Charles E., Oak Park, assignor to World Flash Company, Chicago, Ill. Combined type-writer and telegraphic transmitter	637,059	Nov. 14	1591	343, 344	89	1268
Yetter, Edward J., Denver, Colo. Roofing composition	633,255	Sept. 19	2002	------	88	2128
Yetter, Joseph D. (See Troutman and Yetter.)						
Yoch, Agnes, executrix. (See Yoch, Benhard.)						
Yoch, Benhard, deceased, Belleville, Ill.; A. Yoch, executrix. Mining-engine	634,422	Oct. 3	849	205	89	170
Yocom, James, Philadelphia, Pa. Friction-clutch	635,834	Oct. 31	3492	802	89	748
Yocom, James, Philadelphia, Pa. Friction-clutch	635,835	Oct. 31	3494	803	89	748
Yoder, Samuel H., Reading, Pa. Mail-box	632,390	Sept. 5	329	74	88	1772
Yonge, Chandler I., Montague, assignor of two-thirds to L. Volk and G. K. Robinson, Ocala, Fla. Hammer	623,455	Apr. 18	2317	531	87	484
Yorger, Charles, and D. W. West, Indianapolis, Ind. Store-cabinet for sales accounts	634,713	Oct. 10	1371	322	89	291
York, Andrew J., assignor of one-half to W. C. Canada, Redboiling Springs, Tenn. Self-waiting table	628,153	July 4	369	87	88	74
York, James E., Duluth, Minn. Rerolling rails	629,413	July 25	2718	631	88	585
York, John A. (See Winters, Frederick V., assignor.)						
York, Levi D. (See Stalder, Harry C. and W. B., assignors.)						
York Manufacturing Company. (See McCormick, John B., Jr., assignor.)						
Yorke, Eugene H., Portland, Me. Gas-scrubber	632,081	Aug. 29	4355	978	88	1639
Yost, Penfield F. (See Gorman and Yost.)						
Yost, Solomon C., assignor to Electric Wheel Company, Quincy, Ill. Pattern for casting metal hubs	638,616	Dec. 5	812	175	89	2021
Youlden, George A., Providence, R. I. Window-screen	624,418	May 2	862	194	87	867
Youmans, George P., Galesburg, Mich. Windmill	617,068	Jan. 3	404	98	86	78
Youmans, George W., Rochester, Minn. Pump-piston	627,039	June 13	1532	334	87	1929
Youmans, William W., Caldwell, Kans. Collar-crimper	618,552	Jan. 31	3235	718	86	691
Young, Albert A., Wakefield, Mass. Air goods	634,788	Oct. 10	1492	351	89	313
Young, Andrew C., Albertville, Ala. Combined fertilizer-distributer and cotton-seed planter	625,631	May 23	3036	691	87	1353
Young, Arthur J., and C. L. Magune, assignors of one-third to T. Hawken, Rockland, Me. Trolley	621,399	Mar. 21	1590	352	86	1835
Young, Charles E., Akron, Ohio. Electric-railway switch	632,980	Sept. 12	1450	336	88	2007
Young, Edwin A., and I. T. Drake, Medalia, Minn. Variable-speed gear for bicycles	622,029	Mar. 28	2780	627	86	2080
Young, Edwin J., Wadsworth, Ohio. Sprayer	617,847	Jan. 17	1890	421	86	408
Young, Edwin J., assignor to Ohio Match Company, Wadsworth, Ohio. Machine for dipping matches	623,757	Apr. 25	2837	650	87	600
Young, Edwin J., assignor to Ohio Injector Company, Wadsworth, Ohio. Injector	628,684	July 11	1401	326	88	291
Young, Ella F., San Francisco, Cal. Hose-supporter	638,540	Dec. 5	668	140	89	1993
Young, Frank. (See Cruickshank, James, assignor.)						
Young, Frank J. (See Hanson and Johnson, assignors.)						
Young, Frank P. W. (See Kinsey and Young.)						
Young, Franklin K., Boston, Mass. Automatic firearm	624,145	May 2	369	76, 77, 78	87	770
Young, Franklin K., Boston, Mass. Cartridge	624,146	May 2	385	78	87	774
Young, Frans W. (See Erickson and Young.)						
Young, Freeman N., and F. E. Thompson, Arlington, Mass. Vehicle-body	618,634	Jan. 31	3376	752	86	718
Young, George F., *et al.* (See McCord, Luther A., assignor.)						
Young, George L., Magenta, La. Plow-foot and fender	640,067	Dec. 26	3469	796	89	2604
Young, George W. (See Horton, Fredrick B., assignor.)						
Young, Herbert W., Penacook, N. H. Maximum-meter	623,861	Apr. 25	3077	709	87	647
Young, Hiram C., Goose Creek, Ky. Wheel-cultivator. (Reissue)	11,708	Jan. 10	1600	361	86	331
Young, James E., Wayland, N. Y. Fire-escape	628,736	July 11	1490	345	88	311
Young, James K., Meriden, Conn. Detachable fountain or reservoir for pens	619,528	Feb. 14	1339	308	86	1091
Young, James S., Barre, Vt. Stone-sawing machine	636,094	Oct. 31	4023	919	89	853
Young, Jesse R., Bolivar, Mo. Hinged buckle	625,233	May 16	2328	530	87	1190
Young, John B., Chicago, Ill. Pedal-crank extension attachment	628,173	July 4	405	95	88	82

Alphabetical list of patentees—Continued.

Name, residence, and invention.	No.	Date.	Monthly volume.		Official Gazette.	
			Spec.	Dr'g.	Vol.	Page.
Young, John C., Jr., Detroit, Mich. Land and marine velocipede	619,818	Feb. 21	1889	431	86	1221
Young, John H., Bernerville, N. Y. Spring-tooth harrow	621,954	Mar. 28	2640	594	86	2052
Young, John H., Kingsbury, Ind. Band-cutter and feeder	625,010	May 16	1936	434, 435	87	1116
Young, John K., Carnegie, Pa. Nut-lock	622,583	Apr. 4	720	167	87	137
Young, John P., New Haven, Conn. Portable horse-stall for railway-cars	617,623	Jan. 10	1448	330, 331	86	302
Young, John S., assignor to H. M. Millington, London, England. Stringed musical instrument	625,996	May 30	3731	846	87	1504
Young, Jonas F. (See Neumeyer and Young.)						
Young, Jonas F., *et al.* (See Abbott, William O., assignor.)						
Young, Jonathan E., and G. Morden, Conneaut, Ohio. Railway-switch-operating mechanism	629,414	July 25	2718	631	88	586
Young, Lewis T. (See Alter and Young.)						
Young, Lorin W., Dayton, Ohio. Combined hedge and wire fence	619,007	Feb. 7	406	85	86	889
Young, Lorin W., Dayton, Ohio. Combined hedge and wire fence	630,640	Aug. 8	1749	392	88	1076
Young, Mary L. (See Lander, Frederick J., assignor.)						
Young, McClintock, Frederick, Md. Corn-husking machine	637,194	Nov. 14	1872	402, 403	89	1319
Young, McClintock, Frederick, Md., assignor to Palmetto Fibre Company, of Illinois. Work-feeding mechanism	617,431	Jan. 10	1102	251, 252, 253	86	233
Young, Owen A., Easton, Pa. Grass-catcher for lawn-mowers	617,006	Jan. 3	272	61	86	54
Young, Patrick, Danbury, Conn. Machine for clipping hair from skins of fur-bearing animals	626,473	June 6	473	110, 111	87	1705
Young, Ransome B., Hazleton, Pa. Plumb-level	634,657	Oct. 10	1266	299	89	270
Young, S. L., *et al.* (See Brown, Edmond H., assignor.)						
Young, William, Peebles, W. R. Herring, Edinburgh, and A. Bell, Peebles, Scotland. Producing heating and illuminating gas	625,079	May 16	2057	462	87	1138
Young, William H. F., Muncie, Ind. Bicycle-saddle	619,244	Feb. 7	842	185	86	978
Young, William H. F., Muncie, Ind. Bicycle	640,068	Dec. 26	3470	796	89	2605
Young, William J., Lynn, Mass. Counter-skiving machine	620,010	Feb. 21	2225	505, 506	86	1286
Young, William J., Lynn, Mass. Heel-compressing machine	628,512	July 11	1057	246, 247	88	224
Young, William J., Lynn, Mass. Heel-compressing machine	628,513	July 11	1062	248	88	225
Young, William S., Artesia, Cal. Swing	634,934	Oct. 17	1748	415	89	380
Young, William T., Vineland, N. J. Apparatus for separating skin from edible parts of fruits and vegetables	622,584	Apr. 4	721	167	87	137
Young, William T., Vineland, N. J. Cultivator-tooth	623,645	Apr. 25	2062	609	87	566
Youngblood, George W. (See Falkenstein, Charles H., assignor.)						
Youngs, Charles W., Willis, Mich., assignor of one-half to W. H. Harrison, Marengo, Ill. Thill-coupling	624,602	May 9	1209	272	87	956
Youngs, George, Fayetteville, Mo. Shock-binder	630,158	Aug. 1	807	174	88	882
Youngstown Range and Stove Company. (See Pitney, Albert L., assignor.)						
Yunck, Frederick, Bryan, Ohio. Convertible shelf and table	621,888	Mar. 28	2522	567	86	2030
Yunck, Frederick, Bryan, Ohio. Cabinet	621,889	Mar. 28	2523	568	86	2031
Zacher, Gustav, Berlin, Germany. Swimming apparatus	623,060	Apr. 11	1567	362	87	319
Zack, Marshall, Streator, Ill. Bicycle attachment	618,195	Jan. 24	2572	569	86	551
Zack, Morris. New Haven, Conn. Fish-trap	619,819	Feb. 21	1890	431	86	1222
Zadig, Hermann, *et al.* (See Kenney, Augustine, assignor.)						
Zahn, Max, Artern, Germany. Refining sugar	631,603	Aug. 22	3492	789	88	1464
Zalinski, Edmund L., *et al.* (See Cudner, Gustavis L., assignor.)						
Zalondek, Antone A., Oklahoma, Okla. Ter Back-pedaling brake	624,284	May 2	627	137	87	818
Zamboni, Lawrence, New York, N. Y. Riveting-tool	626,802	June 13	1073	242	87	1840
Zampis, Victor. (See Hampel and Zampis.)						
Zander, Friedrich W. E., Charlottenburg, Germany, assignor to Siemens & Halske Electric Company of America, Chicago, Ill. Electric traction-motor	627,565	June 27	2522	555	87	2161
Zander, John, Chicago, Ill. Coin-actuated attachment for gas-meters	618,928	Feb. 7	212	46, 47	86	846
Zanetti, Giulio S., Bologna, Italy. Dam or revetment	627,375	June 20	2158	475	87	2074
Zarski, Ian. (See Turowski and Zarski.)						
Zautner, Charles, *et al.* (See Walter, Franklin, assignor.)						
Zearfoss, Rupert E., Keota, Iowa. Hen's nest	634,051	Oct. 3	117	30	89	27
Zech, John N. and N. P., Milwaukee, Wis. Brake for cars	640,069	Dec. 26	3473	797	89	2605
Zech, Nicholas P. (See Zech, John N. and N. P.)						
Zeh, Edmund, assignor to Niagara Machine and Tool Works, Buffalo, N. Y. Machine for seaming and curling sheet metal	620,398	Feb. 28	2912	667, 668	86	1431
Zeidler, Gustav, New York, N. Y. Calculating-machine	627,791	June 27	2932	642, 643	87	2243
Zeidler, John L. (See McCormac and Lapthorne, assignors.)						
Zeigler, George E., Parnassus, Pa. Wrench	627,950	June 27	3224	706	87	2303
Zeigler, Lyman H., Milbank, S. D. Line-pen	623,391	Apr. 18	2207	506	87	461
Zeiser, Gustav A., St. Louis, Mo. Window-slide protector	617,386	Jan. 10	1015	232	86	217
Zeiss, Firm of Carl. (See Berger, Ernst M., assignor.)						
Zeiss, Firm of Carl. (See Berger, Max, assignor.)						
Zeiss, Firm of Carl. (See Pulfrich, Carl, assignor.)						
Zeitler, M., *et al.* (See Horn, Louis, assignor.)						
Zell, William F., Denver, Colo. Hydrant	617,848	Jan. 17	1891	422	86	408
Zeller, George J. (See Mainz and Zeller.)						
Zellers, Mahlon M. (See Richmond and Zellers.)						
Zellweger, John, St. Louis. Mo. Roasting-kiln	627,609	June 27	2619	576, 577	87	2181
Zeltner-Dietz, Johannes. (See Walter, Eugen, assignor.)						
Zenner, David. (See Benda, Sydney, assignor.)						
Zent, Schuyler W., Marion, Ohio. Gas or gasolene engine	637,317	Nov. 21	2118	456	89	1384
Zeppelin, Ferdinand G., Stuttgart, Germany. Navigable balloon	621,195	Mar. 14	1227	270	86	1752
Zerbe, James S., New York, N. Y., assignor to American Hull Cleaner Company, Philadelphia, Pa. Apparatus for cleaning hulls of vessels	625,080	May 16	2059	462	87	1139
Zerener, Martin B., assignor to Gold Extraction Syndicate, Limited, London, England. Precipitation of precious metals from their cyanid solutions	638,372	Dec. 5	358	75	89	1935
Zetter, Albert, Freeburg, Ill. Device for use in extracting railway-ties or the like	623,300	Apr. 18	2045	470	87	428
Zetter, Albert, Freeburg, Ill. Device for use in extracting railway-ties, &c	637,843	Nov. 28	3452	721	89	1708
Zickefoose, William C., Des Moines, Iowa. Fence-post	633,497	Sept. 19	2435	573	88	2211
Zickerman, Wilhelm A., Hyde Park, Mass., assignor, by mesne assignments, of one-half to O. B. Emery. Cushion-heel	634,435	Oct. 3	878	212	89	177
Zickler, Karl, Brünn, Austria-Hungary. Telegraphy by means of electric light	625,823	May 30	3406	773	87	1442
Ziegenhorn, Henry C., and S. C. Guingrich, East Lynn, Ill. Seed-sower	635,836	Oct. 31	3495	803	89	749
Ziegfeld, Hugo. (See Morfoot, Benjamin W., assignor.)						
Ziegler, Alfred M., Boston, Mass. Suspender-mounting	620,399	Feb. 28	2916	668	86	1431

Alphabetical list of patentees—Continued.

Name, residence, and invention.	No.	Date.	Monthly volume.		Official Gazette.	
			Spec.	Dr'g.	Vol.	Page.
Ziegler, Andrew J., J. B., and W. D., Hazleton, Pa. Washing-machine	633,178	Sept. 19	1843	433, 434	88	2096
Ziegler, Hans, Reutlingen, Germany. Fastener for neckties	627,566	June 27	2524	555	87	2161
Ziegler, Henry, New York, N. Y. Piano	634,282	Oct. 3	585	145	89	117
Ziegler, Jacob B. (See Ziegler, Andrew J., J. B., and W. D.)						
Ziegler, John F., Toledo, Ohio. Filter	620,208	Feb. 28	2593	589	86	1368
Ziegler, Josef, assignor to F. Fritzsche & Co., Hamburg, Germany. Synthetic violet oil and making same	626,585	June 6	657	------	87	1742
Ziegler, Oscar J., Freeport, Ill. Feed crusher and grinder	625,081	May 16	2061	462, 463	87	1139
Ziegler, Oscar J., assignor to Stover Manufacturing Company, Freeport, Ill. Grinding-mill	634,052	Oct. 3	118	30	89	27
Ziegler, Oscar J., assignor to Stover Manufacturing Company, Freeport, Ill. Grinding-mill	634,053	Oct. 3	120	31	89	27
Ziegler, Paul J. (See Connor, Ziegler, and Breland.)						
Ziegler, Peter W., Cannstadt, Germany. Side steel for corsets	626,957	June 13	1391	306	87	1901
Ziegler, William D. (See Ziegler, Andrew J., J. B., and W. D.)						
Ziegler, William H. (See Lotherington, Thomas, assignor.)						
Zielke, Edward, Carroll, Nebr. Ditching and grading machine	618,929	Feb. 7	214	47, 48	86	846
Zielke, Fred, assignor to G. Seubert, Marshfield, Wis. Automatic stop for machines	629,883	Aug. 1	246	55	88	768
Zies, Charles, Baltimore, Md. Automatic keg-soaking apparatus	620,820	Mar. 7	522	111	86	1604
Ziethen, Wilhelm, Berlin, Germany. Compass for drawing conic sections	639,488	Dec. 19	2406	454	89	2373
Zigler, Edward H., *et al.* (See Spencer, Oliver H. P. G., assignor.)						
Zika, Anthony V. and J. T., Cleveland, Ohio. Music holder and turner	633,710	Sept. 26	2855	664	88	2307
Zika, Joseph T. (See Zika, Anthony V. and J. T.)						
Zimmerman, Carl T. E., Cumberland, Wis. Pendulum-escapement	633,938	Sept. 26	3226	752	88	2382
Zimmerman, Charles, assignor of two-thirds to H. Zimmerman, Frederick, Md., and G. Zimmerman, Fremont, Ohio. Toy flying-machine or kite	634,386	Oct. 3	787	188, 189	89	156
Zimmerman, Charles L., Chicago, Ill. Acetylene-gas generator	634,319	Oct. 3	663	161	89	134
Zimmerman, George, *et al.* (See Zimmerman, Charles, assignor.)						
Zimmerman, Harry, *et al.* (See Zimmerman, Charles, assignor.)						
Zimmerman, Harry, Frederick, Md. Hose-coupling	627,664	June 27	2718	595	87	2200
Zimmerman, John H., assignor of one-half to J. W. Phillips, Hardpan, Pa. Level	635,837	Oct. 31	3496	803	89	749
Zimmerman, Otto O., New York, N. Y. Bicycle-brake	624,285	May 2	628	137	87	818
Zimmerman, William C. F., Lone Tree, Iowa. Feed-mill	626,125	May 30	4040	922	87	1558
Zimmermann, Edward, *et al.* (See Daigneau, John G., assignor.)						
Zimmermann, Lüthy & Co., Chemische Fabrik Brugg. (See Zimmermann, Robert, assignor.)						
Zimmermann, Robert, assignor to Zimmermann, Lüthy & Co., Chemische Fabrik Brugg, Brugg, Switzerland. Closing device for receptacles having capillary openings for transport, storage, and use of volatile liquids	635,631	Oct. 24	3096	710	89	659
Zimmermann, William F., East Orange, N. J. Electric vehicle	628,514	July 11	1067	248	88	225
Zingler, Maximilian, London, England. Composition for treating decayed or other rubber	630,435	Aug. 8	1369	------	88	1003
Zingsem, Frederick W., assignor of one-half to W. F. Lewis, New York, N. Y. Carbonating-machine	626,126	May 30	4043	923	87	1559
Zinn, George E., Chicago, Ill. Dental disk-holder	621,987	Mar. 28	2714	612	86	2067
Zinn, Harley A., Oil City, assignor of one-half to W. Allison, Shamokin, Pa. Steam-engine	639,644	Dec. 19	2684	615	89	2430
Zinn, Jens, Copenhagen, Denmark. Built-up shield	626,402	June 6	353	82	87	1682
Zinn, John H., Gettysburg, Pa. Combination cultivating-machine	636,609	Nov. 7	670	147	89	1058
Zinn, Mary. (See Scheuber, August W., assignor.)						
Zinsmayer, Robert, Galion, Ohio. Cash-depository	622,097	Mar. 28	2890	652	86	2102
Zippler, Michael, Allegheny, Pa. Cupola-furnace	638,541	Dec. 5	669	140	89	1993
Zirngibl, Hermann, Buffalo, N. Y. Microscope	621,196	Mar. 14	1229	271	86	1752
Zoëga, Eduard, Berlin, Germany. Sounding-board for pianos	625,824	May 30	3408	774	87	1442
Zoeller, Theodore J., assignor to Davidson Lock Company, Nashville, Tenn. Permutation-lock	633,711	Sept. 26	2858	664	88	2308
Zoeller, Theodore J., assignor to Davidson Lock Company, Nashville, Tenn. Permutation-lock	636,882	Nov. 14	1245	268	89	1200
Zoeller, Theodore J., assignor to Davidson Lock Company, Nashville, Tenn. Permutation-lock	636,883	Nov. 14	1247	268	89	1200
Zoerb, Elizabeth. (See Zoerb and Becker, assignors.)						
Zoerb, William, Dedham, Mass. Eyeglass or spectacle case	624,887	May 9	1726	390	87	1058
Zoerb, William, Dedham, and A. Becker, Winthrop, assignors to E. Zoerb, Dedham, Mass. Eyeglass or spectacle case	624,603	May 9	1210	272	87	957
Zollars, V. B. (See Phillips, Robert E., assignor.)						
Zonker, Wayne, Corunna, Ind. Feed-trough	629,415	July 25	2720	631	88	586
Zonker, Wayne, Corunna, Ind. Churn	639,330	Dec. 19	2101	483	89	2312
Zook, Abraham P., Belleville, Pa. Gate	621,513	Mar. 21	1807	401, 402	86	1875
Zorg, Alexander, *et al.* (See Bachmann and Vogt, assignors.)						
Zorn, Henri, Le Locle, Switzerland. Device for securing mechanical elements	628,060	July 4	181	41	88	37
Zschernig, Friedrich E., Dresden, assignor to E. Schürmann, Coswig, Germany. Cigarette-machine	632,933	Sept. 12	1377	318, 319	88	1993
Zuber, Henry. (See Livingston, Louis H., assignor.)						
Zuccarello, Napoleon B., Nashville, Tenn. Wood-bending machine	619,459	Feb. 14	1224	278	86	1068
Zuccato, Eugenio de, London, England. Perforator for producing stencils	625,914	May 30	3578	812	87	1474
Zuck, John G., assignor of one-half to W. Lark, Cleveland, Ohio. Folding square	632,799	Sept. 12	1127	260	88	1946
Zucker & Levett & Loeh Company. (See Haas, Harry L., assignor.)						
Zucker, Louis, assignor of three-fourths to M. Zucker, Oakland, Cal. Invalid-bedstead	622,317	Apr. 4	210	47, 48	87	40
Zucker, Maurice. (See Zucker, Louis, assignor.)						
Zugt, Hans. (See Emanuel, Wächter, and Zugt.)						
Zunino, Frank, *et al.* (See Demaria and Ranzini, assignors.)						
Zürcher, Otto, London, England. Cattle-food from bananas and making same	620,209	Feb. 28	2595	------	86	1369
Zwart, Klaas, Kampen, Netherlands. Coupling for railway-carriages	626,263	June 6	76	19	87	1629
Zweigbergk, Thorsten von, Cleveland, Ohio. Controller	624,719	May 9	1407	315	87	996
Zweigbergk, Thorsten von, Cleveland, Ohio. Controller	625,915	May 30	3579	812, 813	87	1474
Zweigbergk, Thorsten von, Cleveland, Ohio. Controller	627,376	June 20	2160	475, 476	87	2075
Zweigbergk, Thorsten von, Cleveland, Ohio. Speed-indicator	629,946	Aug. 1	406	88, 89	88	802
Zweigbergk, Thorsten von, Cleveland, Ohio. Bearing	633,774	Sept. 26	2963	688	88	2329
Zweigbergk, Thorsten von, Cleveland, Ohio. Bearing	633,775	Sept. 26	2964	688	88	2329
Zwietusch, Oscar B. (See Zwietusch, Otto and O. B.)						
Zwietusch, Otto, Milwaukee, Wis. Apparatus for racking beer	623,758	Apr. 25	2839	651	87	601
Zwietusch, Otto and O. B., Milwaukee, Wis. Filter	627,675	June 27	2733	599	87	2203

ALPHABETICAL LIST OF PATENTEES OF DESIGNS.

Name, residence, and design.	No.	Date.	Official Gazette. Volume.	Page.
A. A. Griffing Iron Company. (See Waggoner, Edward P., assignor.)				
A. M. Collins Manufacturing Company. (See Odgers, John P., assignor.)				
Abbott, Elmer D., assignor of one-half to J. W. R. Cline, Springfield, Ohio. Clamp-body	29,974	Jan. 10	86	335
Abbott, William O., Kittanning, Pa. Envelop	31,725	Oct. 24	89	700
Acme Pipe Clamp Company. (See Wahlert, Henry A., assignor.)				
Acme Staple Company. (See Conn, Morris E., assignor.)				
Adair, W. T., *et al.* (See Templeton, William G., assignor.)				
Adams, George C., New Britain, Conn. Garment-supporter loop	31,994	Dec. 19	89	2451
Adams, George E., New Britain, Conn. Garment-supporter loop	31,912	Nov. 28	89	1855
Adams, John M., Chicago, Ill. Head or foot for bedsteads	30,251	Feb. 21	86	1318
Adams, Thomas, Highland, N. Y. Folding chair	31,698	Oct. 17	89	514
Adams, Walter S., assignor to J. A. Brill, Philadelphia, Pa. Suspension-link for car-trucks	32,034	Dec. 26	89	2643
Adams & Westlake Company. (See Hamm William S., assignor.)				
Adams & Westlake Company. (See Knapp and Wilmot, assignors.)				
Adams, William T., Reading, Pa. Door-knob	30,720	May 9	87	1063
Adler, Henry, Allegheny, Pa. Oven	31,905	Nov. 28	89	1854
Adler, Henry, Allegheny, Pa. Oven	31,906	Nov. 28	89	1854
Ahrenfeldt, Charles J., New York, N. Y. Cup	30,521	Apr. 11	87	348
Ahrenfeldt, Charles J., New York, N. Y. Plate	30,522	Apr. 11	87	348
Ahrenfeldt, Charles J., New York, N. Y. Pot	30,523	Apr. 11	87	349
Ahrenfeldt, Charles J., New York, N. Y. Covered dish	30,524	Apr. 11	87	349
Ahrenfeldt, Charles J., New York, N. Y. Covered dish	30,525	Apr. 11	87	349
Ahrenfeldt, Charles J., New York, N. Y. Plate or similar article	31,620	Oct. 10	89	341
Ahrenfeldt, Charles J., New York, N. Y. Plate or similar article	31,707	Oct. 24	89	697
Ahrenfeldt, Charles J., New York, N. Y. Plate or similar article	31,708	Oct. 24	89	697
Ahrenfeldt, Charles J., New York, N. Y. Plate or similar article	31,709	Oct. 24	89	697
Albachary, Jacques, Dresden, Germany. Drinking-cup	30,008	Jan. 17	86	479
Alden, Herbert W., Hartford, Conn., assignor to Columbia and Electric Vehicle Company, Hartford, Conn., and Jersey City, N. J. Automobile-body	31,204	July 11	88	379
Alden, Herbert W., Hartford, Conn., assignor to Columbia and Electric Vehicle Company, Hartford, Conn., and Jersey City, N. J. Motor-casing for vehicles	31,258	July 18	88	538
Algots, John, Chicago, Ill. Bicycle lunch-box	31,403	Aug. 15	88	1324
Alig, George, Indianapolis, Ind. Cooking-stove	31,649	Oct. 10	89	346
Alker, Thomas, Pittsburg, Pa. Hook	31,995	Dec. 19	89	2452
Allen, Aaron, Philadelphia, Pa. Cutting-blade for wall-paper-trimming machines	30,676	May 2	87	880
Allen, John R., Pemberton, N. J. Harness trace-hook	31,978	Dec. 12	89	2253
Allen, Melvin P., Ottawa, Kans. Hat-band protector	31,844	Nov. 14	89	1335
Allen, Samuel L., Moorestown, N. J. Cultivator-frame	30,069	Jan. 24	86	626
Allen, William P., Bridgeport, Conn. Eye for corset-hooks	31,176	July 11	88	374
Allerton, Duane F., Benton Harbor, Mich. Wrench	29,985	Jan. 10	86	336
Allier, Emile, Chicago, Ill. Spraying-nozzle member	31,408	Aug. 15	88	1325
Alling, Wilbur M. (See Shaffer, Walter, assignor.)				
Alsup, Jefferson D. (See Burnham and Alsup.)				
Altshuler, Josephine, New Whatcom, Wash. Game-board	30,210	Feb. 14	86	1162
Alvey, Benjamin H., Louisville, Ky., assignor of one-half to C. H. Roberts, Washington, Ind. Stopper or nozzle	31,128	July 4	88	179
American Cut Glass Company. (See Healy, Patrick H., assignor.)				
American Electrical Novelty and Manufacturing Company. (See Hitzelberger, Gustave F., assignor.)				
American Hard Rubber Company. (See Grell, Frederick W., assignor.				
American Lamp and Brass Company. (See Gallimore, William W., assignor.)				
American Lithographic Company. (See Speakmau, Charles A., assignor.)				
American Lithographic Company. (See Witsch, Nicholas, assignor.)				
American Miniature and Decorative Lamp Company. (See Jaeger, Herman J., assignor.)				
American Mutoscope Company. (See Knowles, George E., assignor.)				
American Peg Pool Table Company. (See Fullington, William H., assignor.)				
American Pulley Company. (See Corscaden, Thomas, assignor.)				
American Saddle Company. (See Deem, Miller M., assignor.)				
American School Furniture Company. (See Hall, Horatio L., assignor.)				
American Stopper Company. (See Lindemeyr, Philip, assignor.)				
American Type Founders' Company. (See MacDonall, Angus, assignor.)				
American Type Founders' Company. (See Phinney, Joseph W., assignor.)				
American Writing Machine Company. (See McCarthy, John, assignor.)				
Ames, Joshua F., Rockland, Mass. Lasting-tack	31,841	Nov. 14	89	1335
Amsden, Frank F., Malone, N. Y. Shoulder-garment	30,867	May 23	87	1391
Anderson, Charles G., Ogden, Utah. Member for cutting and adjusting tools	31,788	Nov. 7	89	1131
Anderson, Edward, March, S. D. Fencing-tool	31,282	July 25	88	710
Anderson, Eugene S., Buffalo, N. Y. Badge or similar article	30,386	Mar. 28	86	2155
Anderson, Jefferson D., Blue Mountain, Miss. Ice-cream mold	31,256	July 18	88	538
Anderson, Vance J., Bethel, Ohio. Necktie-holder	31,774	Oct. 31	89	914
Andreen, Elof, Osage City, Kans. Hanging shelf	30,064	Jan. 24	86	625
Andrews, Herbert L., Chicago, Ill. Fabric	30,166	Feb. 7	86	991
Arnett, William D., Parma, Idaho. Knife	31,965	Dec. 12	89	2251
Arnold, Collins, Albany, N. Y. Abdominal band	30,458	Apr. 4	87	166
Arnold, Harry B., New Britain, Conn. Lantern-bracket	31,280	July 25	88	709
Arnold, John L., *et al.* (See Paar, Henry, assignor.)				
Arnold, Owen P., assignor to Russell & Erwin Manufacturing Company, New Britain, Conn. Lock-case	31,583	Oct. 3	89	180
Arnold, William B., Abington, Mass. Heel end	31,567	Sept. 26	88	2407
Ascher, Otto K., Ann Arbor, Mich. Casing for flush-tanks	31,009	June 13	87	1951
Ashworth, William. (See Meats and Ashworth.)				
Astarita, Raffaello, assignor to Sondheim & Magnus, New York, N. Y. Pillow-top	31,702	Oct. 17	89	515
Astarita, Raffaello, assignor to Sondheim & Magnus, New York, N. Y. Pillow-top	31,703	Oct. 17	89	515

Alphabetical list of patentees of designs—Continued.

Name, residence, and design.	No.	Date.	Official Gazette. Vol.	Page.
Astarita, Raffaello, assignor to Sondheim & Magnus, New York, N. Y. Pillow-top	31,766	Oct. 31	89	912
Astarita, Raffaello, assignor to Sondheim & Magnus, New York, N. Y. Pillow-top	31,767	Oct. 31	89	912
Astarita, Raffaello, assignor to Sondheim & Magnus, New York, N. Y. Pillow-top	31,768	Oct. 31	89	912
Astarita, Raffaello, assignor to Sondheim & Magnus, New York, N. Y. Pillow-top	31,909	Nov. 28	89	1855
Atkins, James O., Long Island, Kans. Rein-support	31,643	Oct. 10	89	345
Atkinson, Samuel A., *et al.*, executors. (See Prickett, Edward L.)				
Atwood, William H., New Haven, Conn. Automobile-body	31,690	Oct. 17	89	513
Auerbach, Leopold, New York, N. Y. Box	31,585	Oct. 3	89	180
Austin, Henry F., Sheldon, Vt. Staple-puller and wire-stretcher	30,322	Mar. 7	86	1629
Avery, Percy C., assignor to Schumacher Acetylite Lamp Company, Chicago, Ill. Lamp-body	30,941	June 6	87	1771
Ayers & Co., Charles. (See Cook, Thomas W. G., assignor.)				
Ayres, Edward F., and T. H. Foster, Danbury, Conn. Heel-plate for rubber heels	31,701	Oct. 17	89	515
Babcock, Alfred P., New York, N. Y. Glass bottle	31,780	Nov. 7	89	1130
Babinski, August, Independence, Wis. Grate for oil or lamp stoves	30,857	May 23	87	1389
Bach, Frank. (See Green, George B., assignor.)				
Bachtel, Lewis M., *et al.* (See Best, Clearmont V., assignor.)				
Backof, William C., Chicago, Ill. Coin-controlled electric-machine case	31,839	Nov. 14	89	1335
Bacon, Earle C., New York, N. Y. Rock-crusher frame	31,790	Nov. 7	89	1132
Badgley, Robert T., New Rochelle, N. Y. Horseshoe-pad	30,482	Apr. 4	87	170
Bagnall, Joseph, assignor to A. H. Bliss, North Attleborough, Mass. Necklace and watch-chain	31,544	Sept. 26	88	2402
Bailey, Charles A., assignor to J. & E. Stevens Company, Cromwell, Conn. Money-box	31,275	July 25	88	709
Bailey, Charles J., Newton, Mass. Overshoe	31,217	July 11	88	381
Bailey, Charles W., Philadelphia, Pa. Badge	31,114	July 4	88	177
Bailey, Joseph T., Philadelphia, Pa. Badge	30,260	Feb. 28	86	1487
Bailey, Joseph T., Philadelphia, Pa. Badge	30,517	Apr. 11	87	348
Bailey, Joseph T., Philadelphia, Pa. Badge	30,931	June 6	87	1769
Baird, Herbert W., assignor of one-half to A. W. Mayers, Cleveland, Ohio. Advertising-frame	30,493	Apr. 4	87	171
Baitinger, Louis P., and T. H. Berkley, St. Louis, Mo.; said Berkley assignor of one-sixth to said Baitinger. Hinge member	31,084	June 27	87	2311
Baker, Henry H., Jr., assignor to W. H. Penseyres and C. Haberer, Buffalo, N. Y. Bicycle-frame	30,970	June 6	87	1776
Baker, Joseph A., Chicago, Ill. Lawn-mower wheel	31,944	Dec. 5	89	2059
Baker, William H., Central Falls, R. I., and F. E. Kip, Montclair, N. J. Drop for use in electrical warp stop-motions	30,057	Jan. 24	86	624
Baker, William H., Central Falls, R. I., and F. E. Kip, Montclair, N. J. Terminal for electric circuits	30,207	Feb. 14	86	1162
Baker, William H., Central Falls, R. I., and F. E. Kip, Montclair, N. J. Cop-tube	31,636	Oct. 10	89	344
Baldwin, Henry S., Hartford, Conn. Motor-casing for vehicles	30,968	June 6	87	1776
Ball and Socket Fastener Company (See Richardson, William S., assignor.)				
Ball, Devillo, Laona, N. Y. Wrench	31,361	Aug. 8	88	1146
Balogh, Otto, assignor of one-half to A. Margolis, Chicago, Ill. Stool	31,759	Oct. 31	89	911
Baltzell, Frank. (See Delany, Paul, assignor.)				
Bangley, Joseph L., assignor of one-half to H. Smith, Norfolk, Va. Printing-device frame for paper-roll holders	30,423	Mar. 28	86	2161
Barber, Amzi L. (See Stanley, Francis E. and F. O., assignors.)				
Barbour, William H., assignor to E. G. and F. H. Webster, New York, N. Y. Match-box or similar article	31,401	Aug. 15	88	1324
Bardwell, Charles E., Holyoke, Mass. Bowl	31,737	Oct. 31	89	907
Barker, Patrick H., assignor of one-half to A. Heine, Chicago, Ill. Bicycle-hub	30,116	Jan. 31	86	792
Barkley, Robert J., Chanute, Kans. Egg-carton filler	30,088	Jan. 31	86	787
Barnard, James E. (See Whitcomb and Barnard.)				
Barnes, George A., assignor to Whitman & Barnes Manufacturing Company, Akron, Ohio. Golf-ball	29,949	Jan. 3	86	176
Barnes, John S., Detroit, Mich. Advertising cigar-box opener	31,812	Nov. 7	89	1135
Barnet, Matilda E., Philadelphia, Pa. Massage-tool	30,230	Feb. 21	86	1314
Barnett, Oscar, Jr., assignor to S. B. Barnett, executrix, Newark, N. J. Cope or drag for molders' flasks	30,196	Feb. 14	86	1160
Barnett, Sarah B., executrix. (See Barnett, Oscar, Jr., assignor.)				
Barney, Henry E., Dean, Ohio. Water-mixing stand for cream-separators	31,640	Oct. 10	89	344
Barney & Smith Car Company. (See Horne, James H., assignor.)				
Barney & Smith Car Company. (See Kittredge, Arthur M., assignor.)				
Barney, Susan E., New York, N. Y. Match-safe	31,741	Oct. 31	89	908
Barnhart, Grant, Cleveland, Ohio. Salt and pepper cruet	29,966	Jan. 10	86	333
Barr, Jacob N., Milwaukee, Wis. Locomotive-headlight	30,146	Feb. 7	86	988
Barrett, James, Boston, Mass. Sewer-trap	31,637	Oct. 10	89	344
Barrett, Nancy G. (See Lytle, Albert E., assignor.)				
Barrows, Walter A., Chicago, Ill. Gas-lamp	30,447	Mar. 28	86	2165
Bartlett, Ida M., Chicago, Ill. Bicycle-pedal rubber member	30,915	May 30	87	1599
Bartley, Stewart B., Shawnee, Tenn. Agitator-staff for washing-machines	31,718	Oct. 24	89	699
Bates, Adelmer M., Chicago, Ill. Bag or sack	31,266	July 18	88	540
Bates, Adelmer M., Chicago, Ill. Bag or sack	31,267	July 18	88	540
Bates, Adelmer M., Chicago, Ill. Bag or sack	31,268	July 18	88	540
Bauchle, Thomas H., *et al.* (See Smylie, Charles A., assignor.)				
Baumgardner, Daniel H., Brookville, Pa. Hoe	31,633	Oct. 10	89	343
Baumgarten, Albert, Freeport, Ill. Base for nut-crackers	30,227	Feb. 21	86	1314
Baumgarten, Albert, Freeport, Ill. Nut-pick holder	30,392	Mar. 28	86	2156
Baumgarten, Albert, Freeport, Ill. Lemon-squeezer frame	31,934	Dec. 5	89	2058
Baumgarten, William, Baltimore, Md. Button or similar article	31,061	June 27	87	2308
Bawo, Carl W. F., *et al.* (See Otto, Gustav, assignor.)				
Bawo, Francis H., *et al.* (See Otto, Gustav, assignor.)				
Beall, William L., assignor to Gale Manufacturing Company, Albion, Mich. Cultivator-frame	30,680	May 2	87	881
Beall, William L., assignor to Gale Manufacturing Company, Albion, Mich. Reversible cutting edge for plows	31,864	Nov. 21	89	1660
Bean, John C., Lexington, assignor to C. M. Martin, Boston, Mass. Advertising-medal	30,516	Apr. 11	87	348
Beard, Charles M., Elroy, assignor of one-half to M. R. Davenport, Baraboo, Wis. Lacing-stud	30,078	Jan. 31	86	785
Beattie, Herbert W., Quincy, Mass., assignor to Sill Stove Works, Rochester, N. Y. Upper shelf-section for stoves or ranges	31,693	Oct. 17	89	513
Beattie, Herbert W., Quincy, Mass., assignor to Sill Stove Works, Rochester, N. Y. Stove or range	31,694	Oct. 17	89	513
Beberdick, Frank W., West Hoboken, N. J. Coat-pattern	30,212	Feb. 14	86	1163
Beberdick, Frank W., West Hoboken, N. J. Coat-pattern	30,213	Feb. 14	86	1163
Beberdick, Frank W., West Hoboken, N. J. Coat-pattern	30,214	Feb. 14	86	1163
Beberdick, Frank W., West Hoboken, N. J. Coat-pattern	30,215	Feb. 14	86	1164
Beberdick, Frank W., West Hoboken, N. J. Coat-pattern	30,216	Feb. 14	86	1164
Beberdick, Frank W., West Hoboken, N. J. Coat-pattern	30,217	Feb. 14	86	1164
Beberdick, Frank W., West Hoboken, N. J. Coat-pattern	30,218	Feb. 14	86	1164
Beberdick, Frank W., West Hoboken, N. J. Coat-pattern	30,219	Feb. 14	86	1164

Alphabetical list of patentees of designs—Continued.

Name, residence, and design.	No.	Date.	Official Gazette. Vol.	Page.
Beberdick, Frank W., West Hoboken, N. J. Coat-pattern	30,220	Feb. 14	86	1165
Beberdick, Frank W., West Hoboken, N. J. Vest-pattern	30,221	Feb. 14	86	1165
Beberdick, Frank W., West Hoboken, N. J. Pattern for bicycle-trousers	30,222	Feb. 14	86	1165
Beberdick, Frank W., West Hoboken, N. J. Pattern for trousers	30,223	Feb. 14	86	1165
Beberdick, Frank W., West Hoboken, N. J. Pattern for trousers	30,224	Feb. 14	86	1165
Beberdick, Frank W., West Hoboken, N. J. Coat-pattern	30,259	Feb. 21	86	1319
Beberdick, Frank W., West Hoboken, N. J. Vest-pattern	30,297	Feb. 28	86	1492
Beberdick, Frank W., West Hoboken, N. J. Vest-pattern	30,298	Feb. 28	86	1493
Beberdick, Frank W., West Hoboken, N. J. Vest-pattern	30,299	Feb. 28	86	1493
Beckwith, Arthur K., assignor to F. E. Lee, Dowagiac, Mich. Cooking stove or range	31,200	July 11	88	378
Beckwith, Arthur K., assignor to F. E. Lee, Dowagiac, Mich. Heating-stove	31,201	July 11	88	378
Beckwith, Arthur K., assignor to F. E. Lee, Dowagiac, Mich. Heating-stove	31,202	July 11	88	378
Becton, Max W., New York, N. Y. Display-box	30,427	Mar. 28	86	2161
Bedford, George P., New York, N. Y. Clock-case	30,772	May 16	87	1219
Behrens, August, Grand Rapids, Mich. Hinge	30,022	Jan. 17	86	481
Beiswanger, John, New York, N. Y. Glass chimney	29,969	Jan. 10	86	334
Bell, Enos T. (See Forsyth and Bell.)				
Bell, George H. (See Lemaire, Timothy, assignor.)				
Bell, Roscoe R., *et al.* (See Kent, William J., assignor.)				
Benensohn, Sigmund, Yorkville, Ill. Charm	31,427	Aug. 22	88	1517
Bens, William. (See Crees and Court, assignors.)				
Bennett, Dana W., Somerville, Mass. Advertising-card	31,952	Dec. 5	89	2061
Bennett, Noah W., Quincy, Mich. Trace-carrier frame	30,277	Feb. 28	86	1490
Bentzinger, George C., St. Louis, Mo. Brush	30,616	Apr. 25	87	686
Berglund, Nils, assignor to M. E. Johnson, executrix, Fitchburg, Mass. Bicycle fork-crown	30,450	Mar. 28	86	2165
Berkley, Thomas H. (See Baitinger and Berkley.)				
Bernheimer, Adolph L., New York, N. Y. Woven fabric	31,662	Oct. 10	89	348
Bernstein, Henry, assignor to Bernstein, Kaufman & Co., Philadelphia, Pa. Braid	31,846	Nov. 14	89	1335
Bernstein, Kaufman & Co. (See Bernstein, Henry, assignor.)				
Berry, George C., N. R. Steiner, and L. S. Myler, Akron, Ohio. Button-badge	30,167	Feb. 14	86	1155
Berry, James H., Houston, Tex. Boomerang	31,877	Nov. 21	89	1662
Bertram, William L. (See Cope and Bertram.)				
Best, Clearmont V., assignor of two-thirds to J. G. Best and L. M. Bachtel, Canton, Ohio. Vapor-burner frame	31,407	Aug. 15	88	1325
Best, Jay G., *et al.* (See Best, Clearmont V., assignor.)				
Betsner, John A., *et al.* (See Fleming and Lyon, assignors.)				
Bettendorf, William P., Davenport, Iowa. Center sill for cars	30,635	Apr. 25	87	688
Betts, Edgar K., Lansingburg, assignor to Earl & Wilson, Troy, N. Y. Display-card for shirts	30,513	Apr. 4	87	175
Bevin, Abner A., East Hampton, Conn. Bell	31,584	Oct. 3	89	180
Bierman, Adolph, New York, N. Y. Imitation fur trimming	30,127	Jan. 31	86	793
Bierman, Adolph, New York, N. Y. Fabric	30,258	Feb. 21	86	1319
Bigelow Carpet Company. (See Elliot, William A., assignor.)				
Bigelow Carpet Company. (See Greig, Andrew G., assignor.)				
Bigelow Carpet Company. (See Merry, John, assignor.)				
Bigelow Carpet Company. (See Spring, John, assignor.)				
Bilhoefer, Frederick F., New York, N. Y. Stool	31,697	Oct. 17	89	514
Bingeman, Charles W. (See Frank, George W., assignor.)				
Bingeman, Charles W., Buffalo, N. Y. Badge or similar article	30,556	Apr. 18	87	502
Bingham, Harriet E., Batavia, N. Y. Hair-drier	30,229	Feb. 21	86	1314
Bippart, Achill, Newark, N. J. Safety-pin	30,390	Mar. 28	86	2156
Bippart & Co. (See Uhry, Charles L., assignor.)				
Birch, George A., Rensselaer, N. Y. Cutting-point for ice-plows	32,016	Dec. 19	89	2455
Bittman, Frederic W., St. Louis, Mo. Sight-feed cylinder-lubricator	30,593	Apr. 18	87	508
Bjon, Louis J. (See Schmitt, Julius E., assignor.)				
Blackmore, Joseph J., Jersey City, N. J. Radiator	31,809	Nov. 7	89	1135
Blair, George W., Pittsburg, Pa. Box	30,563	Apr. 18	87	503
Blake, Carlostin, Ida Grove, Iowa. Clothes-washer	30,575	Apr. 18	87	506
Blakeslee, Russell C., Torrington, Conn. Bobbin-holder and thread-catcher	29,965	Jan. 10	86	333
Blaurock, John A., New York, N. Y. Wheel-tire	30,583	Apr. 18	87	507
Blaurock, John A., New York, N. Y. Wheel-tire	30,823	May 16	87	1227
Bliss, Anthony H. (See Bagnall, Joseph, assignor.)				
Bliss, Rosa A., Omaha, Nebr. Hat-supporting band	30,327	Mar. 7	86	1630
Blood, Maurice E., Kalamazoo, Mich. Bicycle-frame	31,051	June 20	87	2111
Blumenthal, Sidney, New York, N. Y. Pile fabric	30,749	May 9	87	1068
Blumenthal, Sidney, New York, N. Y. Pile fabric	30,750	May 9	87	1068
Bly, Theron H., Minneapolis, Minn. Speculum member	31,278	July 25	88	709
Blye, Harry C. (See Koch, Gustave, assignor.)				
Blyth, Alexander P., assignor to John Somerville & Company, Limited, Leith, Scotland. Bottle	30,877	May 30	87	1594
Boal, Stanhope, Piqua, Ohio. Stove or range	30,188	Feb. 14	86	1159
Boal, Stanhope, Piqua, Ohio. Heater	31,833	Nov. 14	89	1334
Boddie, James H., Sumpter, La. Fence-post	30,913	May 30	87	1599
Bodmer, Edward W., Harrisburg, Pa. Indicator	30,019	Jan. 17	86	481
Boesel, Jacob, Cleveland, Ohio. Ironing-board	30,286	Feb. 28	86	1491
Bogaert, Victor, Lexington, Ky. Spoon	31,779	Nov. 7	89	1130
Boggs, Mason. (See Crigler, Henry, assignor.)				
Bohner, George, Chicago, Ill. Lamp-fixture	30,903	May 30	87	1597
Bohr, Nicholas C., Syracuse, N. Y. Shoe	31,914	Nov. 28	89	1856
Bolton, Orrin B., Grand Rapids, Mich. Patch for saws	31,716	Oct. 24	89	699
Booker, Louis F., Philadelphia, Pa. Rubber scraping-knife	30,404	Mar. 28	86	2158
Boomer, Leroy F., Cleveland, Ohio. Hemmed fabric	30,126	Jan. 31	86	793
Boote, Edward, East Orange, N. J. Plate or similar article	31,621	Oct. 10	89	341
Borchardt, Samuel, New York, N. Y. Sole	30,352	Mar. 14	86	1800
Bothwell, Henry C., McArthur, Ohio. Broom-rack	31,823	Nov. 14	89	1332
Bott, Joseph, *et al.* (See Longman, Albertus A., assignor.)				
Bott, William, *et al.* (See Longman, Albertus A., assignor.)				
Bott, William, Columbus, Ohio. Game-board	30,467	Apr. 4	87	167
Bourgeois, Marcillien, Thibodaux, La. Weed-cutter	29,975	Jan. 10	86	335
Bouton, De Witt C., Ithaca, N. Y. Doll	31,663	Oct. 17	89	509
Bowie & Terhune. (See Cope and Bertram, assignors.)				
Boyajian, Nisham M., New York, N. Y. Hair-holder	30,461	Apr. 4	87	166
Boyd, William T., Pittsburg, Pa. Box-blank	30,706	May 2	87	885
Boyer, Edward C. (See Radford and Boyer.)				
Boysen, Frank A., Webster City, Iowa. Membership-chain	31,063	June 27	87	2308
Bradbury, Robert F., Washington, D. C. Plate for button-shields	30,364	Mar. 21	86	1974
Bradley, Benjamin C., Alliance, Ohio. Tray	30,435	Mar. 28	86	2163

Alphabetical list of patentees of designs—Continued.

Name, residence, and design.	No.	Date.	Official Gazette. Vol.	Page.
Bradley, James E., Bethany, assignor to J. V. Rakestraw, Kansas City, Mo. Sprayer attachment for washing-machines	30,799	May 16	87	1223
Bradley, Joseph H., Philadelphia, Pa. Envelop-blank	31,391	Aug. 15	88	1322
Bradley, Thomas J. (See Hills, Louis C., assignor.)				
Bragdon, William B., Cumberland Mills, Me., assignor to S. D. Warren & Co., Boston, Mass. Electrical terminal	31,316	Aug. 1	88	939
Braine, Bancroft G., New York, N. Y., assignor to Continuous Rail Joint Company of America, of New Jersey. Girder connection for girder-rails in street-railways	30,419	Mar. 28	86	2160
Branagan, William, Oswego, N. Y. Ash-sifter	30,737	May 9	87	1066
Brasfield, W. J., *et al.* (See Templeton, William G., assignor.)				
Braun, Peter J., Milwaukee, Wis. Glove-blank	31,658	Oct. 10	89	347
Breitenbach, William C., Philadelphia, Pa. Game-board	30,395	Mar. 28	86	2156
Breitenbach, William C., Philadelphia, Pa. Game or puzzle board	31,295	July 25	88	712
Breker, John C. (See Graf, Martin T., assignor.)				
Bremer, Godfrey J., Kalamazoo, Mich. Check	30,872	May 30	87	1593
Brewer, Harrison G., Washington, D. C. Badge	31,058	June 27	87	2307
Brewer, Harrison G., Washington, D. C. Badge	31,059	June 27	87	2308
Bricker & Co., J. R. (See Snavely, Samuel, assignor.)				
Bridgeport Brass Company. (See Rhind, Frank, assignor.)				
Briggs, Franz S., Neosho, Mo. Ax-rack	30,492	Apr. 4	87	171
Briggs, Hewitt F., North Baltimore, Ohio, and W. B. Brown, Baltimore, Md. Check-valve	31,441	Aug. 22	88	1519
Briggs, Jennie L., Taunton, Mass. Shirt-waist fastener	31,431	Aug. 22	88	1517
Brill, John A. (See Adams, Walter S., assignor.)				
Bristol Brass and Clock Company. (See Large, Samuel J., assignor.)				
Bristol, William H., Hoboken, N. J. Case for recording-gages	30,194	Feb. 14	86	1160
Broas, John W., Albion, Mich. Wrench-jaw	31,486	Sept. 5	88	1891
Brooke, Isaac, Pottstown, Pa. Stove	30,639	Apr. 25	87	689
Brooks, Chapin C., Wilton, Me. Scythe	31,153	July 4	88	183
Brooks, James W., *et al.*, trustees. (See Mayo, Benjamin F., assignor.)				
Brooks, Jesse W., Church Hill, Tex. Fence-post	30,959	June 6	87	1774
Brooks, John, *et al.*, trustees. (See Mayo, Benjamin F., assignor.)				
Broome, Lewis H., Jersey City, N. J. Bottle-stopper plug	31,233	July 18	88	534
Brown, Charles W., Franklin, Pa. Ice-creeper	31,421	Aug. 15	88	1327
Brown, Edgar W., Dayton, Ohio. Air-deflector for electric fans	31,899	Nov. 28	89	1853
Brown, Edgar W., Dayton, Ohio. Air-deflector for electric fans	31,900	Nov. 28	89	1853
Brown, James, Pawtucket, R. I. Thread-guide	29,923	Jan. 3	86	171
Brown, James E., Mansfield, Ohio. Casing for steam-boilers	31,328	Aug. 1	88	941
Brown, James G., Cleveland, Ohio. Prism-plate	31,811	Nov. 7	89	1135
Brown, James H., Paris, Ill. Cover for vessels	30,762	May 16	87	1218
Brown, James W., Shady Grove, Tex. Plow-handle	31,596	Oct. 3	89	182
Brown, John W., Jr., Philadelphia, Pa. Meat-chopper feed-screw	31,310	Aug. 1	88	938
Brown, M. F. (See Camp, David C., assignor.)				
Brown, William B. (See Briggs and Brown.)				
Browne, Arthur W., New York, N. Y., assignor to S. S. White Dental Manufacturing Company, Philadelphia, Pa. Fountain spittoon-bowl	30,744	May 9	87	1067
Brownell & Company. (See Metcalf, Richard, assignor.)				
Brownell, William W., Lake Placid, N. Y. Tool	30,786	May 16	87	1221
Brownlie, George. (See Wilson and Brownlie.)				
Bruce, Thomas J., Mayburg, Pa. Picture-hanger	30,179	Feb. 14	86	1157
Brummeler, Alfred J., Grand Rapids, Mich. Sprayer-body	31,144	July 4	88	182
Bryant Electric Company. (See Bryant, Waldo C., assignor.)				
Bryant, Florence E., Adams, Mass. Basin-stand	30,424	Mar. 28	86	2161
Bryant, Waldo C., assignor to Bryant Electric Company, Bridgeport, Conn. Electric contact-button	31,147	July 4	88	182
Buchheit, Charles J., and E. C. Loveridge, Buffalo, N. Y. Badge	29,957	Jan. 10	86	332
Buckeye Cream Separator Company. (See Dulmage, Arthur E., assignor.)				
Buel, Albert W., *et al.* (See Hough, David L., assignor.)				
Buffington, Alvin L., Minneapolis, Minn. Lamp-body	31,856	Nov. 21	89	1658
Buffington, Leroy S., Minneapolis, Minn. Lamp-body	30,082	Jan. 31	86	786
Buffington, Leroy S., Minneapolis, Minn. Light-fount	30,083	Jan. 31	86	786
Buffington, Leroy S., Minneapolis, Minn. Lamp-body	30,332	Mar. 14	86	1769
Bull, Norris, Rochester, N. Y. Closure for photographic-plate holders	31,814	Nov. 7	89	1136
Bullock, Edwin B., Attleborough, Mass. Garter	31,483	Aug. 29	88	1699
Bunting, Samuel A., Asbury Park, N. J. Dipper	31,463	Aug. 29	88	1695
Burdick, Bainbridge W., Albany, N. Y. Dovetail shell	30,778	May 16	87	1220
Burdick, Bainbridge W., Albany, N. Y. Hinge-pivot shell	30,779	May 16	87	1220
Burdick, Bainbridge W., Albany, N. Y. Screw-shell	30,780	May 16	87	1220
Burdick, Bainbridge W., Albany, N. Y. Swing-cover-catch shell	30,781	May 16	87	1221
Burdick, Bainbridge W., Albany, N. Y. Grate-hook shell	31,903	Nov. 28	89	1854
Burdick, Bainbridge W., Albany, N. Y. Plate lifting-bar shell	31,904	Nov. 28	89	1854
Burger, Franz. (See Williams Henry M., assignor.)				
Burgess, Charles M., assignor to Russell & Erwin Manufacturing Company, New Britain, Conn. Door-check frame	30,691	May 2	87	883
Burgess, Charles M., assignor to Russell & Erwin Manufacturing Company, New Britain, Conn. Door-check frame	30,692	May 2	87	883
Burley, Frank E., Chicago, Ill. Oyster-plate	31,886	Nov. 28	89	1851
Burnham, Franklin P., assignor to Miami Cycle and Manufacturing Company, Middletown, Ohio. Rear fork for bicycles	30,914	May 30	87	1599
Burnham, Franklin P., and J. D. Alsup, Middletown, Ohio. Bicycle crank-hanger	31,098	June 27	87	2313
Burrowes, Edward T., Portland, Me. Curtain	29,953	Jan. 3	86	176
Burrowes, Edward T., Portland, Me. Curtain	29,954	Jan. 3	86	177
Burrowes, Edward T., Portland, Me. Buffer	30,056	Jan. 24	86	624
Burt, William, Paris, Canada. Truss-pad	30,861	May 23	87	1390
Busch, Edward H., Cincinnati, Ohio. Truss-hoop	30,094	Jan. 31	86	788
Buschner, Carl F., New York, N. Y. Skirt-binding	31,108	June 27	87	2315
Buschner, Carl F., New York, N. Y. Skirt-binding	31,109	June 27	87	2315
Bush, Hiram T., Detroit, Mich. Hinge	31,488	Sept. 5	88	1891
Butcher, Fred, assignor to Inventors' Manufacturing Association, St. Louis, Mo. Base for hydrocarbon-burners	31,834	Nov. 14	89	1334
Buttler, William, Redkey, Ind. Lamp-chimney	30,250	Feb. 21	86	1318
Byrne, Richard A., Philadelphia, Pa. Blank for envelops	30,943	June 6	87	1771
Byrnes, William E., Cleveland, Ohio. Rubber elbow	29,983	Jan. 10	86	336
C. C. Riotte Company. (See Riotte, Carl C., assignor.)				
C. Rogers & Bros. of Meriden, Conn. (See Rogers, Arthur G., assignor.)				
C. S. Norris & Company. (See Schilling, Frank, assignor.)				
Cabana, Oliver, Jr., Buffalo, N. Y. Supporting member for bath-seats	31,288	July 25	88	711

Alphabetical list of patentees of designs—Continued.

Name, residence, and design.	No.	Date.	Official Gazette. Vol.	Page.
Caesar, Julius, New York, N. Y. Sign character	31,262	July 18	88	539
Cairns, William, Chicago, Ill. Rear bracket for bicycles	30,822	May 16	87	1227
Calahan, John H., Philadelphia, Pa. Valve-disk	29,982	Jan. 10	86	336
Caldwell & Co., J. E. (See Van Roden, George C., assignor.)				
Caldwell, Frank G., Wheeling, W. Va. Clamp for sheet-metal roofing-plates	30,630	Apr. 25	87	688
Caldwell, Frank G., Wheeling, W. Va. Calmp for sheet-metal roofing-plates	31,086	June 27	87	2311
Callaway, William J., Gorin, Mo. Building strut or column	30,549	Apr. 11	87	353
Callis, Arthur A., Woodlawn, Mo. Bridle-bit	31,306	Aug. 1	88	937
Cameron, Julia E. (See Coryell, Edwin M., assignor.)				
Camp, David C., Milledgeville, Ga., assignor of one-half to M. F. Brown, Kansas City, Mo. Cream-separator	31,254	July 18	88	538
Camp, George E., assignor to Foster Brothers Manufacturing Company, Utica, N. Y. Mattress-frame	30,326	Mar. 7	86	1630
Camp, Horace B., Akron, Ohio. Building-block	30,550	Apr. 11	87	353
Campbell, Ernest W., assignor to W. H. Manchester, Providence, R. I. Handle for spoons or similar articles	31,223	July 18	88	532
Canton Foundry Machine Company. (See Pfouts, Leroy S., assignor.)				
Carraine, Eugene, Philadelphia, Pa. Border for photographic mats or mounts	31,393	Aug. 15	88	1323
Carroll, Samuel C., Dallas, Tex. Nut-lock washer	31,714	Oct. 24	89	698
Carter, James N., McKinney, Tex. Clothes-spring	31,972	Dec. 12	89	2252
Carter's Ink Company. (See Hopkins, Robert G., assignor.)				
Cary Manufacturing Company. (See Vermilya, Allen G. N., assignor.)				
Cary, Spencer C., New York, N. Y. Hinge-link	31,188	July 11	88	376
Case, Henry M., assignor of one-half to S. M. Lawrence, Phelps, N. Y. Can-bottom	31,399	Aug. 15	88	1324
Casey, John, and M. S. Chism, Philadelphia, Pa. Eyeglass-case	30,456	Apr. 4	87	165
Celluloid Company. (See Lefferts, Marshall C., assignor.)				
Celluloid Company. (See Miller, Horace E., assignor.)				
Century Machine Company. (See Myers, Lewis C., assignor.)				
Chandlee, Horace C., Washington, D. C. Match-safe	30,881	May 30	87	1594
Chapman, Harry A. (See Goodwin, Frank D., assignor.)				
Chapman, Leo M., and J. M. Gelatt, Louisville, Ky. Nut-lock washer	30,955	June 6	87	1773
Charles Scott Spring Company. (See Robertson, John H., assignor.)				
Charpiot, John B., Houston, Tex. Hatchet or ax head	30,736	May 9	87	1066
Cheney Brothers. (See Johnstone, Helen P., assignor.)				
Cheney Brothers. (See Olson, Anna, assignor.)				
Chicago Last and Die Company. (See Decker, Fillmore, assignor.)				
Chickering, Kenton, Oil City, Pa. Base for pumping power	30,698	May 2	87	884
Childs, Eugene, Boston, Mass., assignor to Trimont Manufacturing Company, Boston, Mass., and Portland, Me. Die for forging bodies of rotary trimmer-cutters	30,677	May 2	87	880
Childs, Eugene, Boston, Mass., assignor to Trimont Manufacturing Company, Boston, Mass., and Portland, Me. Rotary-trimmer-cutter body	30,678	May 2	87	880
Chism, Murray S. (See Casey and Chism.)				
Chollar, Byron E., St. Louis, Mo. Gas-purifier	31,754	Oct. 31	89	910
Chouffet, Charles F., and E. J. Isley, Buffalo, N. Y. Clock-frame	31,920	Dec. 5	89	2055
Christ, Frank E. (See McDonner, Charley, assignor.)				
Christensen, Carl. (See Jess and Christensen.)				
Christesen, Rudolphe W. E., New Britain, Conn. Gong for bells	30,429	Mar. 28	86	2162
Christesen, Rudolphe W. E., New Britain, Conn. Gong for bells	30,430	Mar. 28	86	2161
Christian Woman's Board of Missions. (See Craig, Laura G., assignor.)				
Christman, Augustus G., Reading, Pa. Agitator for washing-machines	31,154	July 4	88	183
Christy, Thomas J., assignor of one-half to J. C. Kleiber and J. M. Loeblein, St. Louis, Mo. Generator for vapor-lamps	30,726	May 9	87	1064
Clancy, Cecilia C., Chicago, Ill. Sewing-thimble	31,520	Sept. 19	88	2233
Clark, Charles T., Philadelphia, Pa. Necktie holder and fastener	30,611	Apr. 25	87	685
Clark, Emri W., Nashua, N. H. Snow-guard for roofs	30,788	May 16	87	1222
Clark, Thomas B., Honesdale, Pa. Cut-glass vessel	30,086	Jan. 31	86	786
Clark, William F., San Francisco, Cal. Label	31,379	Aug. 8	88	1149
Clarke, James L., Chicago, Ill. Clock or watch dial	31,501	Sept. 12	88	2060
Clarkson, Richard, assignor to B. L. Williams, Philadelphia, Pa. Buttonhole-opener and buttoner	31,433	Aug. 22	88	1518
Claude, Auguste P., Canton, Ohio. Can	31,079	June 27	87	2310
Clay, Harry C., assignor to Reeves & Company, Columbus, Ind. Wheel	30,967	June 6	87	1775
Cleveland Burial Case Company. (See Coons, Harry T., assignor.)				
Cleveland Machine Screw Company. (See Sperry, Elmer A., assignor.)				
Cleveland, William B., Cleveland, Ohio. Rail-bond	31,373	Aug. 8	88	1148
Clewell, George W., Reading, Pa. Sad-iron holder	30,013	Jan. 17	86	480
Cliff, Edward, Newark, N. Y. Hose-nozzle	30,956	June 6	87	1773
Cline, J. W. R. (See Abbott, Elmer D., assignor.)				
Clough, William R., Alton, N. H. Handle for corkscrews	30,234	Feb. 21	86	1315
Clunies, Arthur B., Rochester, N. Y. Water-front for stoves or ranges	30,803	May 16	87	1224
Clunies, Arthur B., assignor to Sill Stove Works, Rochester, N. Y. Fire-pot lining-section	31,196	July 11	88	377
Clunies, Arthur B., assignor to Sill Stove Works, Rochester, N. Y. Fire-pot lining-section	31,197	July 11	88	377
Clunies, Arthur B., assignor to Sill Stove Works, Rochester, N. Y. Fire-pot lining-section	31,198	July 11	88	378
Cobb, Alphonso H., Asheville, N. C. Garment-fastening hook	31,786	Nov. 7	89	1131
Cobb, Alphonso H., Asheville, N. C. Eye member for hook-and-eye fastenings	31,787	Nov. 7	89	1131
Cochran, John A. (See Meister and Cochran.)				
Codman, William C., assignor to Gorham Manufacturing Company, Providence, R. I. Handle for spoons, forks, or similar articles	30,168	Feb. 14	86	1155
Codman, William C., assignor to Gorham Manufacturing Company. Providence, R. I. Handle for spoons, &c	31,069	June 27	87	2309
Codman, William C., assignor to Gorham Manufacturing Company, Providence, R. I. Handle for spoons, &c	31,993	Dec. 19	89	2451
Coffman, James H., Columbus, Ohio, assignor to Wisconsin Chair Company, Port Washington, Wis. Bent-wood chair-seat	31,951	Dec. 5	89	2061
Cohendos, Eugénie, Morristown, N. J. Cabinet-washstand	31,611	Oct. 3	89	184
Coldwell, Joseph, and C. G. Gildard, Fall River, Mass. Drop-bar	29,979	Jan. 10	86	335
Coldwell, Joseph, and C. G. Gildard, Fall River, Mass. Drop-bar	31,002	June 13	87	1950
Cole, Frank E., Boston, Mass. Bridge for banjos, &c	30,515	Apr. 11	87	348
Colebrookdale Iron Company. (See Sabold, Oliver W., assignor.)				
Coleman, Aaron, New York, N. Y. Suspender-end	31,728	Oct. 24	89	701
Coleman, Aaron, New York, N. Y. Suspender-end	31,773	Oct. 31	89	913
Coles, Charles H., Chicago, Ill. Calendar-block stand	31,853	Nov. 21	89	1658
Colgate, Richard M., West Orange, N. J. Box	30,412	Mar. 28	86	2159
Columbia and Electric Vehicle Company. (See Alden, Herbert W., assignor.)				
Columbia and Electric Vehicle Company. (See Maxim, Hiram P., assignor.)				
Columbia and Electric Vehicle Company. (See Maxim and Pope, assignors.)				
Columbia and Electric Vehicle Company. (See Pope, Harry M., assignor.)				
Colvin, Richard B. M., Falmouth, Ky. Harness attachment	31,041	June 20	87	2110

Alphabetical list of patentees of designs—Continued.

Name, residence, and design.	No.	Date.	Official Gazette. Vol.	Page.
Computing Scale Company. (See Ozias, Orange O., assignor.)				
Conlin, Robert E., Poughkeepsie, N. Y. Syringe-nozzle	31,465	Aug. 29	88	1696
Conn, Morris E., assignor to Acme Staple Company, Limited, Philadelphia, Pa. Female member for devices for locking forms of type, &c., in chases and frames	31,260	July 18	88	539
Conn, Morris E., assignor to Acme Staple Company, Limited, Philadelphia, Pa. Male member for devices for locking forms of type, &c., in chases and frames	31,261	July 18	88	539
Connor, Sydney S., Amite City, La. Gravity-latch	30,846	May 23	87	1387
Consolidated Car Fender Company. (See Woodworth, Albert C., assignor.)				
Consolidated Safety Pin Company. (See Farmer, George P., assignor.)				
Continuous Rail Joint Company of America. (See Braine, Bancroft G., assignor.)				
Converse, Vernon G., Pittsburg, Pa., assignor to Hemingray Glass Company, Covington, Ky. Insulator	30,637	Apr. 25	87	689
Conway, Nellie F., Buffalo, N. Y. Hat	31,915	Nov. 28	89	1856
Cook, Harry T., New York, N. Y. Button	30,713	May 9	87	1062
Cook, Thomas W. G., assignor to C. Ayers & Co., New York, N. Y. Clamp-band	31,895	Nov. 28	89	1853
Cookson, Charles W., Wilmington, assignor of one-fourth to G. F. Hirsch, Long Beach, Cal. Wrench member	31,005	June 13	87	1950
Cool, Henry R., Urbana, Ohio. Telephone-receiver cap	31,187	July 11	88	376
Coons, Harry T., assignor to Cleveland Burial Case Company, Cleveland, Ohio. Handle-plate for coffins	30,361	Mar. 21	86	1974
Coons, Owen. (See Teachout, William H., assignor.)				
Co-Operative Foundry Company. (See Kennedy and King, assignors.)				
Co-Operative Foundry Company. (See King and Kennedy, assignors.)				
Cope, George W., and W. L. Bertram, Detroit, Mich., assignors to C. E. Emrich, Columbus, Ohio. Heating-stove	30,016	Jan. 17	86	481
Cope, George W., and W. L. Bertram, Detroit, Mich., assignors to C. E. Emrich, Columbus, Ohio. Heating-stove	30,061	Jan. 24	86	625
Cope, George W., and W. L. Bertram, Detroit, Mich., assignors to Bowie & Terhune, Rome, Ga. Cooking stove or range	31,478	Aug. 29	88	1698
Cope, George W., and W. L. Bertram, assignors to F. A. Nieberding, Detroit, Mich. Stove	32,041	Dec. 26	89	2644
Cope, Henry P., Detroit, Mich., assignor to Gem City Stove Company, Dayton, Ohio. Heating-stove	30,508	Apr. 4	87	174
Copeland, Herschel P., Jersey City, N. J. Ring insulator	31,861	Nov. 21	89	1659
Corkery, David F., Cambridge, Mass. Door-hanger	30,594	Apr. 18	87	508
Cornelius, John W. (See Padfield, Harry V., assignor.)				
Cornelius, John W. (See Padfield and Cornelius.)				
Cornish, Curtis & Greene Manufacturing Company. (See Valerius, Theodore L., assignor.)				
Corscaden, Thomas, New Britain, Conn., assignor to American Pulley Company, Philadelphia, Pa. Pulley-segment	30,596	Apr. 18	87	509
Coryell, Edwin M., assignor to J. E. Cameron, New York, N. Y. Air-chamber for pumps	31,080	June 27	87	2310
Cosgrove, Thomas W., Dowagiac, Mich. Badge	31,218	July 18	88	531
Cossman, Nicholas, Great Bend, Kans. Fruit-kettle	31,589	Oct. 3	89	181
Coston, William F., New York, N. Y. Flag or banner	30,976	June 13	87	1946
Couchois, Garrett J., New York, N. Y. Whistle	31,876	Nov. 21	89	1662
Court, Charles S. (See Crees and Court.)				
Covey, Merrells E. (See Meyer, August W., assignor.)				
Cowdrick, Hiram O., Philadelphia, Pa. Book-cover	30,006	Jan. 17	86	479
Cowen, Robert, Cambridge, Mass. Elastic tire	29,988	Jan. 10	86	336
Cowles, Samuel H., Buffalo, N. Y. Scale-plate	30,470	Apr. 4	87	168
Cox, Enoch, Malta Bend, Mo. Hinge	30,895	May 30	87	1596
Cox, Wallace M., New York, assignor to S. Sanford & Sons, Amsterdam, N. Y. Carpeting	31,170	July 4	88	186
Cox, Wallace M., New York, assignor to S. Sanford & Sons, Amsterdam, N. Y. Carpeting	31,171	July 4	88	187
Cox, Wallace M., New York, assignor to S. Sanford & Sons, Amsterdam, N. Y. Carpeting	31,172	July 4	88	187
Coyle, Thomas, Apponaug, R. I. Bench-bracket	29,980	Jan. 10	86	335
Craft, Wilbur H., Buffalo, N. Y. Badge	30,644	May 2	87	875
Craig, David A. (See Stark and Craig.)				
Craig, Laura G., Buffalo, N. Y., assignor to Christian Woman's Board of Missions, Indianapolis, Ind. Badge	30,328	Mar. 14	86	1796
Cramer, Gustavus A., Pittsburg, Pa. Stick-pin or similar article	30,358	Mar. 21	86	1974
Cramer, Loren, Galva, Kans. Wrench boxing member	30,197	Feb. 14	86	1160
Crandall, Lucien S., New York, N. Y. Display-frame	30,860	May 23	87	1390
Crane, Charles M., assignor to Gilliam Manufacturing Company, Canton, Ohio. Pad-plate	30,275	Feb. 28	86	1489
Crane, Edward M., Oshkosh, Wis. Oscillating body-loop for vehicles	31,089	June 27	87	2312
Crawford, Henry N., Topisaw, Miss. Trace-hook	30,178	Feb. 14	86	1157
Crawford, William I., Sharpsville, Pa. Fruit-basket	31,931	Dec. 5	89	2057
Crawford, William I., Sharpsville, Pa. Fruit-basket	31,932	Dec. 5	89	2057
Creager, Edwin F., Lancaster, Pa. Ball retainer and separator	30,181	Feb. 14	86	1157
Creager, Edwin F., Lancaster, Pa. Ball retainer and separator	30,182	Feb. 14	86	1158
Creager, Edwin F., Lancaster, Pa. Ball retainer and separator	30,183	Feb. 14	86	1158
Crees, Eustace, and C. S. Court, assignors to Waite, Thresher Company, Providence, R. I. Handle for button-hooks, &c	30,933	June 6	87	1770
Crees, Eustace, and C. S. Court, Providence, R. I., assignors to H. H. Curtis & Co., North Attleborough, Mass. Back for brushes or similar articles	31,273	July 25	88	708
Crees, Eustace, and C. S. Court, assignors to W. Bens, Providence, R. I. Handle for button-hooks or similar articles	31,274	July 25	88	708
Crees, Eustace, and C. S. Court, Providence, R. I., assignors to G. K. Webster, North Attleborough, Mass. Handle for spoons or similar articles	31,347	Aug. 8	88	1143
Creveling, Warren S., assignor to D. T. Mallet, New York, N. Y. Lamp-body	32,001	Dec. 19	89	2403
Crider, John W. (See Muntz, Oliver H., assignor.)				
Crigler, Henry, assignor of one-half to M. Boggs, Franklin, W. Va. Clamp member	31,082	June 27	87	2311
Crocheron, Alden, Salt Lake City, Utah. Pocket for grease-cans	30,110	Jan. 31	86	791
Crompton & Knowles Loom Works. (See Wyman, Horace, assignor.)				
Crompton, Randolph, Worcester, Mass. Drop for warp-stop-motion machines	31,259	July 18	88	538
Cross, Milton L., Philadelphia, Pa. Corner-bracket for bedsteads	30,189	Feb. 14	86	1159
Crouse, Stephen, Rock Glen, Pa. Rail-joint plate	31,686	Oct. 17	89	512
Crowe, Eugene A., assignor to E. S. Higgins Carpet Company, New York, N. Y. Carpet	30,511	Apr. 4	87	174
Crowe, William J., St. Catharines, Canada. Badge	31,057	June 27	87	2307
Crowner, States R. (See Willard and Crowner.)				
Crowther, Henry, and C. Timm, Pittsburg, Pa. Bicycle-frame	30,969	June 6	87	1776
Culmer, John W., assignor to National Computing Scale Company, Cleveland, Ohio. Scale-frame	30,940	June 6	87	1771
Culmer, John W., assignor to National Computing Scale Company, Cleveland, Ohio. Scale-frame	30,986	June 13	87	1948
Culmer, John W., assignor to National Computing Scale Company, Cleveland, Ohio. Base for scales	31,855	Nov. 21	89	1658
Cumming, John F., Worcester, assignor to H. C. Hansen, Boston, Mass Font of type	30,916	May 30	87	1599
Cunningham, Margaret, Philadelphia, Pa. Necktie-holder	30,755	May 16	87	1217
Cunningham, Walter C., St. Paul, Minn. Tobacco-pipe member	30,660	May 2	87	877
Cunningham, Walter C., St. Paul, Minn. Tobacco-pipe member	30,661	May 2	87	877

Alphabetical list of patentees of designs—Continued.

Name, residence, and design.	No.	Date.	Official Gazette. Vol.	Page.
Cunay, Alexander D., assignor to O. P. Schriver & Co., Cincinnati, Ohio. Sash-balance housing	30,413	Mar. 28	86	2159
Curry, Andrew J., St. Louis, Mo. Hat-rack	30,121	Jan. 31	86	792
Curtis, Charles L., assignor, by mesne assignments, to Nordlinger-Charlton Fireworks Company, New York, N. Y. Fire-cracker body	30,658	May 2	87	877
Curtis & Co., Henry H. (See Crees and Court, assignors.)				
Cushman, Henry C. (See Grelle, Alexander W., assignor.)				
Cycle Spring Spoke Company. (See Hussey, Charles A., assignor.)				
Danu, Isaac N., New Haven, Conn. Foot-rest for children's carriages	30,191	Feb. 14	86	1159
Datz, Albert, Jersey City, N. J. Box	31,236	July 18	88	534
Davenport, Merwin R. (See Beard, Charles M., assignor.)				
Davidson, James R., Connellsville, Pa. Boiler or kettle	31,820	Nov. 14	89	1332
Davies, Benjamin, West Hoboken, N. J., assignor to L. Straus & Sons, New York, N. Y. Bowl or vessel	31,738	Oct. 31	89	907
Davis, Leonard L., Springfield, Mass. Electric-lamp bulb	30,856	May 23	87	1389
Davis, Mark, New York, N. Y. Cap	31,107	June 27	87	2314
Davis, Shepherd, South Bend, Ind. Oil-can	30,879	May 30	87	1594
Davol, Charles J., assignor to Davol Rubber Company, Providence, R. I. Syringe	31,279	July 25	88	709
Davol Rubber Company. (See Davol, Charles J., assignor.)				
Day, Elisha L., assignor of one-half to R. E. Graul, Brenham, Tex. Syringe nozzle-tip	29,972	Jan. 10	86	334
Day, William C., Rumford Falls, Me. Nutmeg-grater casing	31,437	Aug. 22	88	1518
De Moulin, Edmund and U. S., Greenville, Ill. Badge	31,618	Oct. 10	89	340
De Moulin, Ulysses S. (See De Moulin, Edmund and U. S.)				
De Puy, Revra, Warsaw, Ind. Pump-frame	30,578	Apr. 18	87	506
De Vilbiss, Thomas A., Toledo, Ohio. Member for specula	31,840	Nov. 14	89	1335
De Witt, William E., Chicago, Ill. Grip for handle-bars	31,050	June 20	87	2111
Deck, Frank J., Buffalo, N. Y. Badge	31,219	July 18	88	531
Decker, Albert. (See Gimbel and Decker.)				
Decker, Fillmore, assignor to Chicago Last and Die Company, Chicago, Ill. Hinge	30,721	May 9	87	1063
Dederick, Ezra, Milwaukee, Wis. Hook	31,578	Oct. 3	89	179
Deem, Miller M., Reading, Pa., assignor to American Saddle Company, Cleveland, Ohio. Tool-bag	31,901	Nov. 28	89	1854
Deitsch, Charles and E. J., New York, N. Y. Belt	30,921	May 30	87	1600
Deitsch, Edward J. (See Deitsch, Charles and E. J.)				
Deitsch, Edward J., New York, N. Y. Belt	30,922	May 30	87	1600
Deitsch, Edward J., New York, N. Y. Belt	30,923	May 30	87	1600
Dekay, Henry A., Jersey City, N. J. Hat-box	31,402	Aug. 15	88	1324
Delany, Paul, assignor of one-half to F. Baltzell, Montgomery, Ala. Retracker	31,443	Aug. 22	88	1519
Dennett, Fred A., Sheboygan, assignor to Wisconsin Chair Company, Port Washington, Wis. Bent-wood chair-seat	29,994	Jan. 10	86	337
Denson, Willis H., Corning, N. Y. Puzzle-box	30,073	Jan. 24	86	627
Derbyshire, William H., Chambersburg, Pa. Frame for hydraulic riveters	30,997	June 13	87	1949
Diacont, Frank J., Providence, R. I., assignor to H. H. Curtis Company, North Attleborough, Mass. Brush-back or similar article	31,705	Oct. 24	89	696
Diacont, Frank J., assignor to Waite, Thresher Company, Providence, R. I. Handle for button-hooks or similar articles	31,734	Oct. 31	89	906
Diamond, James H., Allegheny, Pa. Face-board for gas-burners	30,545	Apr. 11	87	352
Diamond, James H., Pittsburg, assignor to M. B. McClelland, Allegheny, Pa. Gas-stove	31,415	Aug. 15	88	1326
Dick, Joseph, Canton, Ohio. Fan-casing and frame for fodder-cutters	31,489	Sept. 5	88	1891
Dicker, George A., Lansingburg, N. Y. Sash-pulley case	30,055	Jan. 24	86	624
Dickinson Hard Rubber Company. (See Harris, Godfrey H., assignor.)				
Dickson, Frank T., Baltimore, Md. Window-chair	32,011	Dec. 19	89	2454
Didway, George W., New York, N. Y. Washing-block	31,682	Oct. 17	89	512
Dierdorf, John, Indianapolis, Ind. Piano-plate	31,277	July 25	88	709
Diesterweg, Louis, Chicago, Ill. Box-lid clasp	30,947	June 6	87	1772
Dilzer, Charles R. (See Lanier, Lamar B., assignor.)				
Dittmar, Elmer C. F., Williamsport, Pa., assignor to F. C. Wheeler, Boston, Mass. Toilet-case	30,460	Apr. 4	87	166
Dixon, Vienna M., Maysville, Mo. Tug-fastener	31,894	Nov. 28	89	1853
Dobbie, John, Leith, Scotland. Handle for stone-dressing tools	31,283	July 25	88	710
Dobbins, Edward T., *et al.* (See Wipf, Hermann J. D., assignor.)				
Dobson, Charles M. (See McKinney, Max, assignor.)				
Dodel, Xaver, San Francisco, Cal. Dental elevator	31,494	Sept. 5	88	1892
Doescher, Charles, Waterbury, Conn. Match-box	30,981	June 13	87	1947
Doolittle, Irvin P., Toronto, Canada, assignor of one-half to E. L. Parker and W. W. Pierce, Buffalo, N. Y. Eye	30,590	Apr. 18	87	508
Doolittle, Irvin P., Toronto, Canada, assignor of one-half to E. L. Parker and W. W. Pierce, Buffalo, N. Y. Garment-hook	30,610	Apr. 25	87	685
Dougherty, Ella F., Staunton, Va. Advertising-table	30,140	Feb. 7	86	987
Douglas, Frank, Chicago, Ill. Chain and sprocket-wheel guard for bicycles	31,866	Nov. 21	89	1660
Downey, William C., Washington, D. C. Atomizer	31,892	Nov. 28	89	1852
Downing, Walter, Keota, Iowa. Buckle-frame	31,676	Oct. 17	89	511
Downs, William H., Salem, Mass. Leather-finishing roll	30,854	May 23	87	1389
Doyle, John, Hoboken, N. J. Kite	31,724	Oct. 24	89	700
Draper Company. (See Draper, George O., assignor.)				
Draper, George O., Hopedale, Mass., assignor to Draper Company, Hopedale, Mass., and Portland, Me. Guide-chute for looms	30,371	Mar. 21	86	1975
Drennan, Charles M., Boston, Mass. Casket-cover	30,965	June 6	87	1775
Drown, Thomas P., Boston, Mass. Piece of confectionery	31,016	June 13	87	1952
Dryden, George B., Chicago, Ill. Elastic vehicle-tire	30,417	Mar. 28	86	2160
Dryfoos, Solomon. (See Lubin and Dryfoos.)				
Du Brul, Napoleon, Cincinnati, Ohio. Cigarette	31,916	Dec. 5	89	2054
Du Brul, Napoleon, Cincinnati, Ohio. Cigar	31,917	Dec. 5	89	2054
Duffner, Frank J., Allegheny, Pa. Lamp-dome	31,237	July 18	88	534
Duffy, James F., Chicago, Ill. Tack-hammer	29,984	Jan. 10	86	336
Duke, James B. (See Ross, Thomas H., assignor.)				
Dulk, Robert, New York, N. Y. Metal stock	30,670	May 2	87	879
Dulmage, Arthur E., assignor to Buckeye Cream Separator Company, Oberlin, Ohio. Water-spraying stand for creamery-cans	30,574	Apr. 18	87	505
Dulmage, Arthur E., assignor to Buckeye Cream Separator Co., Oberlin, Ohio. Cover for cans	30,672	May 2	87	879
Dunbar, Anna E., Albany, N. Y. Shirt-waist belt	30,865	May 23	87	1390
Duncan, Francis H. (See Holmberg and Duncan.)				
Durgin, George F., *et al.* (See Roberts, Frederick R., assignor.)				
Dutch, Robert B. (See Frost and Dutch.)				
Dwyer, James, and J. H. Lane, Detroit, Mich. Magazine-section for stoves	31,247	July 18	88	536
Dwyer, James, and J. H. Lane, assignors to Peninsular Stove Company, Detroit, Mich. Combustion-chamber for stoves	31,648	Oct. 10	89	346
Dyett, James H., Buffalo, N. Y. Corner-bracket for bed-frames	30,066	Jan. 24	86	626

Alphabetical list of patentees of designs—Continued.

Name, residence, and design.	No.	Date.	Official Gazette. Vol.	Page.
E. S. Higgins Carpet Company. (See Crowe, Eugene A., assignor.)				
E. & T. Fairbanks & Company. (See Pank, Christopher W., assignor.)				
Eagle Pencil Company. (See Huber, Otto, assignor.)				
Eagle Pencil Company. (See McIntyre, Frank, assignor.)				
Eagle Pencil Company. (See Oberbeck, George, assignor.)				
Earl & Wilson. (See Betts, Edgar K., assignor.)				
Earle, Horatio S., Detroit, Mich. Grass-cutting blade	30,478	Apr. 4	87	169
Earle, Horatio S., Detroit, Mich. Corn-knife	30,876	May 30	87	1594
Eaton, Andrew L., New York, N. Y. Belt-fastener plate	30,518	Apr. 11	87	348
Eaton, Andrew L., New York, N. Y. Belt-fastener plate	30,519	Apr. 11	87	348
Eaton, Andrew L., New York, N. Y. Belt-fastener plate	30,520	Apr. 11	87	348
Ebert, Caroline, and H. C. Shaw, Kansas City, Mo. Hat-fastener	30,462	Apr. 4	87	166
Eckerson, David I., assignor of one-half to J. T. and P. R. Hadsell, Worcester, N. Y. Tub	30,136	Feb. 7	86	986
Economy Gas Lamp Company. (See Williams, John F., assignor.)				
Eddy, Ulysses D., Rye, N. Y. Rack for inkstands, &c	30,359	Mar. 21	86	1974
Edgar, Butler, Sunbury, Pa. Radiator	31,046	June 20	87	2110
Edge, William C., Newark, N. J. Chain	31,221	July 18	88	532
Edward Miller & Company. (See Homan, William C., assignor.)				
Eldridge, Daniel D., Bedford, Ind. Funnel for chain-pumps	31,639	Oct. 10	89	344
Elfstrand, Clara. (See Hall, Frank, assignor.)				
Elias, Salim, New York, N. Y. Needle-book	30,385	Mar. 28	86	2155
Ellinwood, Charles O., Rye Beach, N. H. Work-holder	30,559	Apr. 18	87	502
Elliot, William A., Yonkers, N. Y., assignor to Bigelow Carpet Company, of Massachusetts. Carpet-border	31,776	Oct. 31	89	914
Elliott, Elias L., Yonkers, assignor to O. A. Mygatt, New York, N. Y. Lamp-shade	31,353	Aug. 8	88	1144
Elliott, Elias L., Yonkers, assignor to O. A. Mygatt, New York, N. Y. Lamp-shade	31,354	Aug. 8	88	1144
Elliott, Elias L., Yonkers, assignor to O. A. Mygatt, New York, N. Y. Lamp shade or globe	31,355	Aug. 8	88	1144
Elliott, Elias L., Yonkers, assignor to O. A. Mygatt, New York, N. Y. Lamp shade or globe	31,356	Aug. 8	88	1145
Elliott, Elias L., Yonkers, assignor to O. A. Mygatt, New York, N. Y. Lamp shade or globe	31,357	Aug. 8	88	1145
Elliott, Elias L., Yonkers, assignor to O. A. Mygatt, New York, N. Y. Lamp shade or globe	31,358	Aug. 8	88	1145
Elliott, Elias L., Yonkers, assignor to O. A. Mygatt, New York, N. Y. Lamp shade or globe	31,359	Aug. 8	88	1145
Ellis, Nehemiah, Windfall, Ind. Kraut-cutter	30,290	Feb. 28	86	1492
Empire Electrical Machinery Company. (See Freeman, Warren P., assignor.)				
Emrich, C. E. (See Cope and Bertram, assignors.)				
Emrick, Asa W. (See Schwerd and Emrick.)				
Engberg, Frank R., Kindred, N. D. Trace-carrier	30,484	Apr. 4	87	170
Englert, Henry R., New York, N. Y. Metallic plate	31,208	July 11	88	379
English, Henry R., Jackson, Mo. Game-standard	30,310	Mar. 7	86	1627
Enterprise Manufacturing Company of Pennsylvania. (See Hopkins, Cabel B., assignor.)				
Erskine, Wightman, Burlington, Iowa. Head for clothes-racks	31,937	Dec. 5	89	2058
Erway, Benjamin F., Rodney, Iowa. Trace-support	30,624	Apr. 25	87	687
Eschemann, William, assignor of one-third to G. W. Koch, Philadelphia, Pa. Indicator-lever for letter-scales	31,582	Oct. 3	89	179
Eschwege, Julius, New York, N. Y. Comb for personal wear	31,521	Sept. 19	88	2233
Estes, Webster C., New York, N. Y. Wooden vial	31,234	July 18	88	534
Estes, Webster C., New York, N. Y. Turned wooden box	31,997	Dec. 19	89	2452
Ettler, John A., San Antonio, Tex. Binder for plaster, &c	31,795	Nov. 7	89	1132
Euston, Alexander, St. Louis, Mo. Hydraulic-press plate	30,790	May 16	87	1222
Evans, Alfred B., Paterson, N. J. Pitcher or similar article	31,284	July 25	88	710
Evans, James F., Portland, assignor of one-half to W. Fickett, Stroudwater, Me. Billiard-bridge	29,997	Jan. 10	86	338
Evans, Thomas S., assignor to Jackes-Evans Manufacturing Company, St. Louis, Mo. Curry-comb	30,365	Mar. 21	86	1975
Evans, Thomas S., assignor to Jackes-Evans Manufacturing Company, St. Louis, Mo. Stove	31,558	Sept. 26	88	2405
Eveleth, Mattie H., Boston, Mass. Game-board	31,815	Nov. 7	89	1136
Everson, William I., Brilliant, Ohio. Hook for waistband-fastenings	30,950	June 6	87	1773
Evertsen, Henry H., assignor to Wilcox & Evertsen, Meriden, Conn. Spoon	30,715	May 9	87	1062
Evertsen, Henry H., assignor to Wilcox & Evertsen, Meriden, Conn. Handle for spoons, forks, &c	30,716	May 9	87	1062
Excelsior Stove and Manufacturing Company. (See Ohnemus, Anton, assignor.)				
Excelsior Stove and Manufacturing Company. (See Weller, Ferdinand S., assignor.)				
Faber, Lothar W., New York, N. Y. Eraser-holder	30,655	May 2	87	877
Fahrney, Josiah, Waynesborough, Pa. Straw-rack for grain-separators	30,581	Apr. 18	87	507
Fahys Watch-Case Company. (See Habensack, Ferderick, assignor.)				
Fairchild, Harry P., New York, N. Y. Pencil-case	31,118	July 4	88	178
Falls, William F., Boston, assignor of one-half to F. Greenwood, Hyde Park, Mass. Lady's work-stand	30,009	Jan. 17	86	479
Falz, Theodore A. H., Wilmerding, Pa. Earth-auger	30,847	May 23	87	1388
Fanning, John T., Chicago, Ill. Sprocket-wheel	29,948	Jan. 3	86	175
Farmer, George P., Montclair, assignor to Consolidated Safety Pin Company, Bloomfield, N. J. Paper-clip	30,946	June 6	87	1772
Farmers Loan and Trust Company, *et al.*, executors. (See Underhill, Francis M.)				
Farr, Willis M., Dowagiac, Mich. Sand-band	30,368	Mar. 21	86	1975
Farrell, Thomas J., *et al.* (See Longman, Albertus A., assignor.)				
Fauber, William H., Chicago, Ill. Fork-tube for bicycles, &c	30,243	Feb. 21	86	1316
Fauber, William H., Chicago, Ill. Sprocket-wheel for bicycles	31,194	July 11	88	377
Fechtel, Henry G., St. Louis, Mo. Box-support for tricycle-wagons	30,734	May 9	87	1065
Feder, Harry New York, N. Y. Skirt-binding	30,041	Jan. 17	86	485
Feder, Harry New York, N. Y. Skirt-binding	32,052	Dec. 26	89	2647
Fender, James C. (See Selby, Frederick, assignor.)				
Ferland, Napoleon E. H. (See Ladouceur and Ferland.)				
Fernald, George H., North East, Pa. Spring for antirattlers	31,945	Dec. 5	89	2059
Fessenden & Co. (See Manchester, Silas H., assignor.)				
Fichtenberg, Moritz, Milwaukee, Wis. Bicycle-frame	30,819	May 16	87	1227
Fickett, Walter. (See Evans, James F., assignor.)				
Field, Arthur M., Asheville, N. C. Charm or similar article	30,004	Jan. 17	86	478
Fields, Charles T. (See Fields, William L. and C. T.)				
Fields, William L. and C. T., assignors of one-third to M. M. Hankins, Cedar Bluff, Va. Ratchet-bar for window-fasteners	31,510	Sept. 12	88	2061
Fields, William L. and C. T., assignors of one-third to M. M. Hankins, Cedar Bluff, Va. Gravity-latch for window-fasteners	31,635	Oct. 10	89	343
Fink, Joseph H., New York, N. Y. Finger-ring	30,455	Apr. 4	87	165
Finkbeiner, Michael O., Myrtle, Cal. Can-opener	30,615	Apr. 25	87	686
Finn, Jacob A., New York, N. Y. Stock	31,659	Oct. 10	89	346
Finn, Wade M., *et al.* (See Jones, Samuel H., assignor.)				
Fischer, Torquato T., New York, N. Y. Piano-pedal support	30,065	Jan. 24	86	626
Fischer, Torquato T., New York, N. Y. Piano pedal member	30,998	June 13	87	1949

Alphabetical list of patentees of designs—Continued.

Name, residence, and design.	No.	Date.	Official Gazette. Vol.	Page.
Fisher, Abraham. (See Fisher, Israel, assignor.)				
Fisher, Israel, assignor of one-half to A. Fisher, New York, N. Y. Fabric	31,056	June 20	87	2112
Fitzgerald, John J., assignor to Fitzgerald Meat Tree Company, Chicago, Ill. Meat-hanger member	31,309	Aug. 1	88	938
Fitzgerald Meat Tree Company. (See Fitzgerald, John J., assignor.)				
Fleming, Patrick, and J. Lyon, assignors to J. A. Betsner and I. C. Koehne, Dayton, Ohio. Game-board	31,104	June 27	87	2314
Flint, Edward D., Oakland, Cal. Horseshoe-pad	30,095	Jan. 31	86	788
Flint, Edward D., Oakland, Cal. Horseshoe-pad	30,274	Feb. 28	86	1489
Floersheimer, Samuel, New York, N. Y. Waist	31,425	Aug. 15	88	1328
Florence Manufacturing Company. (See Hewitson, Edward A., assignor.)				
Flynn, Andrew J. (See Patterson and Flynn.)				
Follstad, Anton, Elcho, Wis. Skate	31,052	June 20	87	2111
Fong, August C., Chicago, Ill. Syrup-pump head	31,996	Dec. 19	89	2452
Ford, George R., St. Louis, Mo. Match	30,656	May 2	87	877
Ford, George R., St. Louis, Mo. Match	30,657	May 2	87	877
Forsheim, Joseph, New York, N. Y. Charm	31,062	June 27	87	2308
Forster, John H., New Ulm, Minn. Snap-hook member	30,897	May 30	87	1596
Forsyth, Wilber D., and E. T. Bell, Pittsburg, Pa. Cutter for boiler-tube cleaners	31,370	Aug. 8	88	1148
Foster Brothers Manufacturing Company. (See Camp, George E., assignor.)				
Foster, Theodore W., Providence, R. I. Handle for button-hooks, &c	31,066	June 27	87	2308
Foster, Theodore W., Providence, R. I. Cover for puff-boxes or similar articles	31,120	July 4	88	178
Foster, Theodore W., Providence, R. I. Back for brushes or similar articles	31,121	July 4	88	178
Foster, Theodore W., Providence, R. I. Bowl for tea-sets, &c	31,344	Aug. 8	88	1143
Foster, Timothy H. (See Ayres and Foster.)				
Fostoria Glass Company. (See Martin, Lucien B., assignor.)				
Foulis, David. (See Foulis, James and D.)				
Foulis, James and D., Wheaton, Ill. Golf-ball	30,378	Mar. 21	86	1977
Fourquignon, Emil, New York, N. Y. Nail-file	31,119	July 4	88	178
Fowler Radiator and Manufacturing Company. (See Waters, Samuel B., assignor.)				
Fox, Ernest C., Cleveland, Ohio. Register-box	31,239	July 18	88	535
Fox, George D., Buffalo, N. Y. Broom-holder	31,591	Oct. 3	89	181
Fox, Louis, Fort Wayne, Ind., assignor to National Biscuit Company, Chicago, Ill. Cracker or biscuit	31,777	Oct. 31	89	914
Francis, Thomas M., and C. B. Griffith, Carthage, Ill. Member for tools	31,487	Sept. 5	88	1891
Francisco, Charles H., New York, N. Y. Bottle	30,264	Feb. 28	86	1487
Frank, George W., assignor to C. W. Bingeman, Buffalo, N. Y. Badge	30,599	Apr. 25	87	683
Frankenberg, Frederick G., assignor of two-thirds to M. C. Metcalfe, St. Louis, Mo. Vapor-lamp	30,767	May 16	87	1218
Frankenberg, Frederick G., assignor of two-thirds to M. C. Metcalfe, St. Louis, Mo. Vapor-lamp	30,904	May 30	87	1597
Frederick, John E., *et al.* (See Srofe, Jesse H., assignor.)				
Fredericks, Enoch M., Chicago, Ill. Supporting-piece or plunger for dental chairs	30,693	May 2	87	883
Freed, Aaron C., Royersford, Pa. Casing for sink or sewer traps	30,800	May 16	87	1224
Freeman, Ella J., Boston, Mass. Sink guard or strainer	30,746	May 9	87	1068
Freeman, Warren P., assignor to Empire Electrical Machinery Company, New York, N. Y. Field-magnet frame	31,238	July 18	88	535
Freistroffer, Henry, Fort Wayne, Ind. Calk	30,483	Apr. 4	87	170
French, George H., assignor to Riley, French & Heffron, North Attleborough, Mass. Chain	31,545	Sept. 26	88	2402
Fritts, Atwood D., Hoboken, N. J. Door-hinge	31,442	Aug. 22	88	1519
Fritts, Lemuel, Sunny Side, N. J. Sheaf-holder	31,472	Aug. 29	88	1697
Fritzsche, Lebrecht, Newark, N. J. Handle for button-hooks or similar articles	29,959	Jan. 10	86	332
Fritzsche, Lebrecht, Newark, N. J. Match-box	31,400	Aug. 15	88	1324
Fromhart, William H. (See Harper and Fromhart.)				
Frost, Frank S., and R. B. Dutch, Chicago, Ill. Directory-stand or similar article	31,524	Sept. 19	88	2234
Frye, Charles H., assignor to himself and A. E. Jewell, Buffalo, N. Y. Support for mantles for gas-burners	30,902	May 30	87	1597
Frye, Henry A., New York, N. Y. Lace-fastening	31,843	Nov. 14	89	1335
Fuertes, James H., New York, N. Y. Game-board	29,998	Jan. 10	86	338
Fuld, Manes E., Baltimore, Md. Current-regulator case	29,977	Jan. 10	86	335
Fuller, Charles I., McLean, N. Y. Rubber for washing-machines	30,679	May 2	87	880
Fuller, John W., Dalton, Mass. Outer sole	31,294	July 25	88	712
Fullington, William H., Dayton, assignor to American Peg Pool Table Company, Columbus, Ohio. Game-board	30,379	Mar. 21	86	1977
Fullington, William H., Dayton, assignor to American Peg Pool Table Company, Columbus, Ohio. Lever	30,444	Mar. 28	86	2164
Fulton Pulley Company. (See Watson, Frank T., assignor.)				
Furlow, John G., Philadelphia, Pa. Drain-pipe	30,318	Mar. 7	86	1628
Gabe, John B., Swansea, England. Thermometer-case	30,225	Feb. 21	86	1313
Gabel, Henry F., Pittsburg, Pa. Gas-burner	30,668	May 2	87	879
Gabel, John C., Jr., Onarga, Ill. Hinge for door-hangers	31,592	Oct. 3	89	181
Gagan, James M., Chicago, Ill. Casing for counterbalance-springs	30,238	Feb. 21	86	1315
Gagel, Henry N., Dayton, Ohio. Column for cream-separators	30,673	May 2	87	879
Galbraith, Dennis J., Plainfield, N. J. Pipe-coupling	30,031	Jan. 17	86	483
Gale Manufacturing Company. (See Beall, William L., assignor.)				
Gallimore, William W., assignor to American Lamp and Brass Company, Trenton, N. J. Supporting-base	30,777	May 16	87	1220
Galor, Della M., Mapleville, Md. Toy bank	32,048	Dec. 26	89	2646
Galt, Smith P. (See Terry, Samuel H., assignor.)				
Galt, Thomas A., Sterling, Ill. Lid for washing-machine casings	31,942	Dec. 5	89	2059
Gardner, Edward D., Newark, N. J. Bicycle handle-bar grip	31,801	Nov. 7	89	1133
Gardner, Edward D., Newark, N. J. Bicycle handle-bar grip	31,802	Nov. 7	89	1133
Gardner, George C., Chicago, Ill. Casing member for sliding-door supports	31,088	June 27	87	2312
Garland, William H., Kansas City, Mo. Spool-thread holder	31,300	Aug. 1	88	937
Garner, Charles W. (See Howle, John W., assignor.)				
Gathright, Josiah B., Louisville, Ky. Trace-carrier	31,004	June 13	87	1950
Geiger, Herman F., Dansville, N. Y. Grave-guard	30,870	May 23	87	1391
Gelatt, James M. (See Chapman and Gelatt.)				
Gem City Stove Company. (See Cope, Henry P., assignor.)				
General Electric Company. (See Harthan, Charles E., assignor.)				
General Electric Company. (See Moody, Walter S., assignor.)				
General Electric Company. (See Priest, Edward D., assignor.)				
George, David and J. D., Detroit, Mich. Sewer-tile	31,891	Nov. 28	89	1852
George, John D. (See George, David and J. D.)				
Geraghty, John J., Chicago, Ill. Mouthpiece	31,395	Aug. 15	88	1323
Gerhardt, William, New York, N. Y. Shirt-pattern	31,775	Oct. 31	89	914
Germer, Edward G., Erie, Pa. Stove	30,908	May 30	87	1598
Gerry, Frank F., Sudbury, Mass. Game-board	31,760	Oct. 31	89	911

Alphabetical list of patentees of designs—Continued.

Name, residence, and design.	No.	Date.	Official Gazette. Vol.	Page.
Gervin, Charles D., New York, N. Y. Gas-burner	30,619	Apr. 25	87	686
Gerwig, Henrietta, Allegheny, Pa. Dust-pan	31,183	July 11	88	375
Gibbs, William H., Honesdale, Pa. Cut-glass vessel	31,781	Nov. 7	89	1130
Gilbert, Henry K., Niagara Falls, N. Y., assignor to R. F. Morse, Providence, R. I. Rubber gasket	30,405	Mar. 28	86	2158
Gildard, Christopher G. (See Coldwell and Gildard.)				
Gilfillan, Essington N., assignor to Gilfillan Scale and Hardware Company, Chicago, Ill. Frame for spring-balances	30,114	Jan. 31	86	791
Gilfillan Scale and Hardware Company. (See Gilfillan, Essingtou N., assignor.)				
Gill, John B., Roswell, N. Mex. Ter. Window-shade bracket	31,889	Nov. 28	89	1852
Gillam, Manly M., assignor to Universal Time Company, New York, N. Y. Clock-dial	30,937	June 6	87	1778
Gillespie, Frank P., assignor of one-half to J. I. Town, Erie, Pa. Gas-stove	31,537	Sept. 19	88	2236
Gillespie, Frank P., assignor of one-half to J. I. Town, Erie, Pa. Frame for gas-stoves	31,604	Oct. 3	89	183
Gillett, Clarence R., assignor to Magic Light Company, Chicago, Ill. Lamp-fixture	30,621	Apr. 25	87	680
Gilliam Manufacturing Company. (See Crane, Charles M., assignor.)				
Gilliam Manufacturing Company. (See Harmon, John W., assignor.)				
Gilliam Manufacturing Company. (See Miller, Charles W., assignor.)				
Gilson, John, Port Washington, Wis. Chair-spindle	31,416	Aug. 15	88	1327
Gimbel, Daniel, and A. Decker, Chicago, Ill. Knee-protector	30,552	Apr. 11	87	356
Glas, John C., Lake View, N. Y. Snap-gage	30,625	Apr. 25	87	687
Glauber, Isaac N., Cleveland, Ohio. Faucet	31,363	Aug. 8	88	1146
Glauber, Joseph H., Cleveland, Ohio. Elbow-coupling	31,553	Sept. 26	88	2404
Gobeille, Joseph L., Cleveland, Ohio, assignor to Reading Stove Works, Orr, Painter & Co., Reading, Pa. Heater	30,907	May 30	87	1598
Gobeille, Joseph L., Cleveland, Ohio, assignor to Reading Stove Works, Orr, Painter & Co., Reading, Pa. Cooking stove or range	31,808	Nov. 7	89	1135
Gohlke, Louis, and R. W. Irwin, assignors to Grand Rapids School Furniture Company, Grand Rapids, Mich. Chair-back	30,138	Feb. 7	86	986
Gold, Edward E., New York, N. Y. Electric-heater casing	29,976	Jan. 10	86	335
Gold, Edward E., New York, N. Y. Steam-trap casing	31,444	Aug. 22	88	1519
Goldie, William, Pittsburg, Pa. Tie-plate	30,852	May 23	87	1388
Goldie, William, Pittsburg, Pa. Tie-plate	31,137	July 4	88	181
Goldie, William, Wilkinsburg, Pa. Crate	31,253	July 18	88	537
Goltra, Edward F., St. Louis, Mo. Car-body bolster	29,935	Jan. 3	86	173
Goltra, Edward F., St. Louis, Mo. Car-body bolster	29,936	Jan. 3	86	173
Goltra, Edward F., St. Louis, Mo. Car-body bolster	29,937	Jan. 3	86	173
Goodridge, Ezra R., New York, N. Y. Terminal member for exercising-machines	30,972	Juue 6	87	1776
Goodwin, Frank D., assignor of one-half to H. A. Chapmau, Bangor, Me. Stair-corner guard	30,252	Feb. 21	86	1318
Gordon, Gideon M., Kansas City, Mo. Coffee can or bin	31,134	July 4	88	180
Gordon, Ira F., Traverse City, Mich. Sprayer-body	30,360	Mar. 21	86	1974
Gordon, Ira F., Traverse City, Mich. Sprayer-body	31,679	Oct. 17	89	511
Gorham Manufacturing Company. (See Codman, William C., assignor.)				
Gorman, John J., Chicago, Ill. Protective foot-plate for cars, &c	30,270	Feb. 28	86	1488
Gormley, Patrick, Sturgeon Bay, Wis. Churn-dasher	30,068	Jan. 24	86	626
Graef, Albrecht, New York, N. Y. Razor-blade	31,625	Oct. 10	89	342
Graf, Martin T., assignor of one-half to J. C. Breker, Buffalo, N. Y. Badge	30,645	May 2	87	876
Graff, Bernhard M., St. Louis, Mo. Locket	30,646	May 2	87	876
Graff, Charles, assignor to Graff, Washbourne & Dunn, New York, N. Y. Metal stock	32,035	Dec. 26	89	2643
Graff, Washbourne & Dunn. (See Graff, Charles, assignor.)				
Graham, Lucie A., New York, N. Y. Skirt and waist supporter	31,383	Aug. 8	88	1150
Graham, Lucie A., New York, N. Y. Skirt and waist supporter	31,384	Aug. 8	88	1150
Graham, Lucie A., New York, N. Y. Skirt and waist supporter	31,385	Aug. 8	88	1150
Graham, Lucie A., New York, N. Y. Skirt and waist supporter	31,386	Aug. 8	88	1150
Grametbaur, August A., New York, N. Y. Plate	31,434	Aug. 22	88	1518
Grand Rapids School Furniture Company. (See Gohlke and Irwin, assignors.)				
Grasmuk, Henry L., assignor to Krementz & Co., Newark, N. J. Lorgnette-case	29,960	Jan. 10	86	332
Grasmuk, Henry L., assignor to Krementz & Co., Newark, N. J. Lorgnette-case	29,961	Jan. 10	86	332
Grasmuk, Henry L., assignor to Krementz & Co., Newark, N. J. Lorgnette-case	29,962	Jan. 10	86	333
Grasmuk, Heury L., assignor to Krementz & Co., Newark, N. J. Lorgnette-case	29,963	Jan. 10	86	333
Graul, Robert E. (See Day, Elisha L., assignor.)				
Graves, Peter T., assignor to Milwaukee Chair Company, Milwaukee, Wis. Chair	31,049	June 20	87	2111
Gray, Charlie E., Pecatonica, Ill. Syringe-nozzle	30,313	Mar. 7	86	1628
Gray, Earl D., Denver, Colo. Pessary	30,862	May 23	87	1390
Gray, Eugene B., New York, N. Y. Foot-brake dog	30,269	Feb. 28	86	1488
Green, George B., assignor to F. Bach, New York, N. Y. Hassock	30,509	Apr. 4	87	174
Green, William A., Akron, Ohio. Hammock-back	30,256	Feb. 21	86	1318
Greenberg, George G., Chicago, Ill. Badge	31,617	Oct. 10	89	340
Greenberg, Maurice, assignor to J. Loeb and H. Lipper, Philadelphia, Pa. Trimming	31,332	Aug. 1	88	941
Greene, Ernest F., Buffalo, N. Y. Badge	30,600	Apr. 25	87	683
Greene, Joel H., Dubuque, Iowa. Bed-post	30,376	Mar. 21	86	1976
Greene, Oscar H., Chico, Cal. Side-wall writing-case	31,312	Aug. 1	88	938
Greenway, Samuel E., Deloraine, Canada. Paper-weight	31,071	June 27	87	2309
Greenwood, Frank. (See Falls, William F., assignor.)				
Greenwood, John, and F. J. Helmuth, North Chicago, Ill. Badge	29,916	Jan. 3	86	170
Greer, Frederick, Chicago, Ill. Protector and fuse holder and block	30,634	Apr. 25	87	688
Greger, Thomas P., Philadelphia, Pa. Manhole-cover	30,631	Apr. 25	87	688
Greger, Thomas P., Philadelphia, Pa. Manhole-cover	30,632	Apr. 25	87	688
Greger, Thomas P., Philadelphia, Pa. Manhole-cover	30,633	Apr. 25	87	688
Greger, Thomas P., Philadelphia, Pa. Manhole-cover frame	30,694	May 2	87	883
Greger, Thomas P., Philadelphia, Pa. Manhole-cover	30,695	May 2	87	884
Greger, Thomas P., Philadelphia, Pa. Manhole-cover	30,696	May 2	87	884
Greger, Thomas P., Philadelphia, Pa. Manhole-cover	30,697	May 2	87	884
Greger, Thomas P., Philadelphia, Pa. Manhole-cover	30,804	May 16	87	1224
Greger, Thomas P., Philadelphia, Pa. Manhole-cover	30,805	May 16	87	1224
Greger, Thomas P., Philadelphia, Pa. Manhole-cover	30,806	May 16	87	1225
Greger, Thomas P., Philadelphia, Pa. Manhole-cover	30,807	May 16	87	1225
Greger, Thomas P., Philadelphia, Pa. Manhole-cover	30,808	May 16	87	1225
Greger, Thomas P., Philadelphia, Pa. Manhole-cover	30,809	May 16	87	1225
Greger, Thomas P., Philadelphia, Pa. Manhole-cover	30,810	May 16	87	1225
Greger, Thomas P., Philadelphia, Pa. Manhole-cover frame	30,811	May 16	87	1225
Greger, Thomas P., Philadelphia, Pa. Manhole-cover plate	30,812	May 16	87	1226
Greig, Andrew G., New York, N. Y., assignor to Bigelow Carpet Company, of Massachusetts. Carpeting	30,451	Mar. 28	86	2165
Greig, Andrew G., New York, N. Y., assignor to Bigelow Carpet Company, of Massachusetts. Carpeting	30,452	Mar. 28	86	2166
Grell, Frederick W., New York, N. Y., assignor to American Hard Rubber Company, of New York. Comb	30,261	Feb. 28	86	1487

Alphabetical list of patentees of designs—Continued.

Name, residence, and design.	No.	Date.	Official Gazette. Vol.	Page.
Grelle, Alexander W., assignor of one-third to H. C. Cushman, Logansport, Ind. Box-lid holder	31,999	Dec. 19	87	2452
Grenon, Henry, New Haven, Conn. Collar and cuff smoother	31,755	Oct. 31	89	910
Griffith, Charles B. (See Francis and Griffith.)				
Griffith, William A., Quebec, Canada. Golf-stick handle	30,708	May 2	87	886
Griggs, Sarah E., Woodland, Cal. Hat-holder	30,463	Apr. 4	87	167
Grimm, Henry J., Quincy, Ill. Feed-cooker	31,135	July 4	88	180
Grindley, William H., Congleton, England, assignor to W. S. Pitcairn, New York, N. Y. Covered dish	31,710	Oct. 24	89	697
Grindley, William H., Congleton, England, assignor to W. S. Pitciarn, New York, N. Y. Ewer	31,739	Oct. 31	89	908
Grindley, William H., Congleton, England, assignor to W. S. Pitciarn, New York, N. Y. Dish	31,740	Oct. 31	89	908
Griswold, Matthew, Jr., Erie, Pa. Heating-stove	31,720	Oct. 24	89	699
Griswold, Matthew, Jr., Erie, Pa. Gas-stove	31,721	Oct. 24	89	699
Grout, Charles B. (See Grout, Frederick E. and C. B.)				
Grout, Frank R., Chicago, Ill. Case for stamp-moisteners	30,005	Jan. 17	86	478
Grout, Frederick E. and C. B., Orange, Mass. Vehicle-frame	31,803	Nov. 7	89	1134
Guenther, Charles E., Knowlton, and P. Murray, Wausau, Wis. Saw-blade	31,155	July 4	88	184
Guerne, George E. (See Rhodes, Jay B., assignor.)				
Gutmann, Emil, New York, N. Y. Packing-box for garters	31,586	Oct. 3	89	180
Guyer, Harry E., Philadelphia, Pa. Eyeglass-case	30,045	Jan. 24	86	623
Guyer, Harry E., Philadelphia, Pa. Eyeglass-case	30,934	June 6	87	1770
Guyer, Harry E., Philadelphia, Pa. Eyeglass-case	31,351	Aug. 8	88	1144
H. H. Curtis Company. (See Diacont, Frank J., assignor.)				
Haak, Karl W., Texarkana, Ark. Bicycle-tire protector	30,037	Jan. 17	86	484
Haase, Henry, Philadelphia, Pa., assignor to Hensel, Colladay Company, of Pennsylvania. Skirt-protector	30,866	May 23	87	1391
Habensack, Frederick, Sag Harbor, assignor, by mesne assignments, to Fahys Watch-Case Company, New York, N. Y. Spoon or fork handle	30,875	May 30	87	1593
Haberer, Charles, *et al.* (See Baker, Henry H., Jr., assignor.)				
Hadley, George W., assignor to Lamb Manufacturing Company, Chicopee Falls, Mass. Sprocket-wheel	30,117	Jan. 31	86	792
Hadsell, Julius T., *et al.* (See Eckerson, David I., assignor.)				
Hadsell, Porter R., *et al.* (See Eckerson, David I., assignor.)				
Haggard, John D., and H. H. Marcusson, Chicago, Ill. Headboard or footboard for bedsteads	30,341	Mar. 14	86	1798
Haglock, John G., Sterling, Ill. Hame-tug member	31,469	Aug. 29	88	1696
Haight, David M., Oswego, Ill. Egg-tester	29,942	Jan. 3	86	174
Hainline, Lemuel S., Rushville, Mo. Monument	31,161	July 4	88	185
Hake, Philipp, Hoboken, N. J. Souvenir booklet	30,132	Feb. 7	86	985
Hall, Benjamin W., Holyoke, Mass. Journal for lay-boys	31,507	Sept. 12	88	2061
Hall, Frank, Duluth, assignor of one-half to C. Elfstrand, Sandstone, Minn. Baby-carriage	30,190	Feb. 14	86	1159
Hall, Horatio L., Chicago, Ill., assignor to American School Furniture Company, Chicago, Ill., and New York, N. Y. Standard for school-desks	31,287	July 25	88	710
Hall, John B. (See Oehler, William, assignor.)				
Halladay, Lewis P., Marion, Ind. Crank-shaft sleeve	31,492	Sept. 5	88	1892
Halladay, Lewis P., Marion, Ind. Poise for scales	31,506	Sept. 12	88	2060
Halladay, Lewis P., Marion, Ind. Scale-beam	31,603	Oct. 3	89	183
Halleck, William C., New York, N. Y. Protector	31,271	July 18	88	541
Hamburger, Simon, New York, N. Y. Paper box	30,428	Mar. 28	86	2162
Hamlin, William T., and C. Johann, Chicago, Ill. Broom and brush holder	31,123	July 4	88	178
Hamm, William S., Chicago, Ill., assignor to Adams & Westlake Company, of Illinois. Wash-stand	32,044	Dec. 26	89	2645
Hamm, William S., Chicago, Ill., assignor to Adams & Westlake Company, of Illinois. Wash-stand	32,045	Dec. 26	89	2645
Hamm, William S., Chicago, Ill., assignor to Adams & Westlake Company, of Illinois. Wash-stand	32,046	Dec. 26	89	2646
Hammer, Henry, Mountain Lake, Minn. Buckle	31,748	Oct. 31	89	909
Hammond, Myron B., Bridgeport, Conn. Plate for buckles	31,504	Sept. 12	88	2060
Hampton, George W., Louisville, Ky. Glass-holder	31,125	July 4	88	179
Hamrick, Harry M., Philadelphia, Pa., assignor to International Incandescent Light Company, of West Virginia. Casing for air and oil supply for burners	30,028	Jan. 17	86	482
Handly, Robert M., Metz, Mo. Fence-post	31,091	June 27	87	2312
Hankins, Madison M. (See Fields, William L. and C. T., assignors.)				
Hanna, Charles S., West Hebron, N. Y. Cream-separator	31,255	July 18	88	538
Hanrahan, Jere J., New York, N. Y. Pipe-coupling	30,487	Apr. 4	87	170
Hansen, H. C. (See Cumming, John F., assignor.)				
Harbison, Sam, Knoxville, Tenn. Trace-fastener spring	31,531	Sept. 19	88	2235
Harding, Charles K., Chicago, Ill. Lamp-burner	31,406	Aug. 15	88	1325
Hardy, Emile, New York, N. Y. Clock-frame	30,577	Apr. 18	87	506
Hardy, Emile, assignor to A. H. Hoag, New York, N. Y. Clock-case	31,227	July 18	88	533
Hardy, Emile, assignor to A. H. Hoag, New York, N. Y. Clock-case	31,228	July 18	88	533
Hardy, Emile, assignor to A. H. Hoag, New York, N. Y. Clock-case	31,229	July 18	88	533
Hardy, John B., Chester, Conn. Flexible-cord-tip coupling	30,255	Feb. 21	86	1318
Harmon, John W., assignor to Gilliam Manufacturing Company, Canton, Ohio. Coach-pad	30,273	Feb. 28	86	1489
Harper, William G., and W. H. Fromhart, Muncie, Ind. Picture-holding easel	30,541	Apr. 11	87	351
Harris, Charles R., Williamsport, Pa. Receptacle	30,763	May 16	87	1218
Harris, Clayton S., Philadelphia, Pa. Mezzotint-print	30,329	Mar. 14	86	1796
Harris, Frank H., Toledo, Ohio. Car-platform	31,374	Aug. 8	88	1148
Harris, George W., Akron, Ohio. Jaw for tack-pullers	31,036	June 20	87	2109
Harris, Godfrey H., New York, N. Y., assignor to Dickinson Hard Rubber Company, of Massachusetts. Game-counter	30,208	Feb. 14	86	1162
Harris, Godfrey H., New York, N. Y., assignor to Dickinson Hard Rubber Company, of Massachusetts. Game-counter	30,209	Feb. 14	86	1162
Hart, William H., Jr., Philadelphia, Pa. Bicycle-support	30,815	May 16	87	1226
Hart, William H., Jr., Philadelphia, Pa. Bicycle-support	30,816	May 16	87	1226
Hart, William H., Jr., Philadelphia, Pa. Bicycle-support	30,817	May 16	87	1227
Hart, William H., Jr., Philadelphia, Pa. Bicycle-support	30,818	May 16	87	1227
Hart, William H., Jr., Philadelphia, Pa. Bicycle-support	31,479	Aug. 29	88	1698
Hart, William H., Jr., Philadelphia, Pa. Bicycle-support	31,480	Aug. 29	88	1698
Harthan, Charles E., Lynn, Mass., assignor to General Electric Company, of New York. Electric-arc-lamp casing	30,686	May 2	87	882
Harthan, Charles E., Lynn, Mass., assignor to General Electric Company, of New York. Casing and support for electric-arc lamps	31,146	July 4	88	182
Hartley, De Bert, Chicago, Ill. Combined dresser and commode	30,304	Mar. 28	86	2156
Hartman, Henry W., trustee. (See Thompson, Joseph W., assignor.)				
Hartman, Henry W., Ellwood City, Pa. Mat or similar article	30,075	Jan. 24	86	627
Hartman, Thomas M., Hyde Park, Ohio. Display-rack or similar article	32,042	Dec. 26	89	2645

Alphabetical list of patentees of designs—Continued.

Name, residence, and design.	No.	Date.	Official Gazette. Vol.	Page.
Hartness, James. (See Spear, John G., assignor.)				
Hartung, Charles C., assignor to E. Walsh, Jr., St. Louis, Mo. Sheet-glass	31,700	Oct. 17	89	514
Haskell, Henry L., Ludington, Mich. Game-board	31,018	June 13	87	1953
Haslup, Dod, Grafton, W. Va. Necktie-holder	30,701	May 2	87	884
Haslup, Dod, Grafton, W. Va. Necktie-holder	31,394	Aug. 15	88	1323
Hatch, Charles A., Hartford, Conn. Car-fender	30,582	Apr. 18	87	507
Hatfield, Guy M., Pawnee, Okla. Ter. Clothes-pin	31,184	July 11	88	376
Haubner, Frank O., New York, N. Y. Warp-net fabric	30,709	May 2	87	886
Hauck, Edward L., Indianapolis, Ind. Jar or bottle cover blank	30,613	Apr. 25	87	685
Haupt, Henry L., Butte, Mont. Call-box and base	30,053	Jan. 24	86	624
Havell, George, Newark, N. J. Member for hair-curling irons	30,093	Jan. 31	86	788
Havell, George, assignor to Havell Manufacturing Company, Newark, N. J. Bicycle-lamp	30,448	Mar. 28	86	2165
Havell, George, assignor to Havell Manufacturing Company, Newark, N. J. Bicycle-lamp	30,449	Mar. 28	86	2165
Havell Manufacturing Company. (See Havell, George, assignor.)				
Hawes, Benjamin N., Washington, D. C. Hydrocarbon-burner	31,031	June 20	87	2108
Hawkins, C Frank, Breesport, N. Y. Bottom for cream-separators	30,962	June 6	87	1775
Hawks, William, Midland, Mich. Generator-shell for hydrocarbon-lamps	30,993	June 13	87	1949
Hawks, William, Midland, Mich. Generator for hydrocarbon-lamps	31,032	June 20	87	2108
Hayden, Jeremiah M., Grand Rapids, Mich. Block of metal	30,469	Apr. 4	87	167
Hayes, Leroy C., Decatur, Ill. Carpet-cleaner cylinder	30,617	Apr. 25	87	686
Haynes, Courtland, Hawesville, Ky. Drainer	31,491	Sept. 5	88	1892
Hayssen, Hermann, Sheboygan, Wis. One-piece lavatory	30,572	Apr. 18	87	505
Hayssen, Hermann, Sheboygan, Wis. One-piece lavatory	30,573	Apr. 18	87	505
Head, William N., New York, N. Y. Coffee-pot	30,614	Apr. 25	87	685
Healy, Patrick H., assignor to American Cut Glass Company, Chicago, Ill. Glass disk	30,267	Feb. 28	86	1488
Heany, John A., assignor of one-half to W. L. Teter, Philadelphia, Pa. Cushion for hand-stamps	30,884	May 30	87	1595
Heany, John A., assignor of one-half to W. L. Teter, Philadelphia, Pa. Cushion for hand-stamps	31,276	July 25	88	709
Hearne, John, New York, N. Y. Gas-meter-diaphragm hoop	30,029	Jan. 17	86	483
Heaton, William, near Allerton, Ill. Cattle-shed	31,252	July 18	88	537
Hedgeland, Frederick W., Chicago, Ill. Lamp-body	31,887	Nov. 28	89	1851
Heffner, William, Minneapolis, Minn. Fire-cracker holder	31,454	Aug. 22	88	1521
Hegman, Frank J., Dayton, Ohio. Footstool	30,192	Feb. 14	86	1159
Hegman, Frank J., Dayton, Ohio. Footstool	30,193	Feb. 14	86	1159
Heib, William, Akron, Ohio. Eaves-trough hanger	30,108	Jan. 31	86	790
Heib, William, Philadelphia, Pa. Gutter-hanger	31,508	Sept. 12	88	2061
Heib, William, Philadelphia, Pa. Gutter-hanger shank	31,509	Sept. 12	88	2061
Heib, William, Philadelphia, Pa. Conductor-fastener	31,836	Nov. 14	89	1334
Heine, Albert. (See Barker, Patrick H., assignor.)				
Heisey, Augustus H., Idlewood, Pa. Glass vessel	31,078	June 27	87	2310
Held, August E., assignor to S. Sanford & Sons, Amsterdam, N. Y. Carpeting	31,333	Aug. 1	88	941
Helix Gear Company. (See Johnson, Moses C., assignor.)				
Helmuth, Francis J. (See Greenwood and Helmuth.)				
Hemingray Glass Company. (See Converse, Vernon G., assignor.)				
Henius, Max, Chicago, Ill. Bottle	31,126	July 4	88	179
Henley, John R. (See Morgan, Jasper E., assignor.)				
Hennegin, Herbert H., assignor to National Motor Company, St. Louis, Mo. Gas-engine frame	31,807	Nov. 7	89	1134
Hensel, Colladay Company. (See Haase, Henry, assignor.)				
Hensel, Colladay Company. (See Hensel, George S., assignor.)				
Hensel, Colladay Company. (See Kirberg, Jakob E., assignor.)				
Hensel, George S., Philadelphia, Pa. Skirt-protector	30,300	Feb. 28	86	1493
Hensel, George S., Philadelphia, Pa., assignor to Hensel, Colladay Company, of Pennsylvania. Skirt and shoe protector	30,704	May 2	87	885
Hensel, George S., Philadelphia, Pa., assignor to Hensel, Colladay Company, of Pennsylvania. Skirt and shoe protector	30,747	May 9	87	1068
Hensel, George S., Philadelphia, Pa., assignor to Hensel, Colladay Company, of Pennsylvania. Skirt-protector	31,164	July 4	88	185
Hensel, George S., Philadelphia, Pa., assignor to Hensel, Colladay Company, of Pennsylvania. Skirt-protector	31,568	Sept. 26	88	2407
Hensel, George S., Philadelphia, Pa., assignor to Hensel, Colladay Company, of Pennsylvania. Skirt-protector	31,569	Sept. 26	88	2407
Hensel, George S., Philadelphia, Pa., assignor to Hensel, Colladay Company, of Pennsylvania. Skirt and shoe protector	31,913	Nov. 28	89	1855
Herfert, Joseph, Tucker, Wash. Tool-head	30,618	Apr. 25	87	686
Herms, William. (See Weigelt and Herms.)				
Herrick, Albert B., Ridgewood, N. J. Electric switch-jaw	30,152	Feb. 7	86	990
Herrington, William K., Aurora, Ill. Cuff-holder	31,548	Sept. 26	88	2403
Herskovitz, Max, Chicago, Ill. Lamp-chimney for incandescent gas-lights	30,367	Mar. 21	86	1975
Herz, George C., New York, N. Y. Switch-blade	31,797	Nov. 7	89	1133
Herzog, Joseph L., New York, N. Y. Ornamented stone for jewelry	31,220	July 18	88	531
Hess, Charles H., assignor to Kearns-Gorsuch Bottle Company, Zanesville, Ohio. Jar-cap fastener	31,435	Aug. 22	88	1518
Heston, David, assignor to D. Heston & Sons, Philadelphia, Pa. Blank for paper boxes	30,944	June 6	87	1772
Heston, David, assignor to D. Heston & Sons, Philadelphia, Pa. Blank for paper boxes	30,945	June 6	87	1772
Heston & Sons, David. (See Heston, David, assignor.)				
Hewitson, Edward A., assignor to Florence Manufacturing Company, Northampton, Mass. Handle for tooth-brushes or like articles	31,348	Aug. 8	88	1143
Heywood, James, Philadelphia, Pa. Channel-bar support	31,551	Sept. 26	88	2403
Heywood, James, Philadelphia, Pa. Cable-support	31,552	Sept. 26	88	2403
Hiemenz, Frank, St. Louis, Mo. Clothes-rack frame	30,120	Jan. 31	86	792
Higgins, Charles M., New York, N. Y. Screw-cap	30,669	May 2	87	879
Hightower, Eijah H., Columbus, Tex. Insect-exterminator	30,528	Apr. 11	87	349
Hill, Clarence A., Canton, Ohio. Blade or knife for vegetable-cutters	30,366	Mar. 21	86	1975
Hill, David, Washington, N. C. Nut-wrench	30,115	Jan. 31	86	791
Hill, Peter C., Winona, Minn. Photograph holder or easel	31,580	Oct. 3	89	179
Hillman, Jotham R., Shortsville, N. Y. Knife for slicing-machines	31,752	Oct. 31	89	910
Hills, Albert S., Haydenville, Mass. Double bath-cock body	31,599	Oct. 3	89	182
Hills, James E., New York, N. Y. Link cuff-button	31,731	Oct. 31	89	906
Hills, Louis C., Washington, D. C., assignor to T. J. Bradley, Memphis, Tenn. Lamp-fixture	30,084	Jan. 31	86	786
Hinken, John H., and J. E. Turney, Louisville, Ky., assignors to Turney Drier Company, Chicago, Ill. Filter-press plate	31,890	Nov. 28	89	1852
Hinoult, Mary I. (See Hinoult, Theodore, assignor.)				
Hinoult, Theodore, assignor to M I. Hinoult, Albany, N. Y. Cover for frying-pans	31,464	Aug. 29	88	1695
Hirsch, George F. (See Cookson, Charles W., assignor.)				
Hitzelberger, Gustave F., assignor to American Electrical Novelty and Manufacturing Company, New York, N. Y. Portable lamp-body	29,939	Jan. 3	86	174

Alphabetical list of patentees of designs—Continued.

Name, residence, and design.	No.	Date.	Official Gazette. Vol.	Page.
Hoag, Andrew H. (See Hardy, Emile, assignor.)				
Hobbs, Tracy D., Kalkaska, Mich. Lace or ribbon holder	31,523	Sept. 19	88	2233
Hochster, Albert. (See Schneider, John, Jr., assignor.)				
Hodge, Charles J., Houghton, Mich. Frame for supporting ore or mineral washing jig-screens	29,929	Jan. 3	86	172
Hodge, Charles J., Houghton, Mich. Frame for supporting ore or mineral washing jig-screens	29,930	Jan. 3	86	172
Hodge, Charles J., Houghton, Mich. Frame for supporting ore or mineral washing jig-screens	29,931	Jan. 3	86	172
Hodge, Charles J., Houghton, Mich. Frame for supporting ore or mineral washing jig-screens	29,932	Jan. 3	86	172
Hodge, Charles J., Houghton, Mich. Frame for supporting ore or mineral washing jig-screens	29,933	Jan. 3	86	172
Hodge, Charles J., Houghton, Mich. Frame for supporting ore or mineral washing jig-screens	29,934	Jan. 3	86	172
Hodge, Charles J., Houghton, Mich. Screen-supporting frame for mineral or ore washing jigs	30,106	Jan. 31	86	790
Hodgson, Lavinia S., Emporia, Kans. Ankle attachment for overshoes	30,863	May 23	87	1390
Hoffman, Frank C., Somerville, N. J. Puzzle box or case	31,264	July 18	88	539
Hoffstetter, Charles H., Erie, Pa. Heating-stove	31,511	Sept. 12	88	2061
Hofmann, Heinrich, Mount Clemens, Mich. Wire basket	30,979	June 13	87	1946
Hogan, Daniel, New York, N. Y. Feeding or invalid cup	31,230	July 18	88	533
Hogland, Frank G., Rockford, Ill. Base-plate extension for sewing-machines	31,594	Oct. 3	89	181
Hogue, Josiah A., Arcadia, Fla. Hanger for quilting-frames	31,976	Dec. 12	89	2253
Hoke, Jacob F., Jr., Sullivan, Ind. Brush-head	30,092	Jan. 31	86	788
Hoke, Jacob F., Jr., Sullivan, Ind. Brush-head	30,728	May 9	87	1064
Holden, Charles R., Ardmore, Ind. Ter. Steam-table	31,757	Oct. 31	89	910
Holden, George P., Kingston, N. Y. Bicycle-saddle spring	31,006	June 13	87	1951
Hollaway, James M. (See Watkins, James T., assignor.)				
Hollingshead, Richard M., Camden, N. J. Box-lid	30,161	Feb. 7	86	991
Holmberg, John A., and F. H. Duncan, Kansas City, Mo. Chimney cowl or cap	30,284	Feb. 28	86	1491
Holman & Co., A. J. (See Isbister, William H., assignor.)				
Holmes, Frank G., Pawtucket, assignor to Howard Sterling Company, Providence, R. I. Handle for spoons, &c	31,068	June 27	87	2309
Holt, Duane F., Nashua, N. H. Kitchen-table	31,722	Oct. 24	89	700
Homan, William C., assignor to Edward Miller & Company, Meriden, Conn. Shade-holder	30,100	Jan. 31	86	789
Homan, William C., assignor to Edward Miller & Company, Meriden, Conn. Hanging lamp	30,725	May 9	87	1064
Homan, William C., assignor to Edward Miller & Company, Meriden, Conn. Bicycle-lamp	31,145	July 4	88	182
Hood & Co., John. (See Scholl, Frederick F., assignor.)				
Hood, William M., *et al.* (See Martin, James M., assignor.)				
Hood, William P., *et al.* (See Martin, James M., assignor.)				
Hopkins, Cabel B., assignor to Enterprise Manufacturing Company of Pennsylvania, Philadelphia, Pa. Perforated plate for food-cutters	31,680	Oct. 17	89	511
Hopkins, Robert G., Somerville, assignor to Carter's Ink Company, Boston, Mass. Bottle	30,173	Feb. 14	86	1156
Horn, William O., New York, N. Y. Neckwear-retainer	31,727	Oct. 24	89	701
Horne, James H., assignor to Barney & Smith Car Company, Dayton, Ohio. Ceiling for cars	32,033	Dec. 26	89	2643
Horner, Firman R., *et al.* (See Miller, John D., assignor.)				
Horning, William, Johnstown, N. Y. Thill-coupling spring	30,203	Feb. 14	86	1161
Horton, Louis R., assignor to J. B. & S. M. Knowles Company, Providence, R. I. Handle for spoons, forks, or similar articles	31,517	Sept. 19	88	2232
Hough, David L., assignor to A. W. Buel and United Company, New York, N. Y. Channel-bar for tunnel or similar casings	31,371	Aug. 8	88	1148
Hourd, Arthur E., London, Canada. Game board	30,396	Mar. 28	86	2156
Hovey, Sumner A., Stoneham, Mass. Wick-trimmer	30,566	Apr. 18	87	503
Howard, Andrew, Wilkinsburg, Pa. Chimney	32,029	Dec. 26	89	2642
Howard, Laclede J., St. Louis, Mo. Fire-plug box	30,738	May 9	87	1066
Howard, Laclede J., St. Louis, Mo. Fire-plug box	30,739	May 9	87	1066
Howard Sterling Company. (See Holmes, Frank G., assignor.)				
Howarth, Dennis, Chester, Pa. Textile fabric	30,927	May 30	87	1601
Howarth, Dennis, Chester, Pa. Textile fabric	30,928	May 30	87	1601
Howarth, Dennis, Chester, Pa. Textile fabric	30,929	May 30	87	1601
Howe, Daniel, Salem, N. H. Horseshoe	30,966	June 6	87	1775
Howe, Lucian F., New York, N. Y., assignor to Stewart, Howe & May Company, of New Jersey. Skirt-protector	30,920	May 30	87	1600
Howle, John W., assignor of one-half to C. W. Garner, Searcy, Ark. Cooking-pan	31,784	Nov. 7	89	1131
Hoxie, Gilbert H. (See Phillips, Elwood C., assignor.)				
Hoyt, George B., assignor to National Computing Scale Company, Cleveland, Ohio. Face-plate for scales	30,724	May 9	87	1063
Hubbell, Grace W., Buffalo, N. Y. Badge	30,357	Mar. 21	86	1974
Hubbell, Grace W., Buffalo, N. Y. Badge	31,113	July 4	88	177
Huber, Otto, New York, N. Y., assignor to Eagle Pencil Company, of New York. Penholder	31,222	July 18	88	532
Huber, William G., Middleport, Ohio. Tread for pneumatic tires	31,404	Aug. 15	88	1325
Hubert, Conrad, New York, N. Y. Lamp-body	31,711	Oct. 24	89	698
Hudgin, Louis, Lochiel, Ariz. Ter. Standard for copy-holders	31,854	Nov. 21	89	1658
Huenefeld, Ernst H., Cincinnati, Ohio. Heating-stove	30,963	June 6	87	1775
Huenefeld, Ernst H., Cincinnati, Ohio. Heating-stove	31,013	June 13	87	1952
Huenefeld, Ernst H., Cincinnati, Ohio. Heating-stove	31,014	June 13	87	1952
Huenefeld, Ernst H., Cincinnati, Ohio. Heating-stove	31,015	June 13	87	1952
Huestis, Frederick W., Boston, Mass. Tire for wheels	30,416	Mar. 28	86	2160
Hufeland, Philip, New York, N. Y. Memorandum-book cover	30,873	May 30	87	1593
Hufschmidt, Charles W., Prairie du Chien, Wis. Book-back	31,674	Oct. 17	89	511
Huggins, Albert H., Clinton, Wis. Checkrein-holder	30,536	Apr. 11	87	351
Hughes, Henry E., Pawtucket, R. I. Spindle-lock	30,793	May 16	87	1223
Hull, Randolph P., Norwalk, Ohio. Umbrella-tip	31,240	July 18	88	535
Hullhorst, William G., assignor to Ransom & Randolph Company, Toledo, Ohio. Dental cabinet	29,996	Jan. 10	86	338
Hunsinger, John, Jr., Secor, Ill. Wedge	31,975	Dec. 12	89	2253
Hunt, Henry S., Cato, N. Y. Cream-separator	29,941	Jan. 3	86	174
Hunt, Henry S., Cato, N. Y. Aerator for cream-separators	30,014	Jan. 17	86	480
Huntington, Arthur S. (See Huntington, Charles S. and A. S.)				
Huntington, Charles S. and A. S., Omaha, Nebr. Legging	30,703	May 2	87	885
Hunton, Robert W. (See Mills and Hunton.)				
Hurd, George B., New York, N. Y. Stationery-box	31,627	Oct. 10	89	342
Huss, William C., Cincinnati, Ohio. Wall-fixture for counters	30,960	June 6	87	1774
Hussey, Charles A., assignor, by mesne assignments, to Cycle Spring-Spoke Company, New York, N. Y. Spoke for vehicle-wheels	30,729	May 9	87	1064
Hutchison, James H., London, England. Font of printing-type	31,216	July 11	88	381
Hutchison, John A., Cambridge, assignor to Merrimac Mattress Manufacturing Company, Boston, Mass. Mattress-frame	30,375	Mar. 21	86	1976
Hyde, David B., assignor to Safety Emery Wheel Company, Springfield, Ohio. Emery-grinder frame	30,495	Apr. 4	87	172
Hynson, Montrose P., St. Louis, Mo. Stove	30,142	Feb. 7	86	987

Alphabetical list of patentees of designs—Continued.

Name, residence, and design.	No.	Date.	Official Gazette. Vol.	Page.
Independent Manufacturing Company. (See Stewart, Robert A., assignor.)				
International Incandescent Light Company. (See Hamrick, Harry M., assignor.)				
Inventors' Manufacturing Association. (See Butcher, Fred, assignor.)				
Irgens, Louis S., Valley City, N. D. Stovepipe-drum	31,870	Nov. 21	89	1661
Irvine, John F., Houston, assignor of one-third to W. F. Irvine, Ada, Tex. Link for clothes-lines	31,747	Oct. 31	89	909
Irvine, William F. (See Irvine, John F., assignor.)				
Irving, Frank P. (See Wale, George, assignor.)				
Irwin, Robert W. (See Gohlke and Irwin.)				
Isbister, William H., assignor to A. J. Holman & Co., Philadelphia, Pa. Mounting for book or album covers	31,849	Nov. 21	89	1657
Isley, Edward J. (See Chouffet and Isley.)				
J. B. & S. M. Knowles Company. (See Horton, Louis R., assignor.)				
J. & E. Stevens Company. (See Bailey, Charles A., assignor.)				
J. L. Mott Iron Works. (See Lloyd, William H., assignor.)				
J. L. Mott Iron Works. (See Peet, William C., assignor.)				
Jackes-Evans Manufacturing Company. (See Evans, Thomas S., assignor.)				
Jackson, Arthur J., Toronto, Canada. Back-plate for suspenders	30,718	May 9	87	1063
Jackson, Calvin, Reading, Pa. Circular-cutting tool	31,753	Oct. 31	89	910
Jackson, Calvin, Reading, Pa. Metal-cutting tool	31,789	Nov. 7	89	1131
Jackson, Calvin, Reading, Pa. Boring-bar	31,827	Nov. 14	89	1333
Jackson, Calvin, Reading, Pa. Tool-holder for metal-working lathes	31,863	Nov. 21	89	1659
Jackson, Calvin, Philadelphia, Pa. Screw-driver handle	32,013	Dec. 19	89	2454
Jackson, Claude D., Amarillo, Tex. Bridle-bit	31,040	June 20	87	2110
Jacob, Himan, New York, N. Y. Bifurcated garment	31,270	July 18	88	540
Jacobs, Jacob, New York, N. Y. Lens or glass for gratings	30,144	Feb. 7	86	987
Jacobs, Jacob, New York, N. Y. Lens or glass for gratings	30,145	Feb. 7	86	988
Jacobs, Jeanette, Boston, Mass. Chopping-knife	31,436	Aug. 22	88	1518
Jacobs, William B., New York, N. Y. Glass or light	30,000	Jan. 10	86	338
Jacobs, William B., New York, N. Y. Glass or light	30,001	Jan. 10	86	338
Jacobs, William B., New York, N. Y. Glass or light	30,002	Jan. 10	86	339
Jaeger, Herman J., assignor to American Miniature and Decorative Lamp Company, New York, N. Y. Incandescent electric lamp	31,317	Aug. 1	88	939
James E. Blake Company. (See Laurin, Joseph F., assignor.)				
James E. Blake Company. (See Saart, William H., assignor.)				
Jameson, William A., Niagara Falls, N. Y. Handle for spoons, forks, or similar articles	30,454	Apr. 4	87	165
Jameson, William A., Niagara Falls, N. Y. Ladle or similar article	30,648	May 2	87	876
Jameson, William A., Niagara Falls, N. Y. Spoon	30,649	May 2	87	876
Jaques, Frank F., Chicago, Ill. Dispensing-front for grocers' cabinets	30,325	Mar. 7	86	1630
Jaques, Martin A., London, England. Hand-stamp	31,743	Oct. 31	89	908
Jenkins, Alfred B., West Orange, N. J. Valve-stem	30,782	May 16	87	1221
Jennings Brothers Manufacturing Company. (See Mosman, Charles F., assignor.)				
Jennings, Erwin M., and C. F. Mosman, Bridgeport, Conn. Clock-case	30,984	June 13	87	1947
Jennings, Erwin M., and C. F. Mosman, Bridgeport, Conn. Clock-case	30,985	June 13	87	1948
Jess, Henry, and C. Christensen, Sabula, Iowa. Feeding-trough	32,018	Dec. 19	89	2455
Jewell, Arthur E. (See Frye, Charles H., assignor.)				
Johann, Charles. (See Hamlin and Johann.)				
John Somerville & Company. (See Blyth, Alexander P., assignor.)				
Johnson, Adolph B., Des Moines, Iowa. Kitchen-cabinet	30,398	Mar. 28	86	2157
Johnson, Albert A. (See Stokes and Johnson.)				
Johnson, Alfred W. (See Reeves and Johnson.)				
Johnson, Allen S., *et al.* (See Miller, John D., assignor.)				
Johnson, Frank L., McKeesport, Pa. Coat and hat hook	30,770	May 16	87	1219
Johnson, George E., New York, N. Y. Door or window securer	31,529	Sept. 19	88	2235
Johnson, Jeremiah P., Detroit, Mich. Rail	30,958	June 6	87	1774
Johnson, John C., Uniontown, Pa. Combination-tool member	31,038	June 20	87	2109
Johnson, Mary E., executrix. (See Berglund, Nils, assignor.)				
Johnson, Moses C., assignor to Helix Gear Company, Hartford, Conn. Bicycle-frame	31,319	Aug. 1	88	939
Johnson, Moses C., assignor to Helix Gear Company, Hartford, Conn. Bicycle-frame	31,320	Aug. 1	88	939
Johnson, Moses C., assignor to Helix Gear Company, Hartford, Conn. Gearing-cover for vehicle-frames	31,321	Aug. 1	88	940
Johnson, Moses C., assignor to Helix Gear Company, Hartford, Conn. Gearing-cover for vehicle-frames	31,322	Aug. 1	88	940
Johnson, Moses C., assignor to Helix Gear Company, Hartford, Conn. Gearing-cover for vehicle-frames	31,323	Aug. 1	88	940
Johnson, Moses C., assignor to Helix Gear Company, Hartford, Conn. Gearing-cover for vehicle-frames	31,324	Aug. 1	88	940
Johnson, Moses C., assignor to Helix Gear Company, Hartford, Conn. Gearing-cover for vehicle-frames	31,325	Aug. 1	88	940
Johnson, Robert L., Hanley, England. Cover-dish	31,782	Nov. 7	89	1131
Johnston, Albert W., New York, N. Y., assignor to S. S. White Dental Manufacturing Company, Philadelphia, Pa. Tool-handle	31,825	Nov. 14	89	1333
Johnston, Frank D., Massillon, Ohio. Hose-clamp member	31,688	Oct. 17	89	512
Johnstone, Helen P., Glen Ridge, N. J., assignor to Cheney Brothers, Manchester, Conn. Textile fabric	31,457	Aug. 22	88	1522
Jones, Corry, New York, N. Y. Pincushion	30,705	May 2	87	885
Jones, Horace D., Cincinnati, assignor of one-half to F. Snodgrass, Delaware, Ohio. Hat-holder	31,481	Aug. 29	88	1699
Jones, John W., Hale, Mo. Stove-leg	31,376	Aug. 8	88	1149
Jones, John W., Salubria, Idaho. Car-door hinge	32,031	Dec. 26	89	2643
Jones, John W., Salubria, Idaho. Barn-door hinge	32,032	Dec. 26	89	2643
Jones, Joseph W., New York, N. Y. Frame for graphophones	31,921	Dec. 5	89	2055
Jones, Lois M. (See Moulton and Jones.)				
Jones, Richard W., Syracuse, N. Y. Harness-plate	30,592	Apr. 18	87	508
Jones, Samuel H., assignor of two-thirds to W. M. Finn, Scranton, and J. B. Shannon, Carbondale, Pa. Filtering-faucet body	31,824	Nov. 14	89	1332
Joseph Lucas & Son Company. (See Rockwell, Albert F., assignor.)				
Joyce, Frank I., Dayton, Ohio. Lifting-jack stand	30,199	Feb. 14	86	1161
Judkins, Edward S., East Providence, R. I. Show-case	30,579	Apr. 18	87	506
Judson, Fenton E. (See Pardee and Judson.)				
Kahn & Bros., F. & L. (See Kahn, Lazard, assignor.)				
Kahn, Herman, Troy, N. Y. Lock-bar for covers	30,411	Mar. 28	86	2159
Kahn, Lazard, assignor to F. & L. Kahn & Bros., Hamilton, Ohio. Gas heating-stove	30,060	Jan. 24	86	625
Kaiser, Charles R., Rockport, Ind. Chair seat and back	31,313	Aug. 1	88	938
Kaler, Joseph V., Columbus, Ohio. Picture-hook	30,719	May 9	87	1063

Alphabetical list of patentees of designs—Continued.

Name, residence, and design.	No.	Date.	Official Gazette. Vol.	Page.
Karnes, Leonadus E., Springdale, Ark. Clothes-pin	31,290	July 25	88	711
Kastor, Adolph, New York, N. Y. Knife-handle	31,298	Aug. 1	88	936
Kaufmann, Max W., assignor to L. W. Levy & Co., New York, N. Y. Eyeglass-guard	31,883	Nov. 28	89	1851
Keane, John A., New York, N. Y. Brush-holder	32,012	Dec. 19	89	2454
Kearns-Gorsuch Bottle Company. (See Hess, Charles H., assignor.)				
Keating, John H., Chicago, Ill. Abdominal belt	30,123	Jan. 31	86	793
Keating, Robert M., Springfield, Mass. Bicycle-frame	31,646	Oct. 10	89	345
Keen, Joseph S., Jr. (See Rulon and Keen.)				
Kees, Johann G., Nebraska City, Nebr. Corn-husker pad	30,337	Mar. 14	86	1797
Kegans, John H., Foncine, Tex. Plowshare	31,490	Sept. 5	88	1892
Keller, Sidney A., New York, N. Y. Handle for button-hooks, &c	31,546	Sept. 26	88	2402
Keller, Sidney A., New York, N. Y. Handle for button-hooks, &c	31,547	Sept. 26	88	2403
Keller, Thomas C., Dixon, Ill. Eaves-trough screen	30,107	Jan. 31	86	790
Kelley, Edward S., Colorado Springs, Colo. Game-board	30,640	Apr. 25	87	690
Kelly, Charles, Passaic, N. J. Acetylene-gas bicycle-lamp	30,666	May 2	87	878
Kelly, Edmund J., New York, N. Y. Brush body and handle	31,122	July 4	88	178
Kelly, Erastus P., Alexander, Tex. Tire for vehicle-wheels	31,250	July 18	88	537
Kelly, John, Chicago, Ill. Shower-bath ring	30,185	Feb. 14	86	1158
Kelly, John B., Portland, Oreg., assignor of one-half to C. L. Van Buskirk, Lodi, Cal. Mat	31,881	Nov. 21	89	1663
Kennedy, John W., assignor to Sill Stove Works, Rochester, N. Y. Fire-pot lining-section	30,317	Mar. 7	86	1628
Kennedy, Thomas R. (See King and Kennedy.)				
Kennedy, Thomas R., and E. J. King, assignors to Co-Operative Foundry Company, Rochester, N. Y. Stove	31,605	Oct. 3	89	183
Kennedy, Thomas R., and E. J. King, assignors to Co-Operative Foundry Company, Rochester, N. Y. Stove or range	31,606	Oct. 3	89	183
Kenney, David T., North Plainfield, assignor to S. L. Schoonmaker, Plainfield, N. J. Valve-body	31,715	Oct. 24	89	698
Kent, Elizabeth, *et al.* (See Kent, William J., assignor.)				
Kent, William J., assignor to R. R. Bell and E. Kent, New York, N. Y. Hoof-pad	31,642	Oct. 10	89	345
Kentucky Stove Company. (See Thiem, Rudolph, assignor.)				
Kenyon, Bertrand P., assignor to Michigan Vapor Stove Company, Grand Rapids, Mich. Caster-pintle	31,793	Nov. 7	89	1132
Kerker, John A., Buffalo, N. Y. Badge or button	30,975	June 13	87	1946
Kimes, Hugh W., assignor to Stilwell-Bierce & Smith-Vaile Company, Dayton, Ohio. Double-acting triplex-pump housing	30,636	Apr. 25	87	689
Kinard, Henry A., Ringgold, La. Show-case wheel	30,740	May 9	87	1066
Kincade, George P. (See Poteet, Adolphus E., assignor.)				
King, Edward J. (See Kennedy and King.)				
King, Edward J., and T. R. Kennedy, assignors to Co-Operative Foundry Company, Rochester, N. Y. Cooking-stove	30,742	May 9	87	1067
King, Josiah B., Toronto, Canada. Badge	29,958	Jan. 10	86	332
Kingsbery, Edwin P., Valdosta, Ga. Hail-rack	32,043	Dec. 26	89	2645
Kingsbury, Harry T., Keene, N. H. Blank for toy-car bodies	30,155	Feb. 7	86	990
Kingsbury, Harry T., Keene, N. H. Toy car	30,156	Feb. 7	86	990
Kingsbury, Harry T., Keene, N. H. Toy-car bottom plate	30,157	Feb. 7	86	990
Kingsbury, Harry T., Keene, N. H. Toy-car body	30,377	Mar. 21	86	1976
Kingsbury, Harry T., Keene, N. H. Roof-blank for toy cars	31,099	June 27	87	2313
Kingsbury, Harry T., Keene, N. H. Side plate for toy cars	31,100	June 27	87	2313
Kingsbury, Harry T., Keene, N. H. Toy-car bottom plate	31,101	June 27	87	2313
Kingsbury, Harry T., Keene, N. H. End plate for toy coal-cars	31,102	June 27	87	2314
Kingsbury, Harry T., Keene, N. H. End blank for toy cars	31,103	June 27	87	2314
Kingsbury, Harry T., Keene, N. H. Toy-car roof	31,420	Aug. 15	88	1327
Kingsland, Henry P., New York, N. Y. Slipper	31,422	Aug. 15	88	1328
Kingston, Calvin D. (See Wilkinson and Kingston.)				
Kinports, Henry M., Boston, Mass. Ratan or wicker chair	29,995	Jan. 10	86	337
Kip, Frederic E. (See Baker and Kip.)				
Kirberg, Jakob E., Philadelphia, Pa., assignor to Hensel, Colladay Company, of Pennsylvania. Trimming	30,748	May 9	87	1068
Kirkpatrick, Arthur, Grand Rapids, Mich. Chair	31,513	Sept. 12	88	2062
Kirkwood, Charles A., Chicago, Ill. Tooth-powder and brush holder	30,560	Apr. 18	87	502
Kitchen, James T., Rushville, Ind. Furniture-leg	31,289	July 25	88	711
Kitselman, Alva L., Ridgeville, Ind. Wire fence	31,092	June 27	87	2312
Kittredge, Arthur M., assignor to Barney & Smith Car Company, Dayton, Ohio. Stand for car-seats	30,957	June 6	87	1774
Klahn, Emil, West Hoboken, N. J. Pedal	30,351	Mar. 14	86	1800
Kleiber, John C., *et al.* (See Christy, Thomas J., assignor.)				
Klein, Charles W., Beaver Falls, Pa. Glass receptacle	31,885	Nov. 28	89	1851
Klein, Joseph. (See Schlageter and Klein.)				
Kline, John A., assignor to Reading Stove Works, Orr, Painter & Co., Reading, Pa. Heater	30,858	May 23	87	1389
Kline, John A., assignor to Reading Stove Works, Orr, Painter & Co., Reading, Pa. Heater	31,477	Aug. 29	88	1698
Kline, John A., assignor to Reading Stove Works, Orr, Painter & Co., Reading, Pa. Heater base-section	31,869	Nov. 21	89	1661
Kling, Peter M., St. Louis, Mo. Hand-rail for car-seats	31,314	Aug. 1	88	939
Knadler, John M., and W. B. Lucas, Louisville, Ky. Bottle	30,474	Apr. 4	87	168
Knapp, Edward J., and A. C. Wilmot, assignors to Adams & Westlake Company, Chicago, Ill. Finial for bed-pillars	31,559	Sept. 26	88	2405
Knapp, Edward J., and A. C. Wilmot, assignors to Adams & Westlake Company, Chicago, Ill. Frame for bed ends	31,651	Oct. 10	89	346
Knepper, Herman, New York, N. Y. Clasp-body	31,939	Dec. 5	89	2058
Knipple, William W., Elwin, Ill. Holdback	31,979	Dec. 12	89	2253
Knoll, Jonas L., Lebanon, Pa. Bicycle-frame	29,944	Jan. 3	86	175
Knoll, Jonas L., Lebanon, Pa. Bicycle-frame	29,945	Jan. 3	86	175
Knoll, Jonas L., Lebanon, Pa. Bicycle-frame	31,448	Aug. 22	88	1520
Knowles, George E., assignor to American Mutoscope Company, New York, N. Y. Picture-exhibiting-machine case	30,180	Feb. 14	86	1157
Knowles, Horace G., Wilmington, Del. Hand-truck	31,647	Oct. 10	89	345
Knox, Irvin. (See McAleese and Knox.)				
Koch, George W. (See Eschemann, William, assignor.)				
Koch, Gustave, assignor to H. C. Blye, New York, N. Y. Bottle-stopper extractor	31,598	Aug. 15	88	1324
Koehn, Henry, Sheboygan, Wis. Bent-wood chair-seat	30,400	Mar. 28	86	2157
Koehne, Ira C., *et al.* (See Fleming and Lyon, assignors.)				
Koehne, Ira C., Dayton, Ohio. Scale-lever	30,886	May 30	87	1595
Koehne, Ira C., Dayton, Ohio. Scale-lever	30,887	May 30	87	1595
Koehne, Ira C., Dayton, Ohio. Base-frame for scales	31,922	Dec. 5	89	2055
Kohlmetz, George W., Cleveland, Ohio. Stove	31,012	June 13	87	1952
Kohn, Alfred A., Montgomery, Ala. Shoe-heel	31,330	Aug. 1	88	941
Kopp, George, Cleveland, Ohio. Pastry-cabinet frame	30,798	May 16	87	1223

Alphabetical list of patentees of designs—Continued.

Name, residence, and design.	No.	Date.	Official Gazette. Vol.	Page.
Krantz, Hubert, New York, N. Y. Molding for electrical conductors	31,193	July 11	88	377
Kratz, William, Philadelphia, Pa. Heel-plate	30,162	Feb. 7	86	991
Kratz, William, Philadelphia, Pa. Heel-plate	30,163	Feb. 7	86	991
Kratz, William, Philadelphia, Pa. Heel-plate	30,164	Feb. 7	86	991
Kratz, William, Philadelphia, Pa. Heel-plate	30,294	Feb. 28	86	1492
Krause, Lou. (See Krause, Richard and L.)				
Krause, Richard and L., New York, N. Y. Textile fabric	30,554	Apr. 11	87	353
Kraver, Solomon K., Medina, assignor of one-half to A. S. Seiberling, Cleveland, Ohio. Fence-post	30,795	May 16	87	1223
Krementz & Co. (See Grasmuk, Henry L., assignor.)				
Kremer, William H., Canton, Ill. Butter-jar	30,087	Jan. 31	86	787
Kremer, William H., Canton, Ill. Jar-cover	30,265	Feb. 28	86	1488
Kronenberger, Ferdinand, New York, N. Y. Ticket-blank	31,378	Aug. 8	88	1149
Kronkosky, Albert, San Antonio, Tex. Bottle	32,027	Dec. 26	89	2642
Kruttschnitt, Gustav A., Newark, N. J. Memorandum-book cover	30,602	Apr. 25	87	683
Kruttschnitt, Gustav A., Newark, N. J. Card-case	30,603	Apr. 25	87	683
Kruttschnitt, Gustav A., Newark, N. J. Sign-plate	30,626	Apr. 25	87	687
Kruttschnitt, Gustav A., Newark, N. J. Sign-plate	30,627	Apr. 25	87	687
Kruttschnitt, Gustav A., Newark, N. J. Sign-plate, &c	30,773	May 16	87	1220
Kruttschnitt, Gustav A., Newark, N. J. Sign-plate, &c	30,774	May 16	87	1220
Kruttschnitt, Gustav A., Newark, N. J. Memorandum-book cover	31,075	June 27	87	2310
Kruttschnitt, Gustav A., Newark, N. J. Sign-plate or similar article	31,206	July 11	88	379
Kruttschnitt, Gustav A., Newark, N. J. Sign-plate or similar article	31,207	July 11	88	379
Kruttschnitt, Gustav A., Newark, N. J. Sign-plate or similar article	31,628	Oct. 10	89	342
Kruttschnitt, Gustav A., Newark, N. J. Sign-plate or similar article	31,629	Oct. 10	89	342
Kuehn, Louis, La Crosse, Wis. Rain-water cut-off	31,835	Nov. 14	89	1334
Kughler, Thomas A., New York, N. Y. Puzzle-board	32,049	Dec. 26	89	2646
Kulman, Oscar S., Savannah, Ga. Broom-cover	31,530	Sept. 19	88	2235
Kursheedt Manufacturing Company. (See Taylor, George H., assignor.)				
Kursheedt Manufacturing Company. (See Waitzfelder, Albert S., assignor.)				
La Dow, Charles, Albany, N. Y. Plowshare	30,848	May 23	87	1388
La Dow, Charles, assignor to Self-Sharpening Plow Company, Albany, N. Y. Plowshare-pattern	31,943	Dec. 5	89	2059
La Monda, Aid C., Dayton, Ohio. Game-board	31,656	Oct. 10	89	347
La Pierre, Frank H., East Orange, N. J. Brush-back or similar article	30,044	Jan. 24	86	623
La Pierre, Frank H., East Orange, N. J. Back for brushes or similar articles	31,735	Oct. 31	89	907
La Pierre, Frank H., East Orange, N. J. Back for brushes or similar articles	31,736	Oct. 31	89	907
La Prelle, John, Austin, Tex. Staple	30,896	May 30	87	1596
La Veine, Edward N., Kansas City, Mo. Cuff-holder	30,389	Mar. 28	86	2155
La Veine, Edward N., Kansas City, Mo. Rubber-dam clamp	30,883	May 30	87	1595
La Veine, Edward N., Kansas City, Mo. Garment-supporter	30,918	May 30	87	1600
Ladd, Henry H., Harvard, Ill. Chimney-hole cap	30,905	May 30	87	1598
Ladouceur, Evarice, and N. E. H. Ferland, Manchester, N. H. Sink-scraper	31,936	Dec. 5	89	2058
Lamb Manufacturing Company. (See Hadley, George W., assignor.)				
Lamb Manufacturing Company. (See Smith, Lewis T., assignor.)				
Lancaster, James H., New York, N. Y. Cycle-lamp	31,318	Aug. 1	88	939
Landers, Frary & Clark. (See Munson, Samuel R., assignor.)				
Lane Brothers Company. (See Lane, William J., assignor.)				
Lane, John H. (See Dwyer and Lane.)				
Lane, William J., assignor to Lane Brothers Company, Poughkeepsie, N. Y. Door-plate for door-hangers	31,930	Dec. 5	89	2057
Laney, Sylvester C., Pittsburg, Pa. Railway-rail	31,249	July 18	88	537
Lang, Hannah, New York, N. Y. Cover for hot-water bags	31,623	Oct. 10	89	341
Lanier, Lamar B., Dublin, Ga., assignor to C. R. Dilzer, New Smyrna, Fla. Penholder	30,130	Feb. 7	86	985
Lanning, William E., La Porte, Iowa. Staple-pulling implement	30,323	Mar. 7	86	1629
Lannon, Owen, Lee, Mass. Pipe-wrench handle	31,141	July 4	88	181
Lannon, Owen, Lee, Mass. Pipe-wrench jaw	31,142	July 4	88	182
Lantz, William C., South Bend, Ind. Suppository	31,133	July 4	88	180
Large, Samuel J., assignor to Bristol Brass and Clock Company, Bristol, Conn. Spoon or fork handle	31,428	Aug. 22	88	1517
Larsen, Charl P., Paul's Valley, Ind. Ter. Harness-hook	32,038	Dec. 26	89	2644
Larsen, William M., Decorah, Iowa. Member for match-lighters	30,591	Apr. 18	87	508
Laurin, Joseph F., assignor to James E. Blake Company, Attleborough, Mass. Handle for spoons, forks, &c	30,169	Feb. 14	86	1156
Law, Oliver G., Findlay, Ohio. School waste-bag	30,459	Apr. 4	87	166
Lawler, James J., Mount Vernon, N. Y. Air-chamber	31,191	July 11	88	376
Lawrence, Samuel M. (See Case, Henry M., assignor.)				
Lawson, Henry S., Jersey City, assignor to Pantasote Leather Company, Passaic, N. J. Textile fabric	31,962	Dec. 5	89	2063
Le Vino, Benjamin, New York, N. Y. Base and casing for portable telephones, &c	30,794	May 16	87	1223
Leach, Fred C., Marion, Ohio. Member for collar-button necktie-fasteners	31,304	Aug. 1	88	937
Lecloux, Matthew, Bayonne, N. J. Game-board	31,908	Nov. 28	89	1855
Lee, Fred E. (See Beckwith, Arthur K., assignor.)				
Lee, Fred E., Dowagiac, Mich. Stove fender or rail	30,507	Apr. 4	87	174
Lee, Ralph W. (See Watson, James A., assignor.)				
Lefferts, Marshall C., assignor to Celluloid Company, New York, N. Y. Razor-handle, &c	30,588	Apr. 18	87	508
Lefferts, Marshall C., assignor to Celluloid Company, New York, N. Y. Razor-handle, &c	30,589	Apr. 18	87	508
Leforestier, Alexandre, Philadelphia, Pa. Horn	30,473	Apr. 4	87	168
Lehman, Otto A., Hoboken, N. J. Porte-monnaie or card-case	30,170	Feb. 14	86	1156
Lehman, Otto A., Hoboken, N. J. Shopping-bag	31,053	June 20	87	2111
Lehmann, Charles F., New York, N. Y. Helmet	30,702	May 2	87	885
Lemaire, Timothy, assignor of one-half to G. H. Bell, Troy, N. Y. Frame for clothes-line holders	31,792	Nov. 7	89	1132
Lemieux, Fred. (See Wall and Lemieux.)				
Lenhart, Philip F., New York, N. Y. Tile	31,610	Oct. 3	89	184
Levy & Co., L. W. (See Kaufmann, Max W., assignor.)				
Levy, Emanuel M., Buffalo, N. Y. Badge	30,601	Apr. 25	87	683
Levy, Isaac, Cleveland, Ohio. Faucet-body	30,893	May 30	87	1596
Levy, Isaac, Cleveland, Ohio. Faucet-body	31,467	Aug. 29	88	1696
Levy, Solomon M., Cleveland, Ohio. Curling-iron member	31,971	Dec. 12	89	2252
Lewald, Frank, Chicago, Ill. Collar-buttoner and nail-cutter	31,349	Aug. 8	88	1143
Lewis, Caroline L., and C. E. Mixer, Boston, Mass. Clasp member	30,948	June 6	87	1772
Lewis, Caroline L., and C. E. Mixer, Boston, Mass. Clasp member	30,949	June 6	87	1772
Lewis, Thomas T., Philadelphia, Pa. Battery-plate	30,909	May 30	87	1598
Libby, Albert E., Houlton, Me. Game-board	31,907	Nov. 28	89	1855
Liberty Bell Company. (See Rockwell, Edward D., assignor.)				
Lieber, Frank J., Hawley, Pa. Plumber's tool	30,486	Apr. 4	87	170

Alphabetical list of patentees of designs—Continued.

Name, residence, and design.	No.	Date.	Official Gazette. Vol.	Page.
Liggett, Frank S., and G. J. E. Mayer, Allegheny, Pa. Checker-board	30,869	May 23	87	1391
Liggins, Ephraim, Walsall, England. Trough for harness-saddles	31,097	June 27	87	2313
Lightfoot, Martha M., Pleasant Plains, Ill. Body member for clothes-line props	30,137	Feb. 7	86	986
Lighthall, Almerin H., assignor to H. A. Maurer, New York, N. Y. Bucket or vane for water-wheels	31,192	July 11	88	377
Lindemeyr, Philip, Baltimore, Md., assignor to American Stopper Company, New York, N. Y. Vessel-cap	30,765	May 16	87	1218
Lindemeyr, Philip, Baltimore, Md., assignor to American Stopper Company, New York, N. Y. Vessel-cap	30,766	May 16	87	1218
Lindsley, Elmer, U. S. Army. Pocket-knife	31,173	July 11	88	373
Lindsley, Rachel, assignor to H. D. Payn, Washington, D. C. Brush	30,663	May 2	87	878
Lipman, Morris H., New York, N. Y. Hook for shoe-laces	30,301	Feb. 28	86	1493
Lipper, Benjamin, Philadelphia, Pa. Skirt-binding	31,729	Oct. 24	89	701
Lipper, Harry, *et al.* (See Greenberg, Maurice, assignor.)				
Lipper, Harry M., Philadelphia, Pa. Braid and ruffle	30,042	Jan. 17	86	485
Lissauer & Co. (See Mirabeau, Marcel M., assignor.)				
Little, Arthur, Swampscott, Mass. Stock	31,021	June 13	87	1953
Littlehale, Cora N., El Paso, Tex. Flower-holder for personal wear	30,653	May 2	87	876
Liverpool, William A., Mullica Hill, N. J. Garden-tool	31,039	June 20	87	2109
Lloyd, William H., Boston, Mass., assignor to J. L. Mott Iron Works, New York, N. Y. Basin-slab	32,047	Dec. 26	89	2646
Lobdell, Alonzo, Racine, Wis. Harness-loop	30,098	Jan. 31	86	789
Lobeck, Henry C., assignor of one-half to C. W. McElwain, Lake City, Minn. Tub and wash-board clamp	31,555	Sept. 26	88	2404
Locke, Joseph, Baldwin, assignor of one-half to J. H. Phillips, Pittsburg, Pa. Plate or pane of glass	31,761	Oct. 31	89	911
Locke, Joseph, Baldwin, assignor of one-half to J. H. Phillips, Pittsburg, Pa. Plate or pane of glass	31,762	Oct. 31	89	911
Locke, Joseph, Baldwin, assignor of one-half to J. H. Phillips, Pittsburg, Pa. Plate or pane of glass	31,763	Oct. 31	89	911
Locke, Joseph, Baldwin, assignor of one-half to J. H. Phillips, Pittsburg, Pa. Plate or pane of glass	31,764	Oct. 31	89	911
Locke, Joseph, Baldwin, assignor of one-half to J. H. Phillips, Pittsburg, Pa. Plate or pane of glass	31,765	Oct. 31	89	911
Locke Steel Belt Company. (See Locke, Sylvanus D., assignor.)				
Locke, Sylvanus D., Hoosic Falls, assignor to Locke Steel Belt Company, New York, N. Y. Chain-link	30,362	Mar. 21	86	1974
Locke, Sylvanus D., Hoosic Falls, assignor to Locke Steel Belt Company, New York, N. Y. Chain-link	30,363	Mar. 21	86	1974
Lockwood, Rhodes. (See Pickthall, Richard E., assignor.)				
Loeb, Joseph, *et al.* (See Greenberg, Maurice, assignor.)				
Loeb, Joseph, Philadelphia, Pa. Skirt-protector	30,124	Jan. 31	86	793
Loeblein, John M., *et al.* (See Christy, Thomas J., assignor.)				
Loetschert, Alphons, Höhr, Germany. Pitcher or tankard	30,978	June 13	87	1946
Lonergan, James J., Cleveland, Ohio. Catch-basin	30,054	Jan. 24	86	624
Long, David D., Russellville, Ark. Stove-grate	30,597	Apr. 18	87	509
Longman, Albertus A., assignor to T. J. Farrell, Dayton, W. and J. Bott, Columbus, Ohio. Lever	30,239	Feb. 21	86	1315
Longman, Albertus A., assignor to T. J. Farrell, Dayton, W. and J. Bott, Columbus, Ohio. Game-table	30,380	Mar. 21	86	1977
Longman, Albertus A., assignor to T. J. Farrell, Dayton, W. and J. Bott, Columbus, Ohio. Game-table top	30,468	Apr. 4	87	167
Loos, John, Freeport, Ill. Frame for ball-casters	31,597	Oct. 3	89	182
Lopp, William H., Washington, D. C. Tea-cup	31,967	Dec. 12	89	2251
Loring, George, Bar Harbor, Me. Chair	31,875	Nov. 21	89	1662
Love, William, Bryn Mawr, Pa. Pipe	31,429	Aug. 22	88	1517
Loveridge, Edward C. (See Buchheit and Loveridge.)				
Low, Abbot A., New York, N. Y. Bottle	31,179	July 11	88	374
Low, Abbot A., New York, N. Y. Bottle	31,180	July 11	88	374
Low, Abbot A., New York, N. Y. Bottle	31,235	July 18	88	534
Lowe, Frank L., Orting, Wash. Shaft-iron	31,149	July 4	88	183
Lowrey, William W., New York, N. Y. Glass bottle	30,760	May 16	87	1217
Lowrey, William W., New York, N. Y. Glass stopper for bottles	30,832	May 23	87	1386
Lowrey, William W., New York, N. Y. Glass stopper for bottles	30,833	May 23	87	1386
Lubin, Siegmund, and S. Dryfoos, Philadelphia, Pa. Prism-plate	30,471	Apr. 4	87	168
Lucas, William B. (See Knadler and Lucas.)				
Lummis, Eliza, New York, N. Y. Medal or similar article	30,752	May 16	87	1216
Lundell, Robert, assignor of two-thirds to Sprague Electric Company, New York, N. Y. Frame for electric-fan motors	31,369	Aug. 8	88	1147
Lunt, Emma O., Dover, N. H. Clothes-pin	30,186	Feb. 14	86	1158
Luttman, Pauline, Adamsford, Pa. Member for garment-fasteners	31,577	Oct. 3	89	179
Lutz, Simon M., Bedford, Pa. Game-board	29,999	Jan. 10	86	338
Luxfer Prism Patents Company. (See Soper, Frank C., assignor.)				
Lyon, Joseph. (See Fleming and Lyon.)				
Lyons, Albert J. (See Morton and Lyons.)				
Lytle, Albert E., assignor of one-half to N. G. Barrett, Chicago, Ill. Vapor-burner	31,713	Oct. 24	89	698
Mabee, Leonia, St. Louis, Mo. Skirt-protector	31,272	July 18	88	541
MacDonall, Angus, St. Louis, Mo., assignor to American Type Founders' Company, Jersey City, N. J. Font of type	31,215	July 11	88	381
MacKenzie, James S., North Bend, Ohio. Heater	30,143	Feb. 7	86	987
Macdonald, Neil. (See Romsey, Joseph H., assignor.)				
Macey, Fred, Grand Rapids, Mich. Garment-hook	30,464	Apr. 4	87	167
Mack, Frank, New York, N. Y. Hat-lining	31,423	Aug. 15	88	1328
Macphail, James, Blue Island, assignor to Plano Manufacturing Company, Chicago, Ill. Belt-buckler	30,488	Apr. 4	87	170
Macphail, James, Blue Island, assignor to Plano Manufacturing Company, Chicago, Ill. Link	30,489	Apr. 4	87	171
Macy, Jethro L., Des Moines, Iowa. Moisture-tank for incubators, &c	30,900	May 30	87	1597
Maddock, Thomas, *et al.* (See Weihman, Henry A., assignor.)				
Magee, Frank A., Wenham, assignor to Magee Furnace Company, Boston, Mass. Stove	31,512	Sept. 12	88	2062
Magee, Frank A., Wenham, assignor to Magee Furnace Company, Boston, Mass. Stove	31,871	Nov. 21	89	1661
Magee Furnace Company. (See Magee, Frank A., assignor.)				
Magee Furnace Company. (See Page, William H., assignor.)				
Magee, Walter C., New York, assignor to S. Sanford & Sons, Amsterdam, N. Y. Carpeting	31,166	July 4	88	186
Magee, Walter C., New York, assignor to S. Sanford & Sons, Amsterdam, N. Y. Carpeting	31,334	Aug. 1	88	942
Magic Light Company. (See Gillett, Clarence R., assignor.)				
Mahan, Frank M., Chicago, Ill. Campaign-badge	31,573	Oct. 3	89	178
Malinoski, Emil, Nanticoke, Pa. Socket for tool-handles	30,891	May 30	87	1596

Alphabetical list of patentees of designs—Continued.

Name, residence, and design.	No.	Date.	Official Gazette. Vol.	Page.
Mallett, Daniel T. (See Creveling, Warren S., assignor.)				
Malluk, Najeeb, New York, N. Y. Mirror-frame	30,330	Mar. 14	86	1796
Malmberg, Peter A., Freistatt, Mo. Member for pairs of tongs	31,746	Oct. 31	89	909
Malpass, George, Philadelphia, Pa. Pen	31,498	Sept. 12	88	2059
Malpass, George, Philadelphia, Pa. Pen	31,519	Sept. 19	88	2233
Malpass, George, Philadelphia, Pa. Pen	31,668	Oct. 17	89	510
Malpass, George, Philadelphia, Pa. Pen	31,669	Oct. 17	89	510
Manchester, Silas H., assignor to Fessenden & Co., Providence, R. I. Handle for spoons, forks, &c	30,306	Mar. 7	86	1627
Manchester, William H. (See Campbell, Ernest W., assignor.)				
Mandt, Targe G., Stoughton, Wis. Bolster-stake for vehicles	30,369	Mar. 21	86	1975
Mann, Henry, Milwaukee, Wis. Hoop for barrels, &c	30,338	Mar. 14	86	1797
Manning, Edward J., Bayonne, N. J., assignor to Wagner Typewriter Company, New York, N. Y. Ribbon-spool for type-writing machines	31,675	Oct. 17	89	511
Manson, Louis H., Chicago, Ill. Bicycle-frame	30,415	Mar. 28	86	2159
Manss, John A., Cincinnati, Ohio. Bootee	31,988	Dec. 12	89	2255
Marble, James L., Cooperstown, N. Y. Twine-holder for hop-poles	30,791	May 16	87	1222
Marcus, Jacob, Philadelphia, Pa. Sign-plate	31,832	Nov. 14	89	1333
Marcus, Siegfried, Philadelphia, Pa. Glass light	30,446	Mar. 28	86	2164
Marcusson, Henry H. (See Haggard and Marcusson.)				
Margolis, Abraham. (See Balogh, Otto, assignor.)				
Mark, Jacob, New York, N. Y. Tile	31,209	July 11	88	380
Markillie, David N., Basco, Ill. Hog-holder	30,999	June 13	87	1950
Marks, Albert S., Philadelphia, Pa. Box	30,980	June 13	87	1946
Marsden, James, Wigan, England. Die-plate	30,988	June 13	87	1948
Marsden, James, Wigan, England. Die-plate	30,989	June 13	87	1948
Marsh, Riverius, New Brunswick, N. J. Lamp-chimney	30,080	Jna. 31	86	785
Marsh, Riverius, New Brunswick, N. J. Lamp-chimney	30,081	Jan. 31	86	786
Marshall, Charles L., Newark, N. J. Lamp-burner	30,333	Mar. 14	86	1796
Marshall, George S., assignor to Missouri Railway Equipment Company, St. Louis, Mo. Car-door hanger	31,327	Aug. 1	88	940
Martin, Charles M. (See Bean, John C., assignor.)				
Martin, Charles M., Boston, Mass. Box-cover	30,476	Apr. 4	87	169
Martin, James M., assignor of one-half to W. P. and W. M. Hood and T. Nutt, Knoxville, Tenn. Rocker-cushion for rocking-chairs or cradles	31,493	Sept. 5	88	1892
Martin, Lucien B., assignor to Fostoria Glass Company, Moundsville, W. Va. Glass vessel	30,047	Jan. 24	86	623
Mason, James H., New York, N. Y. Electric-armature mounting	32,004	Dec. 19	89	2453
Mason, Lowell. (See Schneider, Eberhard, assignor.)				
Mason Machine Works. (See Meats and Ashworth, assignors.)				
Mather, Richard H., Windsor, Conn. Handle for bicycle handle-bars	31,257	July 18	88	538
Mathews, Elias, Denver, Colo. Dairy milk-can	31,933	Dec. 5	89	2057
Matthews, Ambrose T., assignor to Matthews Manufacturing Company, Worcester, Mass. Top or cap for knobs	30,436	Mar. 28	86	2163
Matthews, Ambrose T., assignor to Matthews Manufacturing Company, Worcester, Mass. Top or cap for knobs	30,437	Mar. 28	86	2163
Matthews, Ambrose T., assignor to Matthews Manufacturing Company, Worcester, Mass. Top or cap for knobs	30,438	Mar. 28	86	2163
Matthews, Ambrose T., assignor to Matthews Manufacturing Company, Worcester, Mass. Top or cap for knobs	30,439	Mar. 28	86	2163
Matthews Manufacturing Company. (See Matthews, Ambrose T., assignor.)				
Maurer, Frank H., New Berlin, Pa. Ribbon-case	31,482	Aug. 29	88	1699
Maurer, Henry A. (See Lighthall, Almerin H., assignor.)				
Maxim, Hiram P., Hartford, Conn., assignor to Columbia and Electric Vehicle Company, Hartford, Conn., and Jersey City, N. J. Dial for electric meters	31,919	Dec. 5	89	2055
Maxim, Hiram P., and H. M. Pope, Hartford, Conn., assignors, by mesne assignments, to Columbia and Electric Vehicle Company, Jersey City, N. J. Vehicle-frame	31,449	Aug. 22	88	1520
May, Anna K., assignor to W. H. and I. McCallum, Philadelphia, Pa. Carpet for trolley-car seats	31,879	Nov. 21	89	1662
May, Anna K., assignor to W. H. and I. McCallum, Philadelphia, Pa. Carpet for railway-car seats	31,880	Nov. 21	89	1662
Mayer, Charles J., Philadelphia, Pa. Rail-bond	32,019	Dec. 19	89	2455
Mayer, Charles J., Philadelphia, Pa. Rail-bond	32,020	Dec. 19	89	2455
Mayer, Charles J., Philadelphia, Pa. Rail-bond	32,021	Dec. 19	89	2455
Mayer, Charles J., Philadelphia, Pa. Rail-bond	32,022	Dec. 19	89	2456
Mayer, George J. E. (See Liggett and Mayer.)				
Mayers, Albert W. (See Baird, Herbert W., assignor.)				
Mayhew, Charles L., Newark, N. J. Cylinder-piece for triple-cylinder engines	31,411	Aug. 15	88	1326
Mayhew, Charles L., Newark, N. J. Cylinder-head for triple-cylinder engines	31,412	Aug. 15	88	1326
Mayo, Benjamin F., Salem, assignor to J. W. Brooks, Petersham, and J. Brooks, Cambridge, Mass., trustees. Slug-nail	30,112	Jan. 31	86	791
Mayo, Benjamin F., Salem, Mass., assignor to McKay Shoe Machinery Company, Portland, Me., and Boston, Mass. Protective slug	30,835	May 23	87	1386
Mayo, Benjamin F., Salem, Mass., assignor to McKay Shoe Machinery Company, Portland, Me., and Boston, Mass. Protective slug	30,836	May 23	87	1386
Mayo, Benjamin F., Salem, Mass., assignor to McKay Shoe Machinery Company, Portland, Me., and Boston, Mass. Protective slug	30,837	May 23	87	1387
Mayo, Benjamin F., Salem, Mass., assignor to McKay Shoe Machinery Company, Portland, Me., and Boston, Mass. Protective slug	30,838	May 23	87	1387
Mayo, Benjamin F., Salem, Mass., assignor to McKay Shoe Machinery Company, Portland, Me., and Boston, Mass. Protective slug	30,839	May 23	87	1387
Mayo, Benjamin F., Salem, Mass., assignor to McKay Shoe Machinery Company, Portland, Me., and Boston, Mass. Protective slug	30,840	May 23	87	1387
Mayo, Benjamin F., Salem, Mass., assignor to McKay Shoe Machinery Company, Portland, Me., and Boston, Mass. Protective slug	30,841	May 23	87	1387
Mayo, Benjamin F., Salem, Mass., assignor to McKay Shoe Machinery Company, Portland, Me., and Boston, Mass. Protective slug	30,842	May 23	87	1387
Mayo, Benjamin F., Salem, Mass., assignor to McKay Shoe Machinery Company, Portland, Me., and Boston, Mass. Protective slug	30,843	May 23	87	1387
McAleese, David J., and I. Knox, Philadelphia, Pa. Sleeve-holder	30,864	May 23	87	1390
McAllister, Albert H., New Albany, Miss. Nut-locking washer	31,242	July 18	88	535
McAusland, William, assignor to Reed & Barton Corporation, Taunton, Mass. Spoon	31,461	Aug. 29	88	1695
McCallister, Charles L., Mosby, Ind. Axle dust-guard	31,641	Oct. 10	89	344
McCallum, Irving, *et al.* (See May, Anno K., assignor.)				
McCallum, William H., *et al.* (See May, Anna K., assignor.)				
McCarthy, John, Plainfield, N. J., assignor to American Writing Machine Company, Ilion, N. Y. Hook for type-writer inking-ribbons	30,834	May 23	87	1386
McCarty, Eugene J., Clinton, Mass. Skirt-binding	31,024	June 13	87	1954

Alphabetical list of patentees of designs—Continued.

Name, residence, and design.	No.	Date.	Official Gazette. Vol.	Page.
McCaslin, Elton W., assignor to Morgan & Wright, Chicago, Ill. Supplemental wheel-rim	31,564	Sept. 26	88	2406
McCaslin, Elton W., assignor to Morgan & Wright, Chicago, Ill. Supplemental wheel-rim	31,565	Sept. 26	88	2406
McCaslin, Elton W., assignor to Morgan & Wright, Chicago, Ill. Supplemental wheel-rim	31,566	Sept. 26	88	2406
McClellan, William, Fort Wayne, Ind. Tail-cover	31,285	July 25	88	710
McClelland, Mary B. (See Diamond, James H., assignor.)				
McClure, Daniel D., Portland, Oreg. Abdominal bandage	31,293	July 25	88	711
McConnell, George W., Carrollton, Ohio. Bearing-plate for vehicles	30,629	Apr. 25	87	688
McCormick, John, Des Moines, Iowa. Hammer and staple and nail puller	30,445	Mar. 28	86	2164
McCormick, Thomas F., St. Paul, Minn. Tea or coffee can	30,878	May 30	87	1594
McCoy, Elijah, assignor to W. J. Walton, Detroit, Mich. Lawn-sprinkler	31,549	Sept. 26	88	2403
McCoy, Howe Company. (See Trusler, Charles L., assignor.)				
McCracken, James H., St. Louis, Mo. Corner-bead	30,302	Feb. 28	86	1493
McCurdy, William J., assignor to Neverslip Manufacturing Company, New Brunswick, N. J. Foot-guard for interfering horses	32,017	Dec. 19	89	2455
McDonald, William B., Chicago, Ill. Insulating-plate for electric lamps	31,970	Dec. 12	89	2252
McDonner, Charley, assignor of one-half to F. E. Christ, Wausaukee, Wis. Saw-blade	31,362	Aug. 8	88	1146
McDougall, Charles P., Indianapolis, Ind. Kitchen-table	30,743	May 9	87	1067
McEachern, Dougald, Erie, Canada. Saw-blade	31,308	Aug. 1	88	938
McElwain, Chipman W. (See Lobeck, Henry C., assignor.)				
McGuire, Albert W., New York, N. Y. Cover for bicycles	30,732	May 9	87	1065
McHugh, Joseph P., New York, N. Y. Holder for umbrellas, canes, or the like	31,205	July 11	88	379
McIntyre, Frank, New York, N. Y., assignor to Eagle Pencil Company, of New York. Pencil-case	31,174	July 11	88	373
McKay, John L., Chicago, Ill. Spoon-holder	31,665	Oct. 17	89	509
McKay, Robert, Detroit, Mich. Heel	30,040	Jan. 17	86	485
McKay Shoe Machinery Company. (See Mayo, Benjamin F., assignor.)				
McKinney, Max, assignor of five-eighths to C. M. Dobson, New York, N. Y. Toy	30,868	May 23	87	1391
McKinzie, Jack, Lunet, Ark. Butcher's cleaver	31,534	Sept. 19	88	2236
McLeod, Clement H. (See Withycombe, Frederick H., assignor.)				
McMaster, Edwin R., Buffalo, N. Y. Medal	31,388	Aug. 15	88	1322
McMillan, Duncan, Newark, N. J. Ash-receiver or similar article	30,936	June 6	87	1770
McNaught, George W., Glidden, Iowa. Display-stand	30,542	Apr. 11	87	351
McNeil, Archibald B., Atlantic, Iowa. Puzzle-board	30,211	Feb. 14	86	1163
McNeill, Matthew, Allegheny, Pa. Brick	31,329	Aug. 1	88	941
McPhail, James H., Nashville, Tenn. Clasp	30,177	Feb. 14	86	1157
McRae, Arthur A., assignor to McRae & Keeler, Attleborough, Mass. Stick-pin, &c	30,305	Mar. 7	86	1626
McRae & Keeler. (See McRae, Arthur A., assignor.)				
Mealy, John W., Mount Washington, Md. Handle for spoons or similar articles	31,664	Oct. 17	89	509
Mealy, John W., Baltimore, Md. Badge or similar article	31,730	Oct. 31	89	906
Meats, John T., and W. Ashworth, assignors to Mason Machine Works, Taunton, Mass. Lifting-roll holder for textile machinery	31,865	Nov. 21	89	1660
Meder, Albert F., Wheeling, W. Va. Drinking-glass	31,499	Sept. 12	88	2059
Meek, John E., New York, N. Y. Electric heater	30,598	Apr. 18	87	509
Meeker, Stephen J., Newark, N. J. Locomotive-tender coupling	30,682	May 2	87	881
Meeker, Stephen J., Newark, N. J. Bracket-plate for locomotive-tender couplings	30,683	May 2	87	881
Meinecke, Christian W., Jersey City, N. J. Nipple for nursing-bottles, &c	30,761	May 16	87	1218
Meinecke, Christian W., Jersey City, N. J. Syringe	31,033	June 20	87	2109
Meinecke, Christian W., Jersey City, N. J. Syringe	31,034	June 20	87	2109
Meinecke, Christian W., Jersey City, N. J. Cup	31,178	July 11	88	374
Meinecke, Christian W., Jersey City, N. J. Nipple	31,305	Aug. 1	88	937
Meinecke, Christian W., Jersey City, N. J. Nursing-nipple	31,857	Nov. 21	89	1659
Meinecke, Christian W., Jersey City, N. J. Nursing-nipple	31,884	Nov. 28	89	1851
Meister, John C., and J. A. Cochran, Sterling, Ill. Gas or gasolene stove ventilating-cabinet	30,547	Apr. 11	87	352
Melcher, Louis, New York, N. Y. Pouring-guide	30,235	Feb. 21	86	1315
Merkel, Hermann, St. Louis, Mo. Hydrocarbon-burner	32,002	Dec. 19	89	2453
Merrill, Samuel H., Fairmont, Minn. Scraper	30,291	Feb. 28	86	1492
Merrimac Mattress Manufacturing Company. (See Hutchison, John A., assignor.)				
Merry, John, New York, N. Y., assignor to Bigelow Carpet Company, of Massachusetts. Rug	30,383	Mar. 21	86	1976
Merry, John, New York, N. Y., assignor to Bigelow Carpet Company, of Massachusetts. Rug	30,384	Mar. 21	86	1976
Merry, John, New York, N. Y., assignor to Bigelow Carpet Company, of Massachusetts. Rug	30,510	Apr. 4	87	174
Merry, John, New York, N. Y., assignor to Bigelow Carpet Company, of Massachusetts. Rug	30,584	Apr. 18	87	508
Merry, John, New York, N. Y., assignor to Bigelow Carpet Company, of Massachusetts. Rug	30,828	May 16	87	1227
Mersfelder, William L., Cincinnati, Ohio, assignor to Star Foundry Company, Covington, Ky. Stove or range	31,414	Aug. 15	88	1326
Mertz, Raphael M., Toledo, Ohio. Lens-mounting for eyeglasses	31,131	July 4	88	180
Messler, August J. (See Smith and Messler.)				
Metcalf, Richard, assignor to Brownell & Company, Dayton, Ohio. Side hanger for steam-boilers	31,868	Nov. 21	89	1661
Metcalfe, Mary C. (See Frankenberg, Frederick G., assignor.)				
Metz, Charles H., Waltham, Mass. Gear-case member	30,409	Mar. 28	86	2159
Metz, Charles H., Waltham, Mass. Gear-case member	30,410	Mar. 28	86	2159
Metz, Charles H., Waltham, Mass. Crank-shaft member	30,537	Apr. 11	87	351
Metz, Charles H., Waltham Mass. Bicycle handle-bar	30,971	June 6	87	1776
Metz, Char es H., Waltham, Mass. Bicycle handle-bar extension	31,007	June 13	87	1951
Meyer, August W., Barrington, assignor of one-half to M. E. Covey, Elgin, Ill. Cracker-cabinet	30,426	Mar. 28	86	2161
Meyer, Ernest A. E., Watertown, N. Y. Suspensor-bandage	30,952	June 6	87	1773
Meyer, George, New York, N. Y. Interior securing-band for rubber tires	32,037	Dec. 26	89	2644
Meyer, Rudolph, New York, N. Y. Incandescent-lamp socket	32,003	Dec. 19	89	2453
Miami Cycle and Manufacturing Company. (See Burnham, Franklin P., assignor.)				
Michaels, Chauncey A., Fremont, Ohio. Game-board	31,105	June 27	87	2314
Michigan Vapor Stove Company. (See Kenyon, Bertrand P., assignor.)				
Milirons, Zachariah N. T., Cuthbert, Ga. Cotton-scraper	30,241	Feb. 21	86	1316
Millen, Thomas, New York, N. Y. Hood-reflector for street-car signs	30,058	Jan. 24	86	624
Miller, Adeline J., New York, N. Y. Penholder attachment	29,917	Jan. 3	86	170
Miller, Arthur K., New York, N. Y. Lamp	31,182	July 11	88	375
Miller, August, Taunton, Mass. Spoon or similar article	30,128	Feb. 7	86	985
Miller, Charles W., assignor to Gilliam Manufacturing Company, Canton, Ohio. Saddletree	30,276	Feb. 28	86	1489
Miller, Horace E., Newark, N. J., assignor to Celluloid Company, New York, N. Y. Mirror-frame, &c	30,393	Mar. 28	86	2156
Miller, Horatio L., Worcester, Mass. Dauber	31,973	Dec. 12	89	2252
Miller, John D., assignor of eleven-sixteenths to F. R. Horner, A. S. Johnson, and J. F. Ritter, Washington, D. C. Milk-jar	30,431	Mar. 28	86	2162
Miller, John D., assignor of eleven-sixteenths to F. R. Horner, A. S. Johnson, and J. F. Ritter, Washington, D. C. Bottle or jar top	30,434	Mar. 28	86	2163
Miller, John D., assignor of eleven-sixteenths to F. R. Horner, A. S. Johnson, and J. F. Ritter, Washington, D. C. Milk-jar	31,681	Oct. 17	89	511
Millhiser, Gustavus, assignor to Millhiser Manufacturing Company, Richmond, Va. Tobacco-package	30,662	May 2	87	878

Alphabetical list of patentees of designs—Continued.

Name, residence, and design.	No.	Date.	Official Gazette. Vol.	Page.
Millhiser Manufacturing Company. (See Millhiser, Gustavus, assignor.)				
Mills, Charles, and R. W. Hunton, assignors to Saco & Pettee Machine Shops, Newton, Mass. End clip for card-flats	30,885	May 30	87	1595
Mills, Madeleine M., New York, N. Y. Corset	31,292	July 25	88	711
Milwaukee Chair Company. (See Graves, Peter T., assignor.)				
Minard, Dayton A., Buffalo, N. Y. Fan	30,924	May 30	87	1600
Minard, Dayton A., Buffalo, N. Y. Fan	31,022	June 13	87	1953
Minneapolis Knitting Works. (See Ovenshire, Charles E., assignor.)				
Mirabeau, Marcel M., assignor to Lissauer & Co., New York, N. Y. Watch-chain and necklace	31,064	June 27	87	2308
Missouri Railway Equipment Company. (See Marshall, George S., assignor.)				
Mixer, Charles E. (See Lewis and Mixer.)				
Moller, Jacob A., Jr., New York, N. Y. Box	30,171	Feb. 14	86	1156
Montgomery, James M., New York, N. Y. Puzzle-board	31,723	Oct. 24	89	700
Moody, Walter S., Schenectady, N. Y., assignor to General Electric Company, of New York. Transformer-casing	30,151	Feb. 7	86	990
Moore, Harry S., Cleveland, Ohio. Display-card	31,212	July 11	88	380
Moore, Homer B., Fort Scott, Kans. Ribbon-spool rack	31,291	July 25	88	711
Morcom, Thomas. (See Shipman and Morcom.)				
Morgan, Abraham, Youngstown, Ohio. Lightning-arrester	30,109	Jan. 31	86	790
Morgan, Daniel M., Atheus, Tex. Tool	31,632	Oct. 10	89	343
Morgan, Jacque L., Kansas City, Mo. Insulator	30,564	Apr. 18	87	503
Morgan, Jasper E., assignor of one-half to J. R. Henley, Spiro, Ind. Ter. Shingle-gage	31,796	Nov. 7	89	1132
Morgan & Wright. (See McCaslin, Elton W., assignor.)				
Morrison, William, and J. E. Neal, Clarksville, Iowa. Bed-slat support	30,401	Mar. 28	86	2157
Morrow, Charles B., Chicago, Ill. Pedestal display-rack	30,771	May 16	87	1219
Morrow, Charles B., Chicago, Ill. Display-ring	31,156	July 4	88	184
Morse, Leslie K., Haverhill, Mass. Shoe	31,769	Oct. 31	89	912
Morse, R. F. (See Gilbert, Henry K., assignor.)				
Morton, Frederic C., Chelsea, Mass. Vehicle body and top	31,375	Aug. 8	88	1148
Morton, George, Lynn, and A. J. Lyons, Saugus, Mass. Heel-counter	29,951	Jan. 3	86	176
Mosby, Wentworth, New York, N. Y. Calendar-base	31,813	Nov. 7	89	1136
Moses, George H., *et al.* (See Roberts, Frederick R., assignor.)				
Mosman, Charles F. (See Jennings and Mosman.)				
Mosman, Charles F., assignor to Jennings Brothers Manufacturing Company, Bridgeport, Conn. Clock-case	30,983	June 13	87	1947
Moulton, Sarah A., and L. M. Jones, Grand Rapids, Mich. Skirt-supporting attachment for belts and corsets	30,125	Jan. 31	86	793
Mowery, William R., Bellevue, Ohio. Curling-iron heater	31,124	July 4	88	179
Moyer, Harvey A., Syracuse, N. Y. Body-loop for vehicles	30,418	Mar. 28	86	2160
Mugford, John, Puyallup, Wash. Drip-pan	31,556	Sept. 26	88	2404
Muncie Glass Company. (See Schilling, Frank, assignor.)				
Munson, Samuel R., assignor to Landers, Frary & Clark, New Britain, Conn. Egg-beater frame	32,028	Dec. 26	89	2642
Muntz, Oliver H., Pittsburg, Pa., assignor of one-half to J. W. Crider, Cincinnati, Ohio. Harness D	31,938	Dec. 5	89	2058
Munyon, James M., Philadelphia, Pa. Inhaler	30,312	Mar. 7	86	1628
Munyon, James M., Philadelphia, Pa. Medicament vessel for inhalers and nasal douches	30,532	Apr. 11	87	350
Murphy, Daniel H., Hartford, Conn. Glove	31,163	July 4	88	185
Murphy, Eugene J., Providence, R. I. Grave-marker	30,813	May 16	87	1226
Murphy, William P., Willowglen, Cal. Hook	30,609	Apr. 25	87	685
Murphy, William P., San José, Cal. Snap-hook	31,003	June 13	87	1950
Murphy, William P., San José, assignor of one-half to A. E. Winlow, Willowglen, Cal. Egg-holder	30,526	Apr. 11	87	349
Murray, Peter. (See Guenther and Murray.)				
Muth, Edward A., Buffalo, N. Y. Spoon	30,650	May 2	87	876
Muth, Edward A., Buffalo, N. Y. Badge	30,712	May 9	87	1062
Myers & Brother, F. E. (See Myers, Philip A., assignor.)				
Myers, Henry R., Covington, Ky. Sealing device	30,776	May 16	87	1220
Myers, Lewis C., assignor to Century Machine Company, New York, N. Y. Frame for spring-scales	30,050	Jan. 24	86	623
Myers, Philip A., Ashland, Ohio. Pump-frame	31,326	Aug. 1	88	940
Myers, Philip A., assignor to F. E. Myers & Brother, Ashland, Ohio. Pump-frame	30,103	Jan. 31	86	789
Myers, Phineas B. (See Myers, Robert L., assignor.)				
Myers, Robert L., assignor to P. B. Myers, New York, N. Y. Paper box	30,871	May 30	87	1593
Mygatt, Otis A. (See Elliott, Elias L., assignor.)				
Mygatt, Otis A., New York, N. Y. Lamp shade or globe	30,266	Feb. 28	86	1488
Myler, Larkin S. (See Berry, Steiner, and Myler.)				
Nabstedt, Jacob M., Davenport, Iowa. Badge	31,342	Aug. 8	88	1142
Nabstedt, Jacob M., Davenport, Iowa. Badge	31,778	Nov. 7	89	1130
Nash, Lewis H. South Norwalk, Conn. Water-meter	31,248	July 18	88	536
Nash, Lewis H., South Norwalk, Conn., assignor to National Meter Company, New York, N. Y. Frame for gas-engines	30,030	Jan. 17	86	483
National Biscuit Company. (See Fox, Louis, assignor.)				
National Computing Scale Company. (See Culmer, John W., assignor.)				
National Computing Scale Company. (See Hoyt, George B., assignor.)				
National Elastic Nut Company. (See Paine, Tracy L., assignor.)				
National Folding Box and Paper Company. (See Wellman, Walter M., assignor.)				
National Metal Edge Box Company. (See Wolf, Benjamin, assignor.)				
National Meter Compauy. (See Nash, Lewis H., assignor.)				
National Motor Company. (See Hennegin, Herbert H., assignor.)				
Neal, James E. (See Morrison and Neal.)				
Neverslip Manufacturing Company. (See McCurdy, William J., assignor.)				
Neverslip Manufacturing Company. (See Whitaker, Richard, assignor.)				
Newgold, Morris, New York, N. Y. Lamp-body	31,712	Oct. 24	89	698
Newman, Samuel, Cincinnati. Ohio. Bedstead	31,699	Oct. 17	89	514
Neyhart, Judson C., Williamsport, Pa. Game-board	31,019	June 13	87	1953
Niagara Radiator Company. (See Walther, Charles F., assignor.)				
Nichols, Adelbert S., New York, N. Y. Mantel	30,402	Mar. 28	86	2158
Nichols, Charles H., Dansville, N. Y. Supporting-bracket for cultivators	31,717	Oct. 24	89	699
Nichols, Henry B., and G. B. Taylor, Philadelphia, Pa. Railway-rail	30,910	May 30	87	1598
Nichols, Marcus P., St. Paul, Minn. Oar-lock	30,722	May 9	87	1063
Nieberding, Frank A. (See Cope and Bertram, assignors.)				
Nielsen, Anthon E., assignor to Sterling Supply and Manufacturing Company, New York, N. Y. Fare-register dial	30,077	Jan. 31	86	785
Nordlinger-Charlton Fireworks Company. (See Curtis, Charles L., assignor.)				
Nordlinger-Charlton Fireworks Company. (See Nordlinger, Louis, assignor.)				
Nordlinger, Louis, assignor to Nordlinger-Charlton Fireworks Company, New York, N. Y. Charge and stem for fire-crackers	30,659	May 2	87	877
Norris, John F., Lottsville, Pa. Gasket	31,451	Aug. 22	88	1521

Alphabetical list of patentees of designs—Continued.

Name, residence, and design.	No.	Date.	Official Gazette. Vol.	Page.
North & Judd Manufacturing Company. (See Smith, Clarence E., assignor.)				
North, William C., Cleveland, Ohio. Body loop-bolt	31,749	Oct. 31	89	909
Northorpe, William, assignor to F. W. O. Smith, London, England. Dial	31,502	Sept. 12	88	2060
Noyes, La Verne W., Chicago, Ill. Standard for dictionary-holders	30,311	Mar. 7	86	1627
Nutt, Thomas, *et al.* (See Martin, James M., assignor.)				
Nygaard, Andrew C., Rawlins, Wyo. Clip	30,278	Feb. 28	86	1490
O'Brien, Thomas E., Watertown, Mass. Grooving-tool blank	30,671	May 2	87	879
O'Dell, Jacob A., Cleveland, Ohio. Door-securer member	31,143	July 4	88	182
O'Marrow, Mattie, Paris, Tex. Churn-frame	30,797	May 16	87	1223
O'Neill, Arthur J., Prairie du Chien, Wis. Advertising-cabinet	31,210	July 11	88	380
O'Sullivan, Humphrey, Lowell, Mass. Sole	31,381	Aug. 8	88	1150
O'Sullivan, Humphrey, Lowell, Mass. Heel	31,382	Aug. 8	88	1150
Oberbeck, George, New York, N. Y., assignor to Eagle Pencil Company, of New York. Pen-holder	31,670	Oct. 17	89	510
Odgers, John P., assignor to A. M. Collins Manufacturing Company, Philadelphia, Pa. Photographic card-mount	30,514	Apr. 4	87	175
Odgers, John P., assignor to A. M. Collins Manufacturing Company, Philadelphia, Pa. Photographic card-mount	31,074	June 27	87	2310
Odgers, John P., assignor to A. M. Collins Manufacturing Company, Philadelphia, Pa. Photographic mat or mount	31,581	Oct. 3	89	179
Odgers, John P., assignor to A. M. Collins Manufacturing Company, Philadelphia, Pa. Card-mount	31,953	Dec. 5	89	2061
Odgers, John P., assignor to A. M. Collins Manufacturing Company, Philadelphia, Pa. Card-mount	31,954	Dec. 5	89	2062
Odgers, John P., assignor to A. M. Collins Manufacturing Company, Philadelphia, Pa. Card-mount	31,955	Dec. 5	89	2062
Oeder, Fred M., and J. E. Wright, West Bay City, Mich. Sugar-beet-thinning shoe for cultivators	30,849	May 23	87	1388
Oeder, Fred M., and J. E. Wright, West Bay City, Mich. Thinning and weeding shoe for cultivators	31,251	July 18	88	537
Oehler, William, assignor to J. B. Hall, Philadelphia, Pa. Pattern-board	30,296	Feb. 28	86	1492
Offenbacher, Emil, Markt-Redwitz, Germany. Sheet or plate glass	30,085	Jan. 31	86	786
Ogden, Harry D., Philadelphia, Pa. Bicycle crank-arm	31,008	June 13	87	1951
Ohnemus, Anton, assignor to Excelsior Stove and Manufacturing Company, Quincy, Ill. Stove	31,872	Nov. 21	89	1661
Ohnemus, Anton, assignor to Excelsior Stove and Manufacturing Company, Quincy, Ill. Stove	31,873	Nov. 21	89	1661
Ohnemus, Anton, assignor to Excelsior Stove and Manufacturing Company, Quincy, Ill. Stove	31,874	Nov. 21	89	1662
Olcott, Edwin C., Oneida Castle, N. Y. Speeding sleigh	30,272	Feb. 28	86	1489
Olmsted, Erastus R., Saratoga Springs, N. Y. Knit-slipper blank	31,023	June 13	87	1954
Olsen, Monrad J., Des Moines, Iowa. Bottle	30,134	Feb. 7	86	986
Olson, Anna, assignor to Cheney Brothers, Manchester, Conn. Handkerchief	32,051	Dec. 26	89	2647
Olson, John A., La Grange, Ill. Clothes-fork	30,796	May 16	87	1223
Ormerod, John, New York, N. Y. Hand-wheel	30,039	Jan. 17	86	484
Orton, Julius W., Coldwater, Mich. Carpet-stretcher	31,037	June 20	87	2109
Orwig, Joseph R., assignor of one-half to E. A. Sayre, Des Moines, Iowa. Frame for sewing-card perforators	30,240	Feb. 21	86	1316
Osborne, Owen, Philadelphia, Pa. Stocking	30,074	Jan. 24	86	627
Osborne, Theodore B., *et al.*, executors. (See Underhill, Francis M.)				
Ossola, Joseph, Barre, Vt. Monument	31,543	Sept. 19	88	2238
Otto, Benjamin F., Harmony, Pa. Butter mold or print	31,821	Nov. 14	89	1332
Otto, Gustav, Hoboken, assignor to himself, F. H. Bawo, New York, N. Y., H. Witte, Montclair, and C. W. F. Bawo, Newark, N. J. Dish	30,174	Feb. 14	86	1156
Ovenshire, Charles E., assignor to Minneapolis Knitting Works, Minneapolis, Minn. Child's waist	31,456	Aug. 22	88	1522
Owen H. Fay Livery Company. (See Porter, Henry C., assignor.)				
Oyer, Harry E., Buffalo, N. Y. Badge	30,932	June 6	87	1769
Ozias, Orange O., Dayton, Ohio, assignor to Computing Scale Company, of Ohio. Frame for scales	31,923	Dec. 5	89	2055
Ozias, Orange O., Dayton, Ohio, assignor to Computing Scale Company, of Ohio. Base member for scales	31,924	Dec. 5	89	2056
Ozias, Orange O., Dayton, Ohio, assignor to Computing Scale Company, of Ohio. Supporting member for scales	31,925	Dec. 5	89	2056
Ozias, Orange O., Dayton, Ohio, assignor to Computing Scale Company, of Ohio. Platform for scales	31,926	Dec. 5	89	2056
Ozias, Orange O., Dayton, Ohio, assignor to Computing Scale Company, of Ohio. Face-plate for scales	31,927	Dec. 5	89	2056
Ozias, Orange O., Dayton, Ohio, assignor to Computing Scale Company, of Ohio. Scale-support	32,006	Dec. 19	89	2453
Ozias, Orange O., Dayton, Ohio, assignor to Computing Scale Company, of Ohio. Scale-frame	32,007	Dec. 19	89	2453
Paar, Henry, assignor of two-thirds to J. L. Arnold and A. Thomas, Canton, Ohio. Horseshoe	29,938	Jan. 3	86	173
Packard, James W., Warren, Ohio. Transformer-case	30,853	May 23	87	1388
Padfield, Harry V., assignor of one-half to J. W. Cornelius, St. Louis, Mo. Nut-lock washer	30,153	Feb. 7	86	990
Padfield, Harry V., assignor of one-half to J. W. Cornelius, St. Louis, Mo. Nut-lock washer	30,154	Feb. 7	86	990
Padfield, Harry V., and J. W. Cornelius, St. Louis, Mo. Nut-lock washer	30,440	Mar. 28	86	2163
Padgitt, Tom, Waco, Tex. Saddle-pad	31,409	Aug. 15	88	1325
Page, Byrd A., Petersburg, Va. Spigot and bung-borer	30,195	Feb. 14	86	1160
Page, William H., Norwich, Conn., assignor to Magee Furnace Company, Boston, Mass. Section for hot-water heaters	30,105	Jan. 31	86	790
Paine, Tracy L., assignor to National Elastic Nut Company, Milwaukee, Wis. Split nut	30,898	May 30	87	1597
Palmer, Frederick B., Chicago, Ill. Burner for lamps	30,620	Apr. 25	87	686
Palmer, George W., New York, N. Y. Hanger for washing-machines	30,576	Apr. 18	87	506
Palmer, George W., New York, N. Y. Hanger for washing-machines	30,622	Apr. 25	87	687
Palmer, George W., New York, N. Y. Hanger for washing-machines	31,634	Oct. 10	89	343
Palmer, Isaac E., Middletown, Conn. Fabric	31,110	June 27	87	2315
Palmer, Isaac E., Middletown, Conn. Fabric	31,111	June 27	87	2315
Palmer, Isaac E., Middletown, Conn. Fabric	31,112	June 27	87	2315
Palmer, Isaac E., Mlddletown, Conn. Fabric	31,572	Sept. 26	88	2407
Pank, Christopher W., Chicago, Ill., assignor to E. & T. Fairbanks & Company, St. Johnsbury, Vt. Dial-face	31,673	Oct. 17	89	510
Pantasote Leather Company. (See Lawson, Henry S., assignor.)				
Paquette, Edward, Worcester, Mass. Brick	30,707	May 2	87	885
Pardee, William H., and F. E. Judson, Antigo, Wis. Lace-fastener	30,652	May 2	87	876
Parker, Edward L., *et al.* (See Doolittle, Irvin P., assignor.)				
Parker, William F., New York, N. Y. Corner strip or plate	30,775	May 16	87	1220
Parkhurst, Edward G., Hartford, Conn. Cartridge-clip receiver	30,586	Apr. 18	87	507
Parkhurst, Edward G., Hartford, Conn. Temporary cartridge-clip	30,587	Apr. 18	87	507
Parks, Fred B., Grand Rapids, Mich. Pneumatic-tire plug	30,198	Feb. 14	86	1160
Paroutaud, Adolphe, New York, N. Y. Covered dish	29,967	Jan. 10	86	333
Parramore, Reddin W., New York, N. Y. Hose-supporter	31,816	Nov. 7	89	1136

Alphabetical list of patentees of designs—Continued.

Name, residence, and design.	No.	Date.	Official Gazette. Vol.	Page.
Parsons, Albert R., Garden City, N. Y. Visible pitch music-staff	30,888	May 30	87	1595
Parsons, William E., Jr., New York, N. Y. Cigar-counter utensil	29,971	Jan. 10	86	334
Patee, Fred, Peoria, Ill. Sprocket-wheel	30,038	Jan. 17	86	484
Patterson, Warren C., and A. J. Flynn, Tamaqua, Pa. Railway-chair	31,638	Oct. 10	89	344
Patton, James E., Jr., Milwaukee, Wis. Color-exhibiting card	31,910	Nov. 28	89	1855
Paul, Samuel F., New York, N. Y. Fastener-stud	30,612	Apr. 25	87	685
Paul, Samuel F., New York, N. Y. Glove-fastener	31,029	June 20	87	2108
Paulson, William N., Allegheny, Pa. Field for flags	31,453	Aug. 22	88	1521
Payn, Helen D. (See Lindsley, Rachel, assignor.)				
Pearce, Henry F., Scranton, Pa. Lid for miners' lamps	30,992	June 13	87	1949
Pearl, Eugene, New York, N. Y. Nipple	31,232	July 18	88	534
Pearl, Eugene T., New York, N. Y. Syringe	30,023	Jan. 17	86	482
Pearl, William, Chicago, Ill. Seat-post for cycles	31,689	Oct. 17	89	513
Pears, George, Toronto, Canada. Range-grate	31,949	Dec. 5	89	2060
Pearson, Archibald A., Merriam, Kans. Display-casing	31,211	July 11	88	380
Peet, William C., assignor to J. L. Mott Iron Works, New York, N. Y. Porcelain lavatory	30,135	Feb. 7	86	986
Peet, William C., assignor to J. L. Mott Iron Works, New York, N. Y. Supporting-leg	31,893	Nov. 28	89	1852
Pegg, George E., Cherry Valley, N. Y. Rasp	30,996	June 13	87	1949
Pelouse Scale and Manufacturing Company. (See Triner, James M., assignor.)				
Pelouze, William N., Chicago, Ill. Scale-dial	30,399	Mar. 28	86	2157
Pendry, William A., Detroit, Mich. Grinding-wheel	30,283	Feb. 28	86	1490
Peninsular Stove Company. (See Dwyer and Lane, assignors.)				
Pennsylvania Globe Gas Light Company. (See Shaw and Sanderson, assignors.)				
Pennsylvania Steel Company. (See Pratt, Mason D., assignor.)				
Penseyres, William H., *et al.* (See Baker, Henry H., Jr., assignor.)				
Perkins, Charles G., assignor to Perkins Electric Switch Manufacturing Company, Hartford, Conn. Cover for electrical cut-outs	31,044	June 20	87	2110
Perkins, Charles G., assignor to Perkins Electric Switch Manufacturing Company, Hartford, Conn. Snap switch-button	31,410	Aug. 15	88	1325
Perkins Electric Switch Manufacturing Company. (See Perkins, Charles G., assignor.)				
Perry, Dyer W., Keene, N. H. Advertising-tag	30,753	May 16	87	1216
Perry, Joseph R., South Norwalk, Conn. Heel-plate	31,987	Dec. 12	89	2255
Peters, Heber C., assignor to F. W. Whitcher & Co., Boston, Mass. Rubber heel	30,641	Apr. 25	87	690
Peters, Otto, Sutherland, Iowa. Lamp-chimney cleaner	30,527	Apr. 11	87	349
Pfeil, Charles H., Chicago, Ill. Finger-ring	30,647	May 2	87	876
Pflueger, Ernest F., Akron, Ohio. Paper-fastener	31,842	Nov. 14	89	1335
Pfouts, Leroy S., assignor to Canton Foundry Machine Company, Canton, Ohio. Furnace	30,414	Mar. 28	86	2159
Pfouts, Leroy S., assignor to Canton Foundry Machine Company, Canton, Ohio. Furnace-casing	30,638	Apr. 25	87	689
Phelps, Byron, Seattle, Wash. Escutcheon-plate	30,113	Jan. 31	86	791
Phelps, Idelle, Denver, Colo. Eyeglass-holder	31,352	Aug. 8	88	1144
Philadelphia Hardware and Malleable Iron Works. (See Ullberg, August W., assignor.)				
Philadelphia Hardware and Malleable Iron Works. (See Vanderloo, Theodore J. A., assignor.)				
Phillips. Benjamin D. (See Randle and Phillips.)				
Phillips, Elwood C., Chicago, Ill. Vehicle-wheel	31,683	Oct. 17	89	512
Phillips, Elwood C., Chicago, Ill. Vehicle-wheel	31,684	Oct. 17	89	512
Phillips, Elwood C., assignor to G. H. Hoxie, Chicago, Ill. Hand-ripper	31,175	July 11	88	374
Phillips, George T., and D. F. Stayman, Baltimore, Md. Dessert-fork	31,575	Oct. 3	89	178
Phillips, John E., Central Square, N. Y. Cream-separator	30,244	Feb. 21	86	1316
Phillips, John H. (See Locke, Joseph, assignor.)				
Phillips, Rohert, New Albany, Ind. Sleeve-blank	31,055	June 20	87	2112
Phillips, Walter W., Swansea, England. Tip for hoots or shoes	29,950	Jan. 3	86	176
Phillips, William H., Bridgeton, N. J. Door-securer	32,030	Dec. 26	89	2642
Phillips, Winfield B., Fenton, Mich. Screen-door frame	30,544	Apr. 11	87	352
Phinney, Joseph W., Medford, Mass. Font of type	30,253	Feb. 21	86	1318
Phinney, Joseph W., Medford, Mass. Font of type	30,295	Feb. 28	86	1492
Phinney, Joseph W., Medford, Mass., assignor to American Type Founders' Company, Jersey City, N. J. Font of type	30,826	May 16	87	1228
Pickett, Edward F., Buffalo, N. Y. Nipple for hicycle-pumps	31,562	Sept. 26	88	2406
Pickhardt, Emile, Islington, Mass. Garter-cahinet	31,726	Oct. 24	89	701
Pickthall, Richard E., Somerville, assignor to R. Lockwood, Arlington, Mass. Nursing-nipple	31,677	Oct. 17	89	511
Pierce, William W., *et al.* (See Doolittle, Irvin P., assignor.)				
Pilling, Charles J., assignor to himself and G. P. Pilling, Philadelphia, Pa. Supporting memher for vaginal retracting-speculars	31,396	Aug. 15	88	1323
Pilling, Charles J., assignor to himself and G. P. Pilling, Philadelphia, Pa. Supporting-fork for vaginal specula	31,522	Sept. 19	88	2233
Pilling, George P. (See Pilling, Charles J., assignor.)				
Pincus, Walter, Philadelphia, Pa. Pen-extractor hase	30,046	Jan. 24	86	623
Pinkerton, Edward E., Sioux City, Iowa. Paper-hox hlank	31,214	July 11	88	381
Pineo, John H., Brookline, Mass. Guard-arm for hinges	30,953	June 6	87	1773
Pitciarn, William S. (See Grindley, William H., assignor.)				
Pitner, John S., Midway, Pa. Tool-handle	30,407	Mar. 28	86	2158
Plano Manufacturing Company. (See Macphail, James, assignor.)				
Plantier, Arthur, Trenton, N. J. Siphon-jet closet	31,048	June 20	87	2111
Platz, Albert, Jr., Racine, Wis. Skirt-hinding	30,585	Apr. 18	87	507
Pleasants, William H., assignor of one-half to P. J. Weipper, Victor, Colo. Miner's candlestick	30,406	Mar. 28	86	2158
Pleasants, William H., assignor of one-half to P. J. Weipper, Victor, Colo. Miner's candlestick	30,991	June 13	87	1948
Plint, John A., Butte, Mont. Can-opener	31,859	Nov. 21	89	1659
Plummer, William S., Philadelphia, Pa. Corner-bracket for hedstead-frames	31,560	Sept. 26	88	2405
Pollard, Philip D., Denison, Tex. Pocket-cuspidor	31,397	Aug. 15	88	1323
Pomeroy, John P., Great Barrington, and H. M. Van Deusen, Westfield, Mass. Whip-load	31,468	Aug. 29	88	1696
Pope, Harry M. (See Maxim and Pope.)				
Pope, Harry M., Hartford, Conn., assignor to Columhia and Electric Vehicle Company, Hartford, Conn., and Jersey City, N. J. Running-frame for vehicles	31,981	Dec. 12	89	2254
Pope, Walter H. (See Smith, Herhert W., assignor.)				
Porter, Henry C., assignor of one-half to Owen H. Fay Livery Company, Chicago, Ill. Battery-plate separator	31,315	Aug. 1	88	939
Porter, Henry C., assignor of one-half to Owen H. Fay Livery Company, Chicago, Ill. Battery-plate	31,366	Aug. 8	88	1147
Porter, Henry C., assignor of one-half to Owen H. Fay Livery Company, Chicago, Ill. Battery-plate	31,367	Aug. 8	88	1147
Porter, Henry C., assignor of one-half to Owen H. Fay Livery Company, Chicago, Ill. Battery-plate	31,368	Aug. 8	88	1147
Porter, John, Pittsburg, Pa. Spinning-top	31,655	Oct. 10	89	347
Post, John, New York, N. Y. Electromotor-casing	31,898	Nov. 28	89	1853
Poteet, Adolphus E., Sedalia, assignor of one-half to G. P. Kincade, St. Joseph, Mo. Toy top	31,654	Oct. 10	89	347
Pound, William H., Osceola, Iowa. Game-hoard	30,558	Apr. 18	87	502

Alphabetical list of patentees of designs—Continued.

Name, residence, and design.	No.	Date.	Official Gazette. Vol.	Page.
Powell, Charles A., Racine, Wis. Ironing-board	31,719	Oct. 24	89	699
Powers, Maurice L., New York, N. Y. Necktie-retainer	31,430	Aug. 22	88	1517
Pratt, Mason D., Steelton, assignor to Pennsylvania Steel Company, Philadelphia, Pa. Guard-rail for street-railway curves	30,792	May 16	87	1222
Prendergast, George F., assignor to L. M. Prendergast, New York, N. Y. Cigar and ash holder	30,605	Apr. 25	87	684
Prendergast, Lena M. (See Prendergast, George F., assignor.)				
Prentiss, Francis F., Cleveland, Ohio. Combined tap and drill	30,485	Apr. 4	87	170
Preston, Luther B. (See Spicer, Clarence E., assignor.)				
Price, William F., Reading, Pa. Vapor-burner device	31,246	July 18	88	536
Prickett, Cooper H., *et al.*, executors. (See Prickett, Edward L.)				
Prickett, Edward L., deceased; R. B. Prickett, S. A. Atkinson, and C. H. Prickett, Mount Holly, N. J., executors. Pen and pencil holder	31,458	Aug. 29	88	1695
Prickett, Guy C., Cincinnati, Ohio. Member for pairs of pliers	31,085	June 27	87	2311
Prickett, Rebecca B., *et al.*, executors. (See Prickett, Edward L.)				
Priest, Edward D., Schenectady, N. Y., assignor to General Electric Company, of New York. Core-plate for dynamo-electric machines	30,102	Jan. 31	86	789
Priest, James A., Utica, N. Y. Necktie attachment	30,457	Apr. 4	87	166
Priest, James A., Utica, N. Y. Hook-pin	30,754	May 16	87	1217
Pringle, John N., assignor of one-half to W. C. Pringle, Milledgeville, Pa. Brake-shoe holder	30,202	Feb. 14	86	1161
Pringle, William C. (See Pringle, John N., assignor.)				
Pritchard, Albert R., Rochester, N. Y. Sprayer-body	30,529	Apr. 11	87	350
Pritchard, Albert R., Rochester, N. Y. Sprayer-body	30,530	Apr. 11	87	350
Pritchard, Albert R., Rochester, N. Y. Spray-blower body	30,531	Apr. 11	87	350
Prouty, Gardner W., Littleton, assignor to W. T. C. Macallen Company, Boston, Mass. Cap for electrical insulators	30,339	Mar. 14	86	1797
Qualey, Henry N., Vermilion, S. D. Incandescent-lamp hanger	30,942	June 6	87	1771
Quin, Hugh P., Washington, Ga. Back-band hook	30,096	Jan. 31	86	788
R. Wallace & Sons Manufacturing Company. (See Wallace, Henry L., assignor.)				
Raczek, Paul, New York, N. Y. Case for coin-controlled vending-machines	31,630	Oct. 10	89	343
Radcliffe, Carlton R. (See Riotte, Carl C., assignor.)				
Radecke, Frank T., Waukegan, Ill. Pump-casing	31,533	Sept. 19	88	2235
Radford, Frank, and E. C. Boyer, Dayton, Ohio. Clamp member	29,920	Jan. 3	86	170
Radford, Frank, and E. C. Boyer, Dayton, Ohio. Clamp member	29,921	Jan. 3	86	170
Ragsdale, Lewis A., New York, N. Y. Jar	29,968	Jan. 10	86	334
Rahme, Edward C. (See Weihenmayer, Frederick, assignor.)				
Rakestraw, J. V. (See Bradley, James E., assignor.)				
Randle, William H., and B. D. Phillips, Philadelphia, Pa. Can-opener	30,502	Apr. 4	87	173
Ranney, Fred E., Greenville, Mich. Hinge	31,307	Aug. 1	88	937
Ransom & Randolph Company. (See Hullhorst, William G., assignor.)				
Rathbone, John A., Detroit, Mich. Boiler-section	30,104	Jan. 31	86	790
Rawley, Fleming C., Dublin, Ky. Meat-hook	31,631	Oct. 10	89	343
Rawlings, Thomas O., Kansas City, Mo. Combination-tool	30,892	May 30	87	1596
Ray, Sadie W., Annapolis, Md. Watch-stand for toilet-tables	31,817	Nov. 14	89	1331
Ray, Sadie W., Annapolis, Md. Rum-measure for tea-tables	31,818	Nov. 14	89	1331
Rayment, William A., assignor to Reed & Barton Corporation, Taunton, Mass. Spoon	31,459	Aug. 29	88	1695
Rayment, William A., assignor to Reed & Barton Corporation, Taunton, Mass. Spoon	31,460	Aug. 29	88	1695
Reading Standard Manufacturing Company. (See Remppis, William F., assignor.)				
Reading Stove Works, Orr, Painter & Co. (See Gobeille, Joseph L., assignor.)				
Reading Stove Works, Orr, Painter & Co. (See Kline, John A., assignor.)				
Reading Stove Works, Orr, Painter & Co. (See Shick, William H., assignor.)				
Rearick, John B., Falls Creek, Pa. Spool-holder	30,263	Feb. 28	86	1487
Reed, Arthur L., New York, N. Y. Escutcheon	31,911	Nov. 28	89	1855
Reed & Barton Corporation. (See McAusland, William, assignor.)				
Reed & Barton Corporation. (See Rayment, William A., assignor.)				
Reeves, Amos, and A. W. Johnson, Rock Falls, Ill. Member for clothes-tongs	30,479	Apr. 4	87	169
Reeves & Company. (See Clay, Harry C., assignor.)				
Reiner, Andrew L., Blue Island, Ill. Bracket for sickle-grinders	31,093	June 27	87	2312
Reinsberg, Simon, Quincy, Ill. Cream-separator	30,741	May 9	87	1067
Remppis, William F., Reading, Pa. Sprocket-wheel	31,535	Sept. 19	88	2236
Remppis, William F., assignor to Reading Standard Manufacturing Company, Reading, Pa. Crown for bicycle-forks	31,563	Sept. 26	88	2406
Rennie, John A., Philadelphia, Pa. Mat	30,710	May 9	87	1062
Reynolds, John H., Troy, N. Y. Dust and cinder guard	30,850	May 23	87	1388
Reynolds, Lewis G., Dayton, Ohio. Banner	30,751	May 16	87	1216
Rhind, Frank, assignor of one-half to Bridgeport Brass Company, Bridgeport, Conn. Tire-scraper	30,036	Jan. 17	86	484
Rhind, Frank, assignor of one-half to Bridgeport Brass Company, Bridgeport, Conn. Lamp-body	30,249	Feb. 21	86	1317
Rhind, Frank, assignor of one-half to Bridgeport Brass Company, Bridgeport, Conn. Lantern-bracket	30,491	Apr. 4	87	171
Rhind, Frank, assignor of one-half to Bridgeport Brass Company, Bridgeport, Conn. Lantern-reflector	31,587	Oct. 3	89	180
Rhind, Frank, assignor of one-half to Bridgeport Brass Company, Bridgeport, Conn. Lantern-reflector	31,588	Oct. 3	89	180
Rhoades, Lawrence M., assignor of one-half to W. M. Teter, Kansas City, Mo. Artificial-thumb-nail cord-cutter	31,130	July 4	88	180
Rhodes, James H., Chicago, Ill. Sprinkler	31,485	Sept. 5	88	1891
Rhodes, Jay B., Chicago, Ill., assignor to G. E. Guerne, Santa Rosa, Cal. Pump-casing	31,561	Sept. 26	88	2405
Rhodes, Omer J., Galveston, Tex. Lantern-box	31,744	Oct. 31	89	908
Richards, George H., Memphis, Tenn. Shoe-lace fastener	31,241	July 18	88	535
Richards, Ruben F., Robert Lee, Tex. Cotton-picker	31,151	July 4	88	183
Richardson, Dwight S., New York, N. Y. Grate-bar	29,924	Jan. 3	86	171
Richardson, Dwight S., New York, N. Y. Grate-bar	29,925	Jan. 3	86	171
Richardson, Dwight S., New York, N. Y. Grate-bar	29,926	Jan. 3	86	171
Richardson, Dwight S., New York, N. Y. Grate-bar	29,927	Jan. 3	86	171
Richardson, Dwight S., New York, N. Y. Grate-bar	29,928	Jan. 3	86	171
Richardson, Dwight S., New York, N. Y. Furnace-body	30,681	May 2	87	881
Richardson, William S., Boston, Mass., assignor to Ball and Socket Fastener Company, Boston, Mass., and Nashua, N. H. Socket member for fasteners	30,315	Mar. 7	86	1628
Righter, Guy A., Decatur, Ill. Carpet-stretcher	30,481	Apr. 4	87	169
Riley, French & Heffron. (See French, George H., assignor.)				
Rinner, Elijah C., Coshocton, Ohio. Stove-hood	30,802	May 16	87	1224
Riotte, Carl C., New York, N. Y., assignor to C. C. Riotte Company, of New York. Casing for gas-engines	30,279	Feb. 28	86	1490
Riotte, Carl C., assignor to C. R. Radcliffe, New York, N. Y. Engine-frame	31,805	Nov. 7	89	1134
Riotte, Carl C., assignor to C. R. Radcliffe, New York, N. Y. Engine-frame	31,806	Nov. 7	89	1134

Alphabetical list of patentees of designs—Continued.

Name, residence, and design.	No.	Date.	Official Gazette. Vol.	Page.
Ripley, Edwin, and J. L. Thayer, Sherman, N. Y. Game-board	31,612	Oct. 3	89	184
Ritter, Jerry F., *et al.* (See Miller, John D., assignor.)				
Ritz, August N., Milwaukee, Wis. Paste-jar	31,181	July 11	88	375
Roach, Robert N., Atlanta, Ill. Pan or plate lifter	30,316	Mar. 7	86	1628
Robbins, John C., Waltham, Mass. Bicycle clutch member	30,539	Apr. 11	87	351
Robbins, John C., Waltham, Mass. Bicycle-frame	30,733	May 9	87	1065
Roberts, Charles H. (See Alvey, Benjamin H., assignor.)				
Roberts, Fred H., Somerville, Mass. Display-box	30,010	Jan. 17	86	479
Roberts, Fred H., Somerville, Mass. Display-box	30,011	Jan. 17	86	480
Roberts, Fred H., Somerville, Mass. Confectionery-holder	30,012	Jan. 17	86	480
Roberts, Frederick R., assignor to G. F. Durgin, A. H. Robinson, and G. H. Moses, Concord, N. H. Handle for spoons or similar articles	30,043	Jan. 24	86	622
Roberts, Lewis A., Carbondale, Pa. Shoe-upper	30,382	Mar. 21	86	1977
Robertson, John H., New York, N. Y., assignor to Charles Scott Spring Company, Philadelphia, Pa. Cushion-plate for railway-rails	30,370	Mar. 21	86	1975
Robertson, William, Buffalo, N. Y. Bath-tub seat	29,993	Jan. 10	86	337
Robin, Joseph T., New York, N. Y. Show-case	30,889	May 30	87	1595
Robinson, Allan H., *et al.* (See Roberts, Frederick R., assignor.)				
Robinson, Edgar W., Indianapolis, Ind. Water-heater	30,801	May 16	87	1224
Robson, Andrew E., Pittsburg, Pa. Graining-tool	31,439	Aug. 22	88	1518
Rock, Daniel B., Fairfield, Pa. Frame for fruit-gatherers	31,152	July 4	88	183
Rock, Peter J., assignor of one-third to W. Rock, Superior, Wis. Beater or stirrer blade	30,015	Jan. 17	86	480
Rock, William. (See Rock, Peter J., assignor.)				
Rockett, Francis, Jackson, Mich. Corset	32,050	Dec. 26	89	2646
Rockwell, Albert F., assignor to Joseph Lucas & Son Company, Bristol, Conn. Bicycle-lamp	30,540	Apr. 11	87	351
Rockwell, Edward D., assignor to Liberty Bell Company, Bristol, Conn. Gong for bells	30,990	June 13	87	1948
Rockwell, Edward D., assignor to Liberty Bell Company, Bristol, Conn. Gong for bells	31,360	Aug. 8	88	1146
Rockwell, Edward D., assignor to Liberty Bell Company, Bristol, Conn. Gong for bells	31,888	Nov. 28	89	1852
Rodgers, Peter, Philadelphia, Pa. Lock-case	30,314	Mar. 7	86	1628
Roed, Olaf, Hagan, Minn. Bag-holder	30,844	May 23	87	1387
Roemer, William, Newark, N. J. Lock-hasp	31,794	Nov. 7	89	1132
Rogers, Arthur G., assignor to C. Rogers & Bros. of Meriden, Conn., Meriden, Conn. Handle for spoons, &c	31,116	July 4	88	177
Romsey, Joseph H., Somerville, assignor of one-half to N. Macdonald, Cambridge, Mass. Shoe	30,925	May 30	87	1601
Romspert, John A., Dayton, Ohio. Game-table	31,377	Aug. 8	88	1149
Root, Henry, San Francisco, Cal. Tool	31,941	Dec. 5	89	2059
Rose, Alma A., New York, N. Y. Palette for china-painting	30,172	Feb. 14	86	1156
Rose, Arthur M., Yonkers, N. Y., assignor to W. & J. Sloane, of New York. Carpeting	30,453	Mar. 28	86	2166
Rosenberg, Jacob, New York, N. Y. Liquid-receptacle	30,534	Apr. 11	87	350
Rosenblatt, Harry M., Philadelphia, Pa. Bicycle-saddle frame or base	31,598	Oct. 3	89	182
Rosenfeld, Eugene I., Baltimore, Md. Garment-supporter	30,919	May 30	87	1600
Rosenthal, Abraham L., Chicago, Ill. Book-cover blank	31,380	Aug. 8	88	1149
Rosin, Sigmund M., Philadelphia, Pa. Napkin-ring	31,850	Nov. 21	89	1657
Rosin, Sigmund M., Philadelphia, Pa. Match-box	31,851	Nov. 21	89	1658
Ross, Edward C., Newburg, N. Y. Radiator	32,040	Dec. 26	89	2644
Ross, Thomas H., Sydney, New South Wales, assignor to J. B. Duke, Somerville, N. J. Can-cap	30,764	May 16	87	1218
Roth, Henry G., Minneapolis, Minn. Display-fixture for stores	31,525	Sept. 19	88	2234
Roth, Henry G., Minneapolis, Minn. Display-fixture for stores	31,526	Sept. 19	88	2234
Roth, Henry G., Minneapolis, Minn. Display-fixture for stores	31,527	Sept. 19	88	2234
Roth, Henry G., Minneapolis, Minn. Display-fixture for stores	31,528	Sept. 19	88	2235
Rozell, Charles, Hutchinson, Kans. Crown-piece attachment	30,035	Jan. 17	86	484
Rubino, Thomas, Hazleton, Pa. Clothes-line trolley	31,554	Sept. 26	88	2404
Ruffly, Charles, Rixheim, Germany. Border for wall-paper	29,955	Jan. 3	86	177
Ruffly, Charles, Rixheim, Germany. Wall-paper	29,956	Jan. 3	86	177
Rulon, Watson B., Bordentown, N. J., and J. S. Keen, Jr., Philadelphia, Pa. Vapor generator and superheater for incandescent lamps	30,546	Apr. 11	87	352
Rumbarger, Victor E., Dayton, Ohio. Tube-expander	32,014	Dec. 19	89	2454
Rush, George W., Altoona, Pa. Shade-bracket	30,099	Jan. 31	86	789
Russ, Peter P., Org, Minn. Separator	30,789	May 16	87	1222
Russell, Charles W., Louisville, Ky. Commode-chair	29,992	Jan. 10	86	337
Russell & Erwin Manufacturing Company. (See Arnold, Owen P., assignor.)				
Russell & Erwin Manufacturing Company. (See Burgess, Charles M., assignor.)				
Russell & Erwin Manufacturing Company. (See Voight, Henry G., assignor.)				
Russell & Erwin Manufacturing Company. (See Wales, Louis H., assignor.)				
Russell, William A., Los Angeles, Cal. Badge	31,296	Aug. 1	88	936
Ryan, Edward W., Ypsilanti, Mich. Communion-cup filler	30,935	June 6	87	1770
Rystrom, Charles, Rockford, Ill. Heel for boots or shoes	31,497	Sept. 5	88	1893
S. S. White Dental Manufacturing Company. (See Browne, Arthur W., assignor.)				
S. S. White Dental Manufacturing Company. (See Johnston, Albert W., assignor.)				
Saart, William H., assignor to James E. Blake Company, Attleborough, Mass. Handle for button-hooks, &c	31,067	June 27	87	2308
Saart, William H., assignor to James E. Blake Company, Attleborough, Mass. Handle for button-hooks or similar articles	31,225	July 18	88	532
Sabold, Oliver W., Boyertown, assignor to Colebrookdale Iron Company, Pottstown, Pa. Cross-bar for sad-irons	30,961	June 6	87	1774
Sachs, Joseph, Hartford, Conn. Base for electric cut-outs	31,045	June 20	87	2110
Saco & Pettee Machine Shops. (See Mills and Hunton, assignors.)				
Safety Emery Wheel Company. (See Hyde, David B., assignor.)				
Sager, Frederick, Rochester, N. Y. Garment-hanger	30,231	Feb. 21	86	1314
Sager, Frederick, Rochester, N. Y. Match-safe	31,027	June 20	87	2108
Saint Cyr, Emil D., Jr., Chicago, Ill. Suction-cup for surgical instruments	30,951	June 6	87	1773
Sametz, Adolph, New York, N. Y. Button-holder	30,079	Jan. 31	86	785
Sample, Louis L., Shenandoah, Iowa. Directory-frame	31,076	June 27	87	2310
Sanborn, George W. and J. C., Utica, N. Y. Clothes-line post	29,940	Jan. 3	86	174
Sanborn, Joseph C. (See Sanborn, George W. and J. C.)				
Sanderson, Edward S. (See Shaw and Sanderson.)				
Sanford & Sons, Stephen. (See Cox, Wallace M., assignor.)				
Sanford & Sons, Stephen. (See Held, August E., assignor.)				
Sanford & Sons, Stephen. (See Magee, Walter C., assignor.)				
Sanford & Sons, Stephen. (See Stewart, Nelson S., assignor.)				
Sargent & Company. (See Sargent, Edward R., assignor.)				
Sargent, Edward, Jr., New Philadelphia, Ohio. Dough-board	30,397	Mar. 28	86	2157
Sargent, Edward R., assignor to Sargent & Company, New Haven, Conn. Casket-grip	30,535	Apr. 11	87	350
Sargent, Simon R., assignor to S. R. Sargent & Son, Castleton, Vt. Plow-beam	30,735	May 9	87	1065
Sargent & Son, S. R. (See Sargent, Simon R., assignor.)				
Sargent, William D., Chicago, Ill. Brake-head	31,000	June 13	87	1950

Alphabetical list of patentees of designs—Continued.

Name, residence, and design.	No.	Date.	Official Gazette. Vol.	Page.
Sayre, E. A. (See Orwig, Joseph R., assignor.)				
Scandrett, Henry V., assignor of one-half to G. H. Steele, Spearville, Kans. Bicycle handle-bar	30,821	May 16	87	1227
Schaefer, Henry A., assignor to Schaefer & Schlegel, Rochester, N. Y. Skirt-binding	31,963	Dec. 5	89	2063
Schaefer & Schlegel. (See Schaefer, Henry A., assignor.)				
Schaeffer, Hermann, New York, N. Y. Badge	31,514	Sept. 19	88	2232
Schaum, Otto W., Philadelphia, Pa. Lathe-plate	30,349	Mar. 14	86	1799
Schaum, Otto W., Philadelphia, Pa. Lathe-plate	30,350	Mar. 14	86	1800
Schaum, Otto W., Philadelphia, Pa. Shuttle	30,623	Apr. 25	87	687
Schaum, Otto W., Philadelphia, Pa. Bicycle-frame	30,820	May 16	87	1227
Schaum, William A., Baltimore, Md. Bottle-cap-reshaping die	30,048	Jan. 24	86	623
Scheffbuch, Eva M., Ridgewood Heights, N. Y. Puzzle box or case	30,159	Feb. 7	86	991
Schies, John, Anderson, Ind. Bottle	31,706	Oct. 24	89	696
Schilling, Frank, Muncie, Ind. Bottle	31,462	Aug. 29	88	1695
Schilling, Frank, Muncie, Ind., assignor to C. S. Norris & Company, New York, N. Y. Bottle	30,562	Apr. 18	87	503
Schilling, Frank, assignor to Muncie Glass Company, Muncie, Ind. Bottle	30,664	May 2	87	878
Schilling, Frank, assignor to Muncie Glass Company, Muncie, Ind. Bottle	31,500	Sept. 12	88	2059
Schlageter, Adolf, and J. Klein, Central City, Ill. Pick	30,408	Mar. 28	86	2158
Schmaltz, Bernard, Dimond, Cal. Garden-hoe	31,826	Nov. 14	89	1333
Schmidt, John J. G. C., Jersey City, N. J. Washboard	30,187	Feb. 14	86	1158
Schmitt, Charles N., Philadelphia, Pa. Window-light	30,964	June 6	87	1775
Schmitt, John, Cleveland, Ohio. Housing for gear-wheels	31,977	Dec. 12	89	2253
Schmitt, Julius E., assignor of one-third to L. J. Bjorn, Tacoma, Wash. Spoon	30,651	May 2	87	876
Schnarr, Joseph, Newark, N. J. Towel-holder, &c	30 917	May 30	87	1599
Schneider, Eberhard, assignor of one-half to L. Mason, New York, N. Y. Puzzle box or case	30,825	May 16	87	1228
Schneider, John, Jr., assignor to A. Hochster, New York, N. Y. Frame for toy trolley-cars	30,494	Apr. 4	87	171
Schneider, Louis, Mittweida, Germany. Comb-teeth-containing sheath	31,297	Aug. 1	88	936
Schofield, Albert B., New York, N. Y. Member for wire-cutters	31,862	Nov. 21	89	1659
Scholl, Frederick F., assignor to J. Hood & Co., Boston, Mass. Locking-bar and handle for vulcanizers	30,443	Mar. 28	86	2164
Schoonmaker, Sylvanus L. (See Kenney, David T., assignor.)				
Schorp, Joseph J., and G. Siglinger, St. Louis, Mo. Pad	31,455	Aug. 22	88	1521
Schrader, George H. F., New York, N. Y. Tire-valve cap	31,830	Nov. 14	89	1333
Schriver & Co., O. P. (See Cunny, Alexander D., assignor.)				
Schroeder, Conrad, Milwaukee, Wis. Cork-retaining device	31,311	Aug. 1	88	938
Schubert, Oswald W , Milwaukee, Wis. Dinner-plate	30,561	Apr. 18	87	503
Schultze, Gustav, Berkeley, Cal. Puzzle-board	31,613	Oct. 3	89	185
Schumacher Acetylite Lamp Company. (See Avery, Percy C., assignor.)				
Schwedtmann, Ferdinand, St. Louis, Mo. Converter-box	30,688	May 2	87	882
Schwedtmann, Ferdinand, St. Louis, Mo. Converter-box	30,689	May 2	87	882
Schwedtmann, Ferdinand, St. Louis, Mo. Converter-box	30,690	May 2	87	883
Schwenk, Wilhelm, New York, N. Y. Wall-bracket	31,042	June 20	87	2110
Schwerd, Albert F., and A. W. Emrick, Allegheny, Pa. Column-shaft	31,158	July 4	88	184
Schwerd, Albert F., and A. W. Emrick, Allegheny, Pa. Column-shaft	31,159	July 4	88	184
Schwerd, Albert F., and A. W. Emrick, Allegheny, Pa. Column-shaft	31,160	July 4	88	185
Scott, Ashley D., St. Louis, Mo. Electrode	31,495	Sept. 5	88	1892
Scovill Manufacturing Company. (See Shipley, Alfred J., assignor.)				
Scriven, Jeremiah A., New York, N. Y. Bifurcated nether garment	31,538	Sept. 19	88	2237
Scriven, Jeremiah A., New York, N. Y. Bifurcated nether garment	31,539	Sept. 19	88	2237
Scriven, Jeremiah A., New York, N. Y. Bifurcated nether garment	31,540	Sept. 19	88	2237
Scriven, Jeremiah A., New York, N. Y. Bifurcated nether garment	31,541	Sept. 19	88	2237
Scriven, Jeremiah A., New York, N. Y. Bifurcated nether garment	31,542	Sept. 19	88	2238
Scriven, Jeremiah A., New York, N. Y. Bifurcated nether garment	31,571	Sept. 26	88	2407
Scriven, Jeremiah A., New York, N. Y. Bifurcated nether garment	31,615	Oct. 3	89	185
Scriven, Jeremiah A., New York, N. Y. Bifurcated nether garment	31,616	Oct. 3	89	185
Scriven, Jeremiah A., New York, N. Y. Bifurcated nether garment	31,660	Oct. 10	89	348
Scriven, Jeremiah A., New York, N. Y. Bifurcated nether garment	31,661	Oct. 10	89	348
Scriven, Jeremiah A., New York, N. Y. Bifurcated nether garment	31,704	Oct. 17	89	515
Scriven, Jeremiah A., New York, N. Y. Bifurcated nether garment	31,770	Oct. 31	89	913
Scriven, Jeremiah A., New York, N. Y. Bifurcated nether garment	31,771	Oct. 31	89	913
Scriven, Jeremiah A., New York, N. Y. Bifurcated nether garment	31,772	Oct. 31	89	913
Seavey, Charles O., South Framingham, Mass. Bolt-operator and nail-set	31,001	June 13	87	1950
Seble, William T., Wyanet, Ill. Scoop	30,292	Feb. 28	86	1492
See, De Witt C., Mechanicsville, N. Y. Eyelet	30,465	Apr. 4	87	167
See, Horace, New York, N. Y. Bearing	31,829	Nov. 14	89	1333
Seiberling, Allen S. (See Kraver, Solomon K., assignor.)				
Seiffert, Herman, New York, N. Y. Picture-frame	30,133	Feb. 7	86	986
Seiler, August, New York, N. Y. Top	31,017	June 13	87	1953
Selby, Frederick, assignor to J. C. Fender, Chester, Pa. Skewback	30,565	Apr. 18	87	503
Selby, Frederick, assignor to J. C. Fender, Chester, Pa. Filling-block for fireproof floors	30,570	Apr. 18	87	504
Self-Sharpening Plow Company. (See La Dow, Charles, assignor.)				
Senderling, Martin L., Jersey City, N. J. King-bolt	30,319	Mar. 7	86	1629
Senderling, Martin L., Jersey City, N. J. Bolster-plate for vehicles	30,324	Mar. 7	86	1629
Seng Company. (See Seng, Frank J., assignor.)				
Seng, Frank J., assignor to Seng Company, Chicago, Ill. Clutch member	31,083	June 27	87	2311
Seng, Frank J., assignor to Seng Company, Chicago, Ill. Clutch member	31,190	July 11	88	376
Seng Manufacturing Company. (See Seng, Frank J., assignor.)				
Sévigné, Henri A., Boston, Mass. Hook	29,981	Jan. 10	86	336
Sewell, Atherton, Boston, Mass. Golf-tee	31,878	Nov. 21	89	1662
Shaffer, Henry E., Rochester, N. Y. Acetylene-gas burner	31,030	June 20	87	2108
Shaffer, Walter, assignor to W. M. Alling, Derby, Conn. Knitting-machine cam	31,902	Nov. 28	89	1854
Shannon, John B., *et al.* (See Jones, Samuel H., assignor.)				
Sharp, Samuel J., Wheeling, W. Va. Easel	31,452	Aug. 22	88	1521
Shaw, Arthur E., and E. S. Sanderson, Philadelphia, Pa., assignors to Pennsylvania Globe Gas Light Company, of Pennsylvania. Street-lamp	31,745	Oct. 31	89	909
Shaw, Bartlett M. (See Walker and Shaw.)				
Shaw, Henrietta C. (See Ebert and Shaw.)				
Shaw, Henrietta C., Kansas City, Mo. Pin and ring blank	30,994	June 13	87	1949
Shaw, Noah, Eau Claire, Wis. Cam	30,101	Jan. 31	86	789
Shea, Byron B., Kansas City, Mo. Menstruator	30,052	Jan. 24	86	624
Sheely, Howard H., Hutchinson, Kans. Paring-knife	30,674	May 2	87	880
Sheer, George D., Cleveland, Ohio. Fence-panel	30,372	Mar. 21	86	1976
Sheeran, John C., Pittsburg, Pa. Clothes-line holder	31,185	July 11	88	376
Shepard, Charles D., Peekskill, N. Y. Match-safe	30,982	June 13	87	1947
Sherwood, Charles K., New York, N. Y. Bottle-cap fastener	30,403	Mar. 28	86	2158
Shick, William H., assignor to Reading Stove Works, Orr, Painter & Co., Reading, Pa. Heater attachment	30,906	May 30	87	1598

Alphabetical list of patentees of designs—Continued.

Name, residence, and design.	No.	Date.	Official Gazette. Vol.	Page.
Shick, William H., assignor to Reading Stove Works, Orr, Painter & Co., Reading, Pa. Air-conduit fire-pot	31,445	Aug. 22	88	1520
Shiebler, George W., New York, N. Y. Handle for spoons, &c	30,874	May 30	87	1593
Shipley, Alfred J., assignor to Scovill Manufacturing Company, Waterbury, Conn. Trousers-hook	30,232	Feb. 21	86	1315
Shipley, Alfred J., assignor to Scovill Manufacturing Company, Waterbury, Conn. Trousers fastening-bar	30,233	Feb. 21	86	1315
Shipman, Harvey A., and T. Morcom, Baker City, Oreg. Receptacle	31,819	Nov. 14	89	1332
Shipman, John P., St. Louis, Mo. Wagon-sunshade iron	31,471	Aug. 29	88	1696
Shipman, Madison D., De Kalb, Ill. Socket member for detachable fasteners	31,350	Aug. 8	88	1143
Shipman, Madison D., De Kalb, Ill. Stud member for glove-fasteners	31,503	Sept. 12	88	2060
Showen, Maggie B., Macon, Mo. Lap-robe	31,484	Aug. 29	88	1699
Siglinger, George. (See Schorp and Siglinger.)				
Sill Stove Works. (See Beattie, Herbert W., assignor.)				
Sill Stove Works. (See Clunies, Arthur B., assignor.)				
Sill Stove Works. (See Kennedy, John W., assignor.)				
Simons, Edwin S., *et al.* (See Weihman, Henry A., assignor.)				
Simons, Frederick M., *et al.* (See Weihman, Henry A., assignor.)				
Simons, John F., *et al.* (See Weihman, Henry A., assignor.)				
Simons, John F., Philadelphia, Pa. Display-box	30,859	May 23	87	1390
Sinclair, Sydney E., and H. B. Soutter, Cedar Rapids, Iowa. Pincushion	31,301	Aug. 1	88	937
Sinclair, Sydney E., and H. B. Soutter, Cedar Rapids, Iowa. Pincushion	31,302	Aug. 1	88	937
Sipe, Aaron E., Buffalo, N. Y. Badge	30,308	Mar. 7	86	1626
Sipe & Sigler. (See Willard, Theadore A., assignor.)				
Sjöström, Paul R. G., Westfield, N. J. Game-board	30,466	Apr. 4	87	167
Skinner, Fred R., Syracuse, N. Y. Puzzle box or case	31,265	July 18	88	539
Skinner, William C., Toledo, Ohio. Range and kitchen-cabinet	31,557	Sept. 26	88	2404
Smaw, Walter H., New York, N. Y. Mandolin-body	31,918	Dec. 5	89	2054
Smith, Charles H., Boston, Mass. Ironing-board	31,756	Oct. 31	89	910
Smith, Clarence E., assignor to North & Judd Manufacturing Company, New Britain, Conn. Buckle	30,717	May 9	87	1063
Smith, De Wane B., Deerfield, N. Y. Sprayer-body	29,973	Jan. 10	86	334
Smith, De Wane B., Deerfield, N. Y. Body for bicycle-pumps	29,986	Jan. 10	86	336
Smith, De Wane B., Deerfield, N. Y. Sprayer-body	30,024	Jan. 17	86	482
Smith, De Wane B., Deerfield, N. Y. Sprayer-body	30,025	Jan. 17	86	482
Smith, De Wane B., Deerfield, N. Y. Sprayer-body	30,026	Jan. 17	86	482
Smith, De Wane B., Deerfield, N. Y. Sprayer-body	30,027	Jan. 17	86	482
Smith, De Wane B., Deerfield, N. Y. Sprayer-body	30,184	Feb. 14	86	1158
Smith, De Wane B., Deerfield, N. Y. Sprayer-body	30,293	Feb. 28	86	1492
Smith, De Wane B., Deerfield, N. Y. Atomizer-body	31,678	Oct. 17	89	511
Smith, Frank A., Galion, Ohio. Jaw for pipe-wrenches	31,940	Dec. 5	89	2058
Smith, Frank W. O. (See Northorpe, William, assignor.)				
Smith, Harry. (See Bangley, Joseph L., assignor.)				
Smith, Harry B., New York, N. Y. Box-blank	31,984	Dec. 12	89	2254
Smith, Harry F., Cincinnati, Ohio. Badge or similar article	30,387	Mar. 28	86	2155
Smith, Herbert W., Somerville, assignor of one-half to W. H. Pope, Boston, Mass. Trolley-pole	30,548	Apr. 11	87	352
Smith, James M., Villa Park, Cal. Pan or kettle scraper	31,935	Dec. 5	89	2058
Smith, John, Birmingham, England. Chain-link	30,242	Feb. 21	86	1316
Smith, John H., Washington, D. C. Cooking utensil	31,043	June 20	87	2110
Smith, Joseph E., and A. J. Messler, Buffalo, N. Y. Badge or similar article	30,388	Mar. 28	86	2155
Smith, Landon P., New York, N. Y. Member for pairs of pliers	30,237	Feb. 21	86	1315
Smith, Lewis T., Chicopee, assignor to Lamb Manufacturing Company, Chicopee Falls, Mass. Bicycle-frame	30,070	Jan. 24	86	626
Smith, Martin, Cleveland, Ohio. Tool-holding block	30,321	Mar. 7	86	1629
Smith, Mary J., New York, N. Y. Pin	31,065	June 27	87	2308
Smith, Theodore E., assignor to Spencerian Pen Company, New York, N. Y. Writing-pen	29,964	Jan. 10	86	333
Smith, Uriah, Battle Creek, Mich. Vehicle-body	30,551	Apr. 11	87	353
Smith, William H., Buffalo, N. Y. Sprocket or similar article	31,365	Aug. 8	88	1146
Smith, William J., New York, N. Y. Necktie-frame	30,176	Feb. 14	86	1157
Smith, William O., Medford, Mass. Wire scoop	30,890	May 30	87	1596
Smith, William T., Philadelphia, Pa. Woven fabric	30,353	Mar. 14	86	1800
Smith, William T., Philadelphia, Pa. Woven fabric	30,354	Mar. 14	86	1800
Smith, William T., Philadelphia, Pa. Woven fabric	30,355	Mar. 14	86	1801
Smith, William T., Philadelphia, Pa. Woven fabric	32,053	Dec. 26	89	2647
Smylie, Adolphe E., *et al.* (See Smylie, Charles A., assignor.)				
Smylie, Charles A., assignor to himself, Thomas H. Bauchle, and Adolphe E. Smylie, New York, N. Y. Licorice stick	31,389	Aug. 15	88	1323
Snavely, Samuel K., assignor to J. R. Bricker & Co., Lititz, Pa. Cigar	31,847	Nov. 14	89	1336
Snodgrass, F. (See Jones, Horace D., assignor.)				
Snow, John F., Brockton, Mass. Fountain-brush	30,262	Feb. 28	86	1487
Snow, Levi T., New Haven, Conn. Case for food-choppers	30,580	Apr. 18	87	506
Snyder, William U., Glen Elder, Kans. Watering-trough	31,286	July 25	88	710
Sohni, Otto, Scranton, Pa. Die or cutter for punches	30,236	Feb. 21	86	1315
Solberg, Haldor K., Clarkfield, Minn. Medal or similar article	30,643	May 2	87	875
Sondheim & Magnus. (See Astarita, Raffaello, assignor.)				
Soper, Frank C., assignor to Luxfer Prism Patents Company, Chicago, Ill. Vault-light	30,472	Apr. 4	87	168
Souders, Irvin C., Dayton, Ohio. Bottle	31,622	Oct. 10	89	341
Soult, Ellis A., Fredonia, Pa. Checkrein-hook	31,440	Aug. 22	88	1519
Southworth, Ralph W. E., Flint, Mich. Advertising-bookcase	30,139	Feb. 7	86	986
Soutter, Henry B. (See Sinclair and Soutter.)				
Speakman, Charles A., assignor to American Lithographic Company, New York, N. Y. Label	30,711	May 9	87	1062
Spear, John G., Winsted, Conn., assignor of one-half to J. Hartness, Springfield, Vt. Stud-bolt	31,685	Oct. 17	89	512
Spencer, George G., Chicago, Ill. Bicycle seat-post	31,828	Nov. 14	89	1333
Spencer, Jesse P., Frost, Tex. Water-grate for cooking-stoves	31,011	June 13	87	1951
Spencerian Pen Company. (See Smith, Theodore E., assignor.)				
Sperry, Elmer A., assignor to Cleveland Machine Screw Company, Cleveland, Ohio. Vehicle-body	31,804	Nov. 7	89	1134
Spicer, Clarence E., Titusville, assignor of three-fourths to L. B. Preston, Steuben, Pa. Wheel-spoke	31,447	Aug. 22	88	1520
Spindle, Joseph C., Lorotto, Va. Millstone	30,814	May 16	87	1226
Sponsel, Charles W., Hartford, Conn. Nozzle for hardening apparatus	30,345	Mar. 14	86	1799
Sponsel, Charles W., Hartford, Conn. Nozzle for hardening apparatus	30,346	Mar. 14	86	1799
Sprague Electric Company. (See Lundell, Robert, assignor.)				
Spratling, Roper C., Gold Hill, Ala. Churn	31,822	Nov. 14	89	1332
Spring, John, New York, N. Y., assignor to W. & J. Sloane, of New York. Carpet-border	30,257	Feb. 21	86	1318
Spring, John, New York, N. Y., assignor to W. & J. Sloane, of New York. Carpeting	30,356	Mar. 14	86	1801

Alphabetical list of patentees of designs—Continued.

Name, residence, and design.	No.	Date.	Official Gazette. Vol.	Page.
Spring, John, New York, N. Y., assignor to Bigelow Carpet Company, of Massachusetts. Carpet	30,642	Apr. 25	87	690
Squier, George A., Cleveland, Ohio. Mounting for eyeglasses	30,604	Apr. 25	87	684
Srofe, Jesse H., Kokomo, Ind. Wire fence	30,420	Mar. 28	86	2160
Srofe, Jesse H., Kokomo, Ind. Wire fence	30,421	Mar. 28	86	2160
Srofe, Jesse H., Kokomo, Ind. Wire fence	31,474	Aug. 29	88	1697
Srofe, Jesse H., Kokomo, Ind. Wire fence	31,475	Aug. 29	88	1697
Srofe, Jesse H., Kokomo, Ind. Wire fence	31,476	Aug. 29	88	1697
Srofe, Jesse H., Kokomo, Ind. Fence	31,602	Oct. 3	89	183
Srofe, Jesse H., Kokomo, Ind. Wire fence	31,687	Oct. 17	89	512
Srofe, Jesse H., assignor of two-thirds to J. E. Frederick and H. Ward, Kokomo, Ind. Wire fence	30,912	May 30	87	1599
Srofe, Jesse H., Kokomo, Ind., assignor of two-thirds to J. E. Frederich and H. Ward. Wire fence	31,150	July 4	88	183
Stackhouse, Thomas B. (See Straughan, Henry H., assignor.)				
Staley, Raleigh H., Springfield, Ill. Die for forming edges of bricks	30,571	Apr. 18	87	505
Stanley, Francis E. and F. O., Newton, Mass., assignors to A. L. Barber, New York, N. Y. Driving-axle for locomobiles	31,946	Dec. 5	89	2060
Stanley, Francis E. and F. O., Newton, Mass., assignors to A. L. Barber, New York, N. Y. Steering-axle for locomobiles	31,947	Dec. 5	89	2060
Stanley, Francis E. and F. O., Newton, Mass., assignors to A. L. Barber, New York, N. Y. Axle-frame for locomobiles	31,948	Dec. 5	89	2060
Stanley, Freelan O. (See Stanley, Francis E. and F. O.)				
Stanley, Thomas K., St. Louis, Mo. Lace cover or spread	30,930	May 30	87	1601
Stanley, Thomas K., St. Louis, Mo. Bolster	31,652	Oct. 10	89	346
Stansfield, Flora, Yuma, Colo. Pie-printer	31,858	Nov. 21	89	1659
Star Foundry Company. (See Mersfelder, William L., assignor.)				
Stark, Perry A., Durango, Colo. Potato-digger attachment for plows	30,282	Feb. 28	86	1490
Stark, William A., and D. A. Craig, Philadelphia, Pa. Game-board	31,657	Oct. 10	89	347
Stayman, David F. (See Phillips and Stayman.)				
Stearns, Edward C., Syracuse, N. Y. Bicycle-frame	30,245	Feb. 21	86	1316
Steel Storage and Elevator Construction Company. (See Winn, William E., assignor.)				
Steele, George H. (See Scandrett, Henry V., assignor.)				
Steiner, Noah R. (See Berry, Steiner, and Myler.)				
Stephens, Benjamin F., New York, N. Y. Eye-cup	30,756	May 16	87	1217
Stephenson, Frederick W., New York, N. Y. Water-bag	31,985	Dec. 12	89	2254
Stephenson, Matilda R., Cripple Creek, Colo. Shovel	31,094	June 27	87	2313
Steppe, John P., assignor to S. Sternau & Co., New York, N. Y. Chafing-dish stand	31,666	Oct. 17	89	509
Steppe, John P., assignor to S. Sternau & Co., New York, N. Y. Water-pan for chafing-dishes	31,667	Oct. 17	89	509
Steppe, John P., assignor to S. Sternau & Co., New York, N. Y. Chafing-dish stand	31,783	Nov. 7	89	1131
Steppe, John P., assignor to S. Sternau & Co., New York, N. Y. Chafing-dish	32,026	Dec. 26	89	2642
Sterling Supply and Manufacturing Company. (See Nielsen, Anthon E., assignor.)				
Sternau & Co., S. (See Steppe, John P., assignor.)				
Sternberg, Albert F., Chicago, Ill. Clutch member	31,897	Nov. 28	89	1853
Stetler, Daniel D., Medford, Okla. Ter. Member for fence-tools	30,281	Feb. 28	86	1490
Stewart, Amelia L., Martinsburg, W. Va. Shield or protector for ladies' shirt-waists	29,952	Jan. 3	86	176
Stewart, Frank, assignor to Stockham Manufacturing Company, Chicago, Ill. Clock-frame	30,606	Apr. 25	87	684
Stewart, Frank, assignor to Stockham Manufacturing Company, Chicago, Ill. Clock-frame	30,607	Apr. 25	87	684
Stewart, Frank, assignor to Stockham Manufacturing Company, Chicago, Ill. Clock-frame	30,608	Apr. 25	87	684
Stewart, Frank, assignor to Stockham Manufacturing Company, Chicago, Ill. Table	31,696	Oct. 17	89	514
Stewart, Howe & May Company. (See Howe, Lucian F., assignor.)				
Stewart, Jonathan M., Canton, Ohio. Clothes-line-clamp frame	31,186	July 11	88	376
Stewart, Nelson S., assignor to S. Sanford & Sons, Amsterdam, N. Y. Carpeting	30,827	May 16	87	1228
Stewart, Nelson S., assignor to S. Sanford & Sons, Amsterdam, N. Y. Carpeting	31,167	July 4	88	186
Stewart, Nelson S., assignor to S. Sanford & Sons, Amsterdam, N. Y. Carpeting	31,168	July 4	88	186
Stewart, Nelson S., assignor to S. Sanford & Sons, Amsterdam, N. Y. Carpeting	31,169	July 4	88	186
Stewart, Nelson S., assignor to S. Sanford & Sons, Amsterdam, N. Y. Carpeting	31,335	Aug. 1	88	942
Stewart, Nelson S., assignor to S. Sanford & Sons, Amsterdam, N. Y. Carpeting	31,336	Aug. 1	88	942
Stewart, Nelson S., assignor to S. Sanford & Sons, Amsterdam, N. Y. Carpeting	31,337	Aug. 1	88	942
Stewart, Nelson S., assignor to S. Sanford & Sons, Amsterdam, N. Y. Carpeting	31,338	Aug. 1	88	942
Stewart, Nelson S., assignor to S. Sanford & Sons, Amsterdam, N. Y. Carpeting	31,339	Aug. 1	88	942
Stewart, Nelson S., assignor to S. Sanford & Sons, Amsterdam, N. Y. Carpeting	31,340	Aug. 1	88	942
Stewart, Nelson S., assignor to S. Sanford & Sons, Amsterdam, N. Y. Carpeting	31,341	Aug. 1	88	942
Stewart, Robert A., New York, N. Y., assignor to Independent Manufacturing Company, Chicago, Ill. Die-plate	30,049	Jan. 24	86	623
Stewart, Robert A., New York, N. Y., assignor to Independent Manufacturing Company, Chicago, Ill. Rubber-sponge cushion	30,122	Jan. 31	86	793
Stickney, Frank A., Sr., Philadelphia, Pa. Brush-bridle retainer	30,727	May 9	87	1064
Stiles, Mark D., Mount Vernon, N. Y. Mat-binder	31,165	July 4	88	186
Stilwell-Bierce & Smith-Vaile Company. (See Kimes, Hugh W., assignor.)				
Stimson, David S., Kittery, Me. Frame for window-pulleys	30,855	May 23	87	1389
Stinson, William M., Louisville, Ky. Diaper	31,570	Sept. 26	88	2407
Stockham Manufacturing Company. (See Stewart, Frank, assignor.)				
Stohr, Samuel, assignor to Wilcox & Evertsen, Meriden, Conn. Handle for spoons, forks, &c.	30,391	Mar. 28	86	2156
Stohr, Samuel, assignor to Wilcox & Evertsen, Meriden, Conn. Handle for spoons, &c.	31,516	Sept. 19	88	2232
Stokes, John H., and A. A. Johnson, Freehold, N. J. Ball-bearing hub	29,946	Jan. 3	86	175
Stone, Spencer A., Chillicothe, Mo. Sewing-machine head	30,595	Apr. 18	87	508
Story, Orville L., Somerville, Mass. Paper-cutter, &c.	30,977	June 13	87	1946
Stover, Alice M., Guthrie Centre, Iowa. Table-top	31,157	July 4	88	184
Stover, Edward C., Trenton, N. J., assignor to Trenton Potteries Company, of New Jersey. Ventilated sanitary fixture	31,090	June 27	87	2312
Stowell, Byron F. (See Van Norman and Stowell.)				
Straub, Engelbert A., Rodney, Mich. Corn-holder	31,966	Dec. 12	89	2251
Straughan, Henry H., assignor of one-half to T. B. Stackhouse, Dillon, S. C. Plow-upright	30,784	May 16	87	1221
Straus & Sons, L. (See Davies, Benjamin, assignor.)				
Straussberg, Hermann, Kansas City, Mo. Spool-thread holder	30,654	May 2	87	877
Strom, Axel A., Austin, assignor to Walmsley & Company, Chicago, Ill. Carbid-holder for acetylene-gas generators	30,204	Feb. 14	86	1161
Strom, Axel A., Austin, assignor to Walmsley & Company, Chicago, Ill. Carbid-holder for acetylene-gas generators	30,205	Feb. 14	86	1162
Strom, Axel A., Austin, assignor to Walmsley & Company, Chicago, Ill. Gas-burner	30,901	May 30	87	1597
Strugnell, James H., Toronto, Canada. Child's plate	32,025	Dec. 26	89	2641
Stuparich, Paul J., San Francisco, Cal. Photographic mount	31,213	July 11	88	380
Sumner, Arthur C., Winneconne, Wis. Rein-guard	31,470	Aug. 29	88	1696
Surghnor, Annie. (See Surghnor, Daniel H., assignor.)				
Surghnor, Daniel H., assignor to A. Surghnor, Sherman, Tex. Hame attachment	30,730	May 9	87	1065
Swalley, Henry, Milwaukee, Wis. Skeleton frame for entry-sheets	31,392	Aug. 15	88	1323
Swan, Morrison R., Manilla, Iowa. Breastpin	30,714	May 9	87	1062

Alphabetical list of patentees of designs—Continued.

Name, residence, and design.	No.	Date.	Official Gazette. Vol.	Page.
Swartz, Francis M., Newark, Ohio. Loosening-fork	31,896	Nov. 28	89	1853
Swartz, Richard, Pine Bluff, Ark. Warming vessel	30,090	Jan. 31	86	787
Swartz, Richard, Pine Bluff, Ark. Warming vessel	30,091	Jan. 31	86	787
Sweeney, Mary, Allegheny, Pa. Sad-iron	31,245	July 18	88	536
Swindell, Walter B., Baltimore, Md. Bottle	31,518	Sept. 19	88	2233
Sydeman, Abraham, Boston, Mass. Heel for boots or shoes	30,926	May 30	87	1601
Synnott, Thomas W., Wenonah, N. J. Lamp-globe	31,968	Dec. 12	89	2251
Tabken, William, Ledbetter, Tex. Fence-post	31,800	Nov. 7	89	1133
Taege, Emil, Arlington Heights, Ill. Milk-warming pan	30,503	Apr. 4	87	173
Taft, Alison W., Woodstock, Vt. Metallic railway-tie	30,490	Apr. 4	87	171
Taft, Edward L., Gardner, Mass. Water-closet seat	30,285	Feb. 28	86	1491
Taite, Benjamin G., Philadelphia, Pa. Ornamental powder-box or like article	30,226	Feb. 21	86	1314
Tarrant, William S., Seattle, Wash. Badge or similar article	31,515	Sept. 19	88	2232
Tate, James C., Kyger, Ohio. Panel for fire-escape ladders	32,036	Dec. 26	89	2643
Tate, James E., Cincinnati, Ohio. Kitchen-cabinet	31,983	Dec. 12	89	2254
Tate, Zerah H., Erlanger, Ky. Buffer-spring	31,372	Aug. 8	88	1148
Tatum, Charles A., *et al.*, executors. (See Underhill, Francis M.)				
Tatum, Charles A., New York, N. Y. Water-bottle	30,432	Mar. 28	86	2162
Tatum, Charles A., New York, N. Y. Water-bottle	30,433	Mar. 28	86	2162
Tatum, Charles A., New York, N. Y. Hot-water bottle	30,475	Apr. 4	87	168
Taussig, Emil, New York, N. Y. Tank for disinfecting fluids	30,745	May 9	87	1068
Taylor, Frank, Rochester, N. Y. Scale	30,938	June 6	87	1770
Taylor, Frank, Rochester, N. Y. Scale	30,939	June 6	87	1771
Taylor, Frank, Rochester, N. Y. Scale	30,987	June 13	87	1948
Taylor, George B. (See Nichols and Taylor.)				
Taylor, George H., assignor to Kursheedt Manufacturing Company, New York, N. Y. Plaited fabric	30,974	June 6	87	1776
Taylor, Henry H., Bridgeport, Conn. Safety-pin	31,303	Aug. 1	88	937
Taylor, John S., Claremore, Ind. Ter. Sliding jaw for pipe-wrenches	31,140	July 4	88	181
Taylor, Richard S., Buffalo, N. Y. Pen-wiper	30,557	Apr. 18	87	502
Taylor, Walter C., St. Louis, Mo. Bottle	31,127	July 4	88	179
Taylor, William, Detroit, Mich. Hinge	30,954	June 6	87	1773
Teachout, William H., assignor of one-half to O. Coons, Herkimer, N. Y. Kitchen-cabinet	31,650	Oct. 10	89	346
Templeton, William G., Colorado Springs, Colo., assignor of two-thirds to W. J. Brasfield and W. T. Adair, St. Louis, Mo. Eye	31,132	July 4	88	180
Terry, Samuel H., assignor of one-half to S. P. Galt, St. Louis, Mo. Metallic post	31,600	Oct. 3	89	182
Terry, Samuel H., assignor of one-half to S. P. Galt, St. Louis, Mo. Metallic post	31,601	Oct. 3	89	182
Teter, Walter M. (See Rhoades, Lawrence M., assignor.)				
Teter, William L. (See Heany, John A., assignor.)				
Thayer, Emily W., Shirley Center, Mass. Hose-supporter belt	31,331	Aug. 1	88	941
Thayer, Joshua L. (See Ripley and Thayer.)				
Thiem, Rudolph, Hamilton, Ohio, assignor to Kentucky Stove Company, Louisville, Ky. Cooking-stove	31,095	June 27	87	2313
Thomas, Adam, *et al.* (See Paar, Henry, assignor.)				
Thomas, Edward G., Boston, Mass. Section-liner gage	31,837	Nov. 14	89	1334
Thomas, Evalena S., Lindenwold, N. J. Tile	30,072	Jan. 24	86	627
Thomas, Evalena S., Lindenwold, N. J. Tile	31,450	Aug. 22	88	1521
Thompson, Adolphus E., Brantley, Ala. Cultivating-scraper	30,422	Mar. 28	86	2161
Thompson, Francis E. (See Young and Thompson.)				
Thompson, George L., Chicago, Ill. Front fork for velocipedes	30,071	Jan. 24	86	627
Thompson, George L., Chicago, Ill. Bicycle-frame	30,499	Apr. 4	87	172
Thompson, George L., Chicago, Ill. Bicycle-frame	30,500	Apr. 4	87	173
Thompson, George W., New York, N. Y. Cabinet	31,695	Oct. 17	89	513
Thompson, John H., Kansas City, Mo. Chest	30,477	Apr. 4	87	169
Thompson, Joseph W., Salem, Ohio, assignor to H. W. Hartman, trustee. Riveter member	31,139	July 4	88	181
Thomson, William P., Altoona, Pa. Spike-extracting implement	30,111	Jan. 31	86	791
Thost, Otto, Zwickau, Germany. Grate-bar	30,505	Apr. 4	87	173
Thost, Otto, Zwickau, Germany. Grate-bar	30,506	Apr. 4	87	173
Thrasher, Samuel P., New Haven, Conn. Clock-face	30,829	May 23	87	1386
Thurber, William H., Providence, R. I. Pocket-book	30,831	May 23	87	1386
Tiffany, Burnett Y., assignor to Tiffany & Company, New York, N. Y. Spoon or similar article	31,345	Aug. 8	88	1143
Tiffany, Burnett Y., assignor to Tiffany & Company, New York, N. Y. Spoon or similar article	31,346	Aug. 8	88	1143
Tiffany & Company. (See Tiffany, Burnett Y., assignor.)				
Tiffany Glass and Decorating Company. (See Tiffany, Louis C., assignor.)				
Tiffany, Louis C., assignor to Tiffany Glass and Decorating Company, New York, N. Y. Lamp	30,665	May 2	87	878
Timm, Charles. (See Crowther and Timm.)				
Todd, Edward, Jr., New York, N. Y. Pencil-point protector	31,073	June 27	87	2309
Todd, Edward, Jr., New York, N. Y. Tubing for pencil-barrels, &c	31,579	Oct. 3	89	179
Todd, William, Kalamazoo, Mich. Paper file or holder	29,918	Jan. 3	86	170
Tomkins, Silas P., Tilly Foster, N. Y. Safety-pin	30,131	Feb. 7	86	985
Torpey, David D., New York, N. Y. Harness-support	31,595	Oct. 3	89	182
Town, Joseph I. (See Gillespie, Frank P., assignor.)				
Towne, Henry R., New York, N. Y., assignor to Yale & Towne Manufacturing Company, Stamford, Conn. Rim latch-case	31,087	June 27	87	2311
Townsend, Edwin O., New York, N. Y. Monument	30,512	Apr. 4	87	174
Townsend, Edwin O., Zanesville, Ohio. Monument	31,882	Nov. 21	89	1663
Townsend, Samuel C., Baltimore, Md. Straw hat	31,845	Nov. 14	89	1335
Tracy, Esther J., Waverly, Ill. Heat-deflector for hot-air registers	30,059	Jan. 24	86	625
Travis, Charles L., Minneapolis, Minn. Frame-coupling for bicycles	30,118	Jan. 31	86	792
Tremble, Joseph J., Whitewood, S. D. Lacing-hook	29,919	Jan. 3	86	170
Trenton Potteries Company. (See Stover, Edward C., assignor.)				
Trimont Manufacturing Company. (See Childs, Eugene, assignor.)				
Triner, James M., assignor to Pelouse Scale and Manufacturing Company, Chicago, Ill. Scale-frame member	30,340	Mar. 14	86	1798
Tripp, Caleb B., Calico, N. C. Truck-frame	31,195	July 11	88	377
Trusler, Charles L., assignor to McCoy, Howe Company, Indianapolis, Ind. Suppository	30,699	May 2	87	884
Tucker, Charles H., St. Louis, Mo. Lead-pencil	31,072	June 27	87	2309
Turner, John J., New York, N. Y. Washer	31,081	June 27	87	2311
Turner, Samuel J., Chicago, Ill. Corner-post for bedsteads	30,343	Mar. 14	86	1798
Turner, Samuel J., Chicago, Ill. Corner-post for bedsteads	30,344	Mar. 14	86	1798
Turney Drier Company. (See Hinken and Turney, assignors.)				
Turney, John E. (See Hinken and Turney.)				
Tyler, Abel D., Jr., assignor to Tyler Hinged Last Company, Brockton, Mass. Hinge	30,020	Jan. 17	86	481
Tyler, Abel D., Jr., assignor to Tyler Hinged Last Company, Brockton, Mass. Hinge	30,021	Jan. 17	86	481
Tyler Hinged Last Company. (See Tyler, Abel D., Jr., assignor.)				
Udell, George, Providence, R. I. Doctor-blade for printing-machines	29,922	Jan. 3	86	171

Alphabetical list of patentees of designs—Continued.

Name, residence, and design.	No.	Date.	Official Gazette. Vol.	Page.
Uhry, Charles L., Newark, N. J. Necktie-holder	31,986	Dec. 12	89	2255
Uhry, Charles L., assignor to Bippart & Co., Newark, N. J. Lorgnette-case	31,672	Oct. 17	89	510
Ullberg, August W., Philadelphia, Pa., assignor to Philadelphia Hardware and Malleable Iron Works, of Pennsylvania. Face-plate for registers, &c	30,568	Apr. 18	87	504
Ullberg, August W., Philadelphia, Pa., assignor to Philadelphia Hardware and Malleable Iron Works, of Pennsylvania. Face-plate for registers, &c	30,569	Apr. 18	87	504
Ulmann, Carl J., New York, N. Y. Ornamental trimming-cord	31,614	Oct. 3	89	185
Underhill, Francis M., deceased; C. A. Tatum, T. B. Osborne, and Farmers Loan and Trust Company, executors, New York, N. Y. Atomizer-mounting	31,466	Aug. 29	88	1696
Underwood, Frank L., Vermont, Ill. Foot-stool	31,653	Oct. 10	89	346
United Company, *et al.* (See Hough, David L., assignor.)				
United States Battery Company. (See Whitney, Clinton E., assignor.)				
United States Head-Light Company. (See Wheelhouse, Sidney H., assignor.)				
Universal Time Company. (See Gillam, Manly M., assignor.)				
Updike, Nathaniel B., Lonegum, Va. Garment-hook	31,177	July 11	88	374
Urie, George M., Kansas City, Mo. Sad-iron	30,336	Mar. 14	86	1797
Valentine, James H., Chatham, N. J. Vaporizing vessel	30,880	May 30	87	1594
Valerius, Theodore L., assignor to Cornish, Curtis & Greene Manufacturing Company, Fort Atkinson, Wis. Bottle	30,533	Apr. 11	87	350
Van Buskirk, Charles L. (See Kelly, John B., assignor.)				
Van Deusen, Henry M. (See Pomeroy and Van Deusen.)				
Van Etten, Francis M., New York, N. Y. Souvenir-spoon	31,117	July 4	88	178
Van Norman, Frederick D., and B. F. Stowell, Springfield, Mass. Metal plate	30,628	Apr. 25	87	688
Van Roden, George C., assignor to J. E. Caldwell & Co., Philadelphia, Pa. Badge	31,060	June 27	87	2308
Van Winkle, Charles, Rutherford, N. J. Vegetable-masher	30,067	Jan. 24	86	626
Vanderloo, Theodore J. A., Philadelphia, Pa., assignor to Philadelphia Hardware and Malleable Iron Works, of Pennsylvania. Register or ventilator plate	31,446	Aug. 22	88	1520
Vanes, John, Brazil, Ind. Fire-box for boilers	31,010	June 13	87	1951
Vermilya, Allen G. N., assignor to Cary Manufacturing Company, New York, N. Y. Reel-frame	30,063	Jan. 24	86	625
Vetlesen, Peter J., Minneapolis, Minn. Washstand	31,096	June 27	87	2313
Vetter, William, Cincinnati, Ohio. Medal or similar article	31,964	Dec. 12	89	2251
Vogt, Albrecht, Rochester, N. Y. Dress-edging	30,165	Feb. 7	86	991
Voight, Henry, Cincinnati, Ohio. Upholstering-appliance cap	31,243	July 18	88	535
Voight, Henry G., assignor to Russell & Erwin Manufacturing Company, New Britain, Conn. Latch or lock case	30,845	May 23	87	1387
Voight, Henry G., assignor to Russell & Erwin Manufacturing Company, New Britain, Conn. Lock-case	30,894	May 30	87	1596
Voight, Henry G., assignor to Russell & Erwin Manufacturing Company, New Britain, Conn. Latch-case	31,928	Dec. 5	89	2057
Voight, Henry G., assignor to Russell & Erwin Manufacturing Company, New Britain, Conn. Keeper for locks and latches	31,929	Dec. 5	89	2057
Vrooman, Harry S., Chicago, Ill. Fire-brick	30,288	Feb. 28	86	1491
Vrooman, Harry S., Chicago, Ill. Fire-brick	30,289	Feb. 28	86	1491
W. & J. Sloane. (See Rose, Arthur M., assignor.)				
W. & J. Sloane. (See Spring, John, assignor.)				
W. T. C. Macallen Company. (See Prouty, Gardner W., assignor.)				
Waelty, Edward J., Allegheny, Pa. Railway-rail	30,911	May 30	87	1598
Waggoner, Albert E., Muskegon, Mich. Mail-bag staple	32,015	Dec. 19	89	2454
Waggoner, Edward P., Syracuse, N. Y., assignor to A. A. Griffing Iron Company, Jersey City, N. J. Boiler-plate	30,246	Feb. 21	86	1317
Waggoner, Edward P., Syracuse, N. Y., assignor to A. A. Griffing Iron Company, Jersey City, N. J. Boiler-plate	30,247	Feb. 21	86	1312
Waggoner, Edward P., Syracuse, N. Y., assignor to A. A. Griffing Iron Company, Jerrey City, N. J. Boiler-plate	30,248	Feb. 21	86	1317
Waggoner, Edward P., Syracuse, N. Y., assignor to A. A. Griffing Iron Company, Jersey City, N. J. Shell for generators	30,320	Mar. 7	86	1629
Wagner, Frank, Sidney, Iowa. Counter-mat	30,175	Feb. 14	86	1156
Wagner Typewriter Company. (See Manning, Edward J., assignor.)				
Wagor, Philo R., Springfield, Mass. Wall tie or binder	31,136	July 4	88	181
Wahlert, Henry A., St. Louis, Mo., assignor to Acme Pipe Clamp Company, of Illinois. Pipe-clamp	30,441	Mar. 28	86	2163
Wahlert, Henry A., St. Louis, Mo., assignor to Acme Pipe Clamp Company, of Illinois. Pipe-clamp	30,442	Mar. 28	86	2164
Wahlert, Henry A., St. Louis, Mo., assignor to Acme Pipe Clamp Company, of Illinois. Pipe-clamp member	30,538	Apr. 11	87	351
Wait, Henry H., assignor to Western Electric Company, Chicago, Ill. Motor-frame	30,785	May 16	87	1221
Wait, Oscar E., Springfield, Vt. Heating-drum	31,609	Oct. 3	89	184
Waite, Thresher Company. (See Crees and Court, assignors.)				
Waite, Thresher Company. (See Diacont, Frank J., assignor.)				
Waitzfelder, Albert S., assignor to Kursheedt Manufacturing Company, New York, N. Y. Braid	30,003	Jan. 10	86	339
Walden, Edwin, Lynn, Mass. Reservoir for pens	31,852	Nov. 21	89	1658
Wale, George, assignor of one-half to F. P. Irving, Troy, N. Y. Kaleidoscope-standard	30,309	Mar. 7	86	1627
Wales, Louis H., assignor to Russell & Erwin Manufacturing Company, New Britain, Conn. Padlock-case	31,624	Oct. 10	89	342
Walker, Arthur W., Malden, and B. M. Shaw, Watertown, Mass. Range	31,607	Oct. 3	89	183
Walker, Arthur W., Malden, and B. M. Shaw, Watertown, Mass. Range	31,608	Oct. 3	89	184
Walker, David, Newark, N. J. Stair-carpet fastener	30,723	May 9	87	1063
Walker, David, Newark, N. J. Stair-carpet button	31,785	Nov. 7	89	1131
Walker, Edwin, Erie, Pa. Corkscrew-head	31,505	Sept. 12	88	2060
Walker, Enos L., St. Louis, Mo. Berry-box blank	31,998	Dec. 19	89	2452
Walker, James B., Rush Springs, Ind. Ter. Rail-brace and tie-plate	31,413	Aug. 15	88	1326
Walker, John Q. A., New York, N. Y. Bottle-display stand	30,331	Mar. 14	86	1796
Walker, Lillian G., Boston, Mass. Corset	30,381	Mar. 21	86	1977
Wall, Robert F., and F. Lemieux, Menominee, Mich. Root-puller frame	30,200	Feb. 14	86	1161
Wallace, Frederick J., Buffalo, N. Y. Stick-pin	31,115	July 4	88	177
Wallace, Harris L., Halifax, Canada. Wrench and brace member	31,593	Oct. 3	89	181
Wallace, Henry L., assignor to R. Wallace & Sons Manufacturing Company, Wallingford, Conn. Handle for spoons, forks, knives, or similar articles	31,224	July 18	88	532
Wallace, Henry L., assignor to R. Wallace & Sons Manufacturing Company, Wallingford, Conn. Handle for spoons, forks, &c	31,574	Oct. 3	89	178
Wallace, Henry L., assignor to R. Wallace & Sons Manufacturing Company, Wallingford, Conn. Handle for spoons, &c	31,733	Oct. 31	89	906
Wallace, Richard T., Gainesville, Fla. Game-board	31,263	July 18	88	539
Walmsley, Catherine. (See Walmsley, David L. and C.)				
Walmsley & Company. (See Strom, Axel A., assignor.)				
Walmsley, David L. and C., Detroit, Mich. Tooth brush and powder rack	31,028	June 20	87	2108

Alphabetical list of patentees of designs—Continued.

Name, residence, and design.	No.	Date.	Official Gazette. Vol.	Page.
Walsh, Edward Jr. (See Hartung, Charles C., assignor.)				
Walter, George M., Philadelphia, Pa. Measure	30,051	Jan. 24	86	623
Walther, Charles F., assignor to Niagara Radiator Company, Buffalo, N. Y. Radiator	31,950	Dec. 5	89	2061
Walton, William J. (See McCoy, Elijah, assignor.)				
Ward, Harry, *et al.* (See Srofe, Jesse H., assignor.)				
Wardroper, Annie, London, England. Abdominal band	30,700	May 2	87	884
Warne, Percy L., Cambria, Wyo. Rope-tightener	30,374	Mar. 21	86	1976
Warner Brothers Company. (See Warner, De Ver H., assignor.)				
Warner, De Ver H., assignor to Warner Brothers Company, Bridgeport, Conn. Holder for garment-supporters	31,269	July 18	88	540
Warner, James F., Essex, Vt. Sap-spout	31,860	Nov. 21	89	1659
Warren & Co., S. D. (See Bragdon, William B., assignor.)				
Washburn, Edwin C., Minneapolis, Minn. Bolt	30,783	May 16	87	1221
Washburne, James V., Waterbury, Conn. Safety-pin	31,432	Aug. 22	88	1517
Waters, Frederick R. (See Williams and Waters.)				
Waters, Gaby H., Clarence, S. C. Clothes-pin	31,438	Aug. 22	88	1518
Waters, Samuel B., assignor to Fowler Radiator and Manufacturing Company, Johnstown, Pa. Radiator-section	29,978	Jan. 10	86	335
Watkins, James T., Mossy Creek, Tenn., assignor of one-half to J. M. Hollaway, Macon, Ga. Member for spoke-sockets	29,987	Jan. 10	86	336
Watson, Clarence L., assignor to Watson & Newell Company, Attleborough, Mass. Spoon	31,732	Oct. 31	89	906
Watson, Frank T., assignor to Fulton Pulley Company, Fulton, N. Y. Shaft-supporter	30,034	Jan. 17	86	454
Watson, James A., assignor of one-half to R. W. Lee, Washington, D. C. Lawn-sprinkler stand	30,543	Apr. 11	87	352
Watson & Newell Company. (See Watson, Clarence L., assignor.)				
Watson, Thomas J., Bridgetown, Va. Box or crate fastener	32,039	Dec. 26	89	2644
Watt, Frank, Marquette, Mich. Chair-leg tip	30,425	Mar. 28	86	2161
Watt, Sern P., Chicago, Ill. Gas-lamp	31,626	Oct. 10	89	342
Wearne, Harry, Rixheim, Germany. Border for wall-paper	31,956	Dec. 5	89	2062
Wearne, Harry, Rixheim, Germany. Wall-paper	31,957	Dec. 5	89	2062
Wearne, Harry, Rixheim, Germany. Wall-paper	31,958	Dec. 5	89	2062
Wearne, Harry, Rixheim, Germany. Wall-paper	31,959	Dec. 5	89	2063
Wearne, Harry, Rixheim, Germany. Wall-paper	31,960	Dec. 5	89	2063
Wearne, Harry, Rixheim, Germany. Wall-paper	31,961	Dec. 5	89	2063
Wearne, Harry, Rixheim, Germany. Border for wall-paper	31,989	Dec. 12	89	2255
Wearne, Harry, Rixheim, Germany. Wall-paper	31,990	Dec. 12	89	2255
Wearne, Harry, Rixheim, Germany. Wall-paper	31,991	Dec. 12	89	2255
Wearne, Harry, Rixheim, Germany. Wall-paper	31,992	Dec. 12	89	2255
Wearne, Harry, Rixheim, Germany. Wall-paper	32,023	Dec. 19	89	2456
Wearne, Harry, Rixheim, Germany. Wall-paper	32,024	Dec. 19	89	2456
Wearne, Harry, Rixheim, Germany. Wall-paper	32,054	Dec. 26	89	2647
Webb, George C., New York, N. Y. Button	31,619	Oct. 10	89	340
Weber, Aaron M., Oshkosh, Wis. Skirt facing and binding	31,424	Aug. 15	88	1328
Weber, Henry E., Canton, Ohio. Fountain-cuspidor	32,005	Dec. 19	89	2453
Webster, E. G., *et al.* (See Barbour, William H., assignor.)				
Webster, F. H., *et al.* (See Barbour, William H., assignor.)				
Webster, George K. (See Crees and Court, assignors.)				
Weckwerth, Herman J., Germania, Wis. Mandolin-body	31,077	June 27	87	2310
Weigelt, Arthur, and W. Herms, St. Louis, Mo. Mechanical jumping frog	30,032	Jan. 17	86	483
Weigelt, Arthur, and W. Herms, St. Louis, Mo. Scaffold for mechanical jumping frogs	30,033	Jan. 17	86	483
Weihenmayer, Frederick, assignor of one-half to E. C. Rahme, Philadelphia, Pa. Tack-lifter and hammer	30,480	Apr. 4	87	169
Weihman, Henry A., assignor to J. F. Simons, T. Maddock, Philadelphia, F. M. Simons, Swarthmore, Pa., and E. S. Simons, Orange, N. J. Brush-back or similar article	31,226	July 18	88	532
Weinberg, Ben, Baltimore, Md. Show-case	31,758	Oct. 31	89	910
Weinraub, Albert, New Brunswick, N. J. Fan for sewing-machines	31,405	Aug. 15	88	1325
Weipper, Perry J. (See Pleasants, William H., assignor.)				
Weir Stove Company. (See Wilbur, George E., assignor.)				
Welch, Charles K., Coventry, England. Metallic wheel-rim	29,990	Jan. 10	86	337
Welch, Charles K., Coventry, England. Metallic wheel-rim	29,991	Jan. 10	86	337
Welch, Charles K., Coventry, England. Metallic wheel-rim	31,148	July 4	88	182
Welch, Charles K., Coventry, England. Tire	31,644	Oct. 10	89	345
Welch, Charles K., Coventry, England. Tire	31,645	Oct. 10	89	345
Weller, Ferdinand S., assignor to Excelsior Stove and Manufacturing Company, Quincy, Ill. Heating-drum	31,691	Oct. 17	89	513
Weller, Ferdinand S., assignor to Excelsior Stove and Manufacturing Company, Quincy, Ill. Oven-drum	31,692	Oct. 17	89	513
Wellman, Walter M., assignor to National Folding Box and Paper Company, New Haven, Conn. Box-blank	30,160	Feb. 7	86	991
Wells, Harlan P., Amesbury, Mass. Vehicle-axle	31,980	Dec. 12	89	2253
Wells, Joel C., Southbridge, Mass. Tag	30,254	Feb. 21	86	1318
Welty, Horace G., Cleveland, Ohio. Kaleidoscope	31,020	June 13	87	1953
Werner, Jacob J., Hebron, Neb. Clamping-band for stovepipe-elbows	31,199	July 11	88	378
Western Electric Company. (See Wait, Henry H., assignor.)				
Wetherald, James T., Boston, Mass. Syringe-nozzle	31,035	June 20	87	2109
Wetherald, James T., Boston, Mass. Syringe-nozzle	31,231	July 18	88	533
Wetherell, Mary E., Boston, Mass. Bustle	31,054	June 20	87	2112
Whaley, Charles F., St. Paul, Minn. Bicycle-stirrup upper	30,667	May 2	87	878
Whedon, Nathan L., Everett, Wash. Clock-back	29,970	Jan. 10	86	334
Wheeler, Benjamin F., assignor to Wheeler Saddle Company, Detroit, Mich. Bicycle-saddle base	29,947	Jan. 3	86	175
Wheeler, Benjamin F., assignor to Wheeler Saddle Company, Detroit, Mich. Saddle-base	29,989	Jan. 10	86	337
Wheeler, Charles L., Burns, N. Y. Tamping-shovel	31,473	Aug. 29	88	1697
Wheeler, Harvey C. (See Dittmar, Elmer C. F., assignor.)				
Wheeler Saddle Company. (See Wheeler, Benjamin F., assignor.)				
Wheeler, William, Foreston, Md. Safety hitch-ring	31,189	July 11	88	376
Wheelhouse, Sidney H., St. Louis, Mo., assignor to United States Head-Light Company, Utica, N. Y. Headlight-case for locomotives	30,334	Mar. 14	86	1797
Wheelhouse, Sidney H., St. Louis, Mo., assignor to United States Head-Light Company, Utica, N. Y. Headlight-case for locomotives	30,335	Mar. 14	86	1797
Whitaker, Charles G., Philadelphia, Pa. Bicycle handle-bar	31,364	Aug. 8	88	1146
Whitaker, Richard, assignor to Neverslip Manufacturing Company, New Brunswick, N. J. Horseshoe-pad	30,731	May 9	87	1065
Whitcher & Co., Frank W. (See Peters, Heber C., assignor.)				
Whitcomb, Grace E., Andover, and J. E. Barnard, Franklin, N. H. Combined fork and spoon	30,129	Feb. 7	86	985
White, Ebenezer V., Gladstone, Mich. Necktie-fastener	31,576	Oct. 3	89	179
White, Herbert E., New York, N. Y. Blank for expanded metal structures	31,138	July 4	88	181

Alphabetical list of patentees of designs—Continued.

Name, residence, and design.	No.	Date.	Official Gazette. Vol.	Page.
White, James H., New York, N. Y. Puzzle-board	31,848	Nov. 14	89	1336
White, Samuel K., Mystic, Conn. Cutter-frame	31,751	Oct. 31	89	909
White, William R., Bloomington, Ill. Hinge-staple	31,281	July 25	88	709
White, William R., Bloomington, Ill. Gate-latch	31,532	Sept. 19	88	2235
White, William R., Bloomington, Ill. Operating-bar for gate-latches	31,550	Sept. 26	88	2403
White, William R., Bloomington, Ill. Gate-hinge	31,750	Oct. 31	89	909
White, William R., Bloomington, Ill. Latch-lever	31,974	Dec. 12	89	2252
White, Willie B., Cleveland, Ohio. Speed-wagon body	30,119	Jan. 31	86	792
Whitman & Barnes Manufacturing Company. (See Barnes, George A., assignor.)				
Whitman, Willard M., Boston, Mass. Refrigerator	30,141	Feb. 7	86	987
Whitney, Clinton E., assignor to United States Battery Company, New York, N. Y. Portable electric lamp	30,206	Feb. 14	86	1162
Whittemore, Louise L., Boston, Mass. Badge	30,304	Mar. 7	86	1626
Wiessner, Oscar E. A., New York, N. Y. End piece for bedsteads	30,017	Jan. 17	86	481
Wiessner, Oscar E. A., New York, N. Y. End piece for bedsteads	30,018	Jan. 17	86	481
Wiessner, Oscar E. A., New York, N. Y. End piece for bedsteads	30,342	Mar. 14	86	1798
Wilbur, George E., assignor to Weir Stove Company, Taunton, Mass. Base for ranges or cooking-stoves	32,008	Dec. 19	89	2453
Wilbur, George E., assignor to Weir Stove Company, Taunton, Mass. Stove or range back	32,009	Dec. 19	89	2454
Wilbur, George E., assignor to Weir Stove Company, Taunton, Mass. Range or cooking-stove	32,010	Dec. 19	89	2454
Wilcox & Evertsen. (See Evertsen, Henry H., assignor.)				
Wilcox & Evertsen. (See Stohr, Samuel, assignor.)				
Wilder, William H., Gardner, Mass. Oil-stove	30,567	Apr. 18	87	504
Wiley, Clarence H., Hartford, Conn. Shoe-sole	30,973	June 6	87	1776
Wilhelm, Herman A., La Porte, Ind. Milk-separator	31,590	Oct. 3	89	181
Wilhelm, Herman A., La Porte, Ind. Metal can	31,742	Oct. 31	89	908
Wilke, Frederick A., Richmond, Ind. Refrigerator	31,203	July 11	88	379
Wilkerson, Samuel G., Durango, Colo. Curtain and shade bracket	31,791	Nov. 7	89	1132
Wilkinson, Francis E., and C. D. Kingston, Buffalo, N. Y. Badge	31,025	June 20	87	2108
Wilkinson, Francis E., and C. D. Kingston, Buffalo, N. Y. Badge	31,026	June 20	87	2108
Willard, Benjamin F., and S. R. Crowner, Springville, Iowa. Kitchen-cabinet	30,504	Apr. 4	87	173
Willard, Theadore A., assignor to Sipe & Sigler, Cleveland, Ohio. Storage-battery electrode	30,687	May 2	87	882
Williams, Adam C., Ravenna, Ohio. Toy bank	30,076	Jan. 31	86	785
Williams, Bradford L. (See Clarkson, Richard, assignor.)				
Williams, Daniel S., Salida, and F. R. Waters, Ouray, Colo. Hammer-head	31,244	July 18	88	536
Williams, David S., Philadelphia, Pa. Lamp-body	31,969	Dec. 12	89	2252
Williams, David S., Philadelphia, Pa. Lamp-body	32,000	Dec. 19	89	2452
Williams, Edgar L., Peoria, Ill. Game-counter	30,158	Feb. 7	86	990
Williams, Edward L., Kenosha, Wis. Bicycle-lamp	30,150	Feb. 7	86	989
Williams, Henry M., assignor of one-fourth to F. Burger, Fort Wayne, Ind. Cup	30,308	Mar. 7	86	1627
Williams, John F., Kansas City, Kans., assignor to Economy Gas Lamp Company, Kansas City, Mo. Lamp-fixture	30,147	Feb. 7	86	988
Williams, John F., Kansas City, Kans., assignor to Economy Gas Lamp Company, Kansas City, Mo. Lamp-fixture	30,148	Feb. 7	86	988
Williams, John F., Kansas City, Kans., assignor to Economy Gas Lamp Company, Kansas City, Mo. Lamp-fixture	30,149	Feb. 7	86	989
Williams, John F., assignor to Economy Gas Lamp Company, Kansas City, Mo. Lamp-fixture	30,768	May 16	87	1219
Williams, John F., assignor to Economy Gas Lamp Company, Kansas City, Mo. Lamp-fixture	30,769	May 16	87	1219
Williams, Luzerne A., Syracuse, N. Y. Insulating-plug for electric-line supports	31,838	Nov. 14	89	1334
Williams, Malcolm, Pasadena, Cal. Pencil-holder	30,330	May 23	87	1386
Williams, Milton F., St. Louis, Mo. Pulley	30,347	Mar. 14	86	1799
Williams, Milton F., St. Louis, Mo. Pulley	30,348	Mar. 14	86	1799
Williams, Theophilus, Chicago, Ill. Ruler	31,390	Aug. 15	88	1322
Willson, Charles G., Reading, Pa. Badge	31,387	Aug. 15	88	1322
Wilmot, Anna C. (See Knapp and Wilmot.)				
Wilmot, Frank A., assignor to Wilmot & Hobbs Manufacturing Company, Bridgeport, Conn. Tubing	30,062	Jan. 24	86	625
Wilmot & Hobbs Manufacturing Company. (See Wilmot, Frank A., assignor.)				
Wilson, Charles C., and G. Brownlie, Allegheny, Pa. Letter or bill file	31,671	Oct. 17	89	510
Wilson, Mathew, Garrison, Iowa. Bridle-fastener blank	30,097	Jan. 31	86	788
Wilson, Oscar L., Forreston, Ill. Pounder for washing-machines	31,047	June 20	87	2111
Wilson, Vincent W., Pawtucket, R. I. Game-frame	31,418	Aug. 15	88	1327
Wilson, Vincent W., Pawtucket, R. I. Game-board	31,419	Aug. 15	88	1327
Winlow, A. E. (See Murphy, William P., assignor.)				
Winn, Horatio S., San Francisco, Cal. Badge	31,343	Aug. 8	88	1143
Winn, William E., Hamburg, assignor to Steel Storage and Elevator Construction Company, Buffalo, N. Y. Tank-floor	30,373	Mar. 21	86	1976
Winters, Wilhalm H., Proctorville, Ohio. Upper for boots or shoes	31,106	June 27	87	2314
Wipf, Hermann J. D., assignor to J. and F. H. Wyeth and E. T. Dobbins, Philadelphia, Pa. Measuring-cup	30,757	May 16	87	1217
Wipf, Hermann J. D., assignor to J. and F. H. Wyeth and E. T. Dobbins, Philadelphia, Pa. Bottle	30,758	May 16	87	1217
Wirt, Paul E., Bloomsburg, Pa. Body for musical instruments	31,129	July 4	88	179
Wisconsin Chair Company. (See Coffman, James H., assignor.)				
Wisconsin Chair Company. (See Dennett, Fred A., assignor.)				
Withington, Charles W., assignor to Withington & Royal, Haverhill, Mass. Dust-guard for corners	30,684	May 2	87	881
Withington, Charles W., assignor to Withington & Royal, Haverhill, Mass. Dust-guard for corners	30,685	May 2	87	882
Withington & Royal. (See Withington, Charles W., assignor.)				
Withycombe, Frederick H., assignor of eleven-twentieths to C. H. McLeod, Montreal, Canada. Insulator	31,798	Nov. 7	89	1133
Withycombe, Frederick H., assignor of eleven-twentieths to C. H. McLeod, Montreal, Canada. Insulator	31,799	Nov. 7	89	1133
Witsch, Nicholas, Jersey City, N. J., assignor to American Lithographic Company, New York, N. Y. Label	30,555	Apr. 18	87	502
Wittbold, Henry G., Chicago, Ill. Canopy-frame	30,268	Feb. 28	86	1488
Witte, Henry, *et al.* (See Otto, Gustav, assignor.)				
Wolf, Benjamin, Philadelphia, Pa., assignor to National Metal Edge Box Company, of New Jersey. Match safe or tray	30,228	Feb. 21	86	1314
Wolf, Benjamin, Philadelphia, Pa., assignor to National Metal Edge Box Company, of New Jersey. Match safe or tray	31,299	Aug. 1	88	936
Womrath, Andrew K., New York, N. Y. Badge	31,426	Aug. 22	88	1517
Wood, Joseph W., Maysville, Ga. Graft-cutting blade	30,675	May 2	87	880
Woodruff, Lucius, Binghamton, N. Y. Whip-holder	30,882	May 30	87	1594
Woodworth, Albert C., assignor to Consolidated Car Fender Company, Providence, R. I. Cushion or guard for street-cars	30,201	Feb. 14	86	1161

Alphabetical list of patentees of designs—Continued.

Name, residence, and design.	No.	Date.	Official Gazette. Vol.	Page.
Worth, William O., Chicago, Ill. Frame for motor-vehicles	31,867	Nov. 21	89	1660
Worth, William O., Chicago, Ill. Frame for motor-vehicles	31,982	Dec. 12	89	2254
Worthington, Charles C., Irvington, N. Y. Valve-motion lever for steam-engines	30,280	Feb. 28	86	1490
Wortnington, Charles C., Irvington, N. Y. Duplex steam-pump frame	30,496	Apr. 4	87	172
Worthington, Charles C., Dunnfield, N. J. Duplex pump-frame	30,497	Apr. 4	87	172
Worthington, Charles C., Dunnfield, N. J. Duplex steam-cylinder casing and cradle	30,498	Apr. 4	87	172
Wright, George H., Buffalo, N. Y. Nursing-bottle	30,007	Jan. 17	86	479
Wright, Henry E., Springfield, Mo. Window-shade and curtain-pole fixture	30,995	June 13	87	1949
Wright, James E. (See Oeder and Wright.)				
Wright, John F., Stockton, Cal. Bicycle pants-guard	30,501	Apr. 4	87	173
Wright, John H., Columbus, Ohio. Incandescent-electric-lamp shade	30,787	May 16	87	1221
Wright, Julia A., Austin, Ill. Dressmaker's pattern-chart	30,553	Apr. 11	87	353
Wright, William S., Syracuse, N. Y. Kitchen-cabinet	29,943	Jan. 3	86	174
Wyeth, Frank H., *et al.* (See Wipf, Hermann J. D., assignor.)				
Wyeth, John, *et al.* (See Wipf, Hermann J. D., assignor.)				
Wyman, Horace, assignor to Crompton & Knowles Loom Works, Worcester, Mass. Drop for warp stop-motions	30,899	May 30	87	1597
Yale & Towne Manufacturing Company. (See Towne, Henry R., assignor.)				
Yeager-Hunter Spring City Stove Works. (See Yeager, Jesse G., assignor.)				
Yeager, Jesse G., assignor to Yeager-Hunter Spring City Stove Works, Spring City, Pa. Cooking-stove	30,287	Feb. 28	86	1491
Young, Freeman N., and F. E. Thompson, Arlington, Mass. Refrigerator	31,417	Aug. 15	88	1327
Young, Samuel T., McKeesport, Pa. Vehicle-tire	31,831	Nov. 14	89	1333
Young, William H., Troy, N. Y. Die for monuments	31,496	Sept. 5	88	1893
Youngstrom, Charles O. F., Phœnix, Ariz. Ter. Casing for water-heaters	31,810	Nov. 7	89	1135
Zacharias, Charles R., Asbury Park, N. J. Collapsible tube	30,851	May 23	87	1388
Zeber, Daniel W., Avalon, Pa. Bottle	30,759	May 16	87	1217
Ziegler, Jacob, Coffeyville, Kans. Neck-yoke center	30,271	Feb. 28	86	1489
Zoerb, Elizabeth. (See Zoerb, William, assignor.)				
Zoerb, William, Dedham, Mass. Eyeglass-case	31,070	June 27	87	2309
Zoerb, William, assignor, by mesne assignments, to E. Zoerb, Dedham, Mass. Eyeglass-case	30,307	Mar. 7	86	1627
Zsiday, Jozsef, New York, N. Y. Cushion-heel	31,162	July 4	88	185
Zuck, William B., Philadelphia, Pa. Box	30,089	Jan. 31	86	787

ALPHABETICAL LIST OF REGISTRANTS OF TRADE-MARKS.

Name, residence, and title.	No.	Date.	Official Gazette. Volume.	Page.
A. D. Porter Company, New York, N. Y. Monthly periodical paper	32,432	Jan. 31	86	794
Acker & Co., Finley, Philadelphia, Pa. Laundry, toilet, and scouring soap	32,526	Feb. 21	86	1321
Acker & Co., Finley, Philadelphia, Pa. Raw and roasted coffee	33,742	Nov. 14	89	1339
Actien-Gesellschaft für Anilin Fabrikation, Berlin, Germany. Certain named chemical substances	32,529	Feb. 21	86	1322
Actien-Gesellschaft für Anilin Fabrikation, Berlin, Germany. Certain named chemical substances	32,530	Feb. 21	86	1322
Actien-Gesellschaft für Anilin Fabrikation, Berlin, Germany. Certain named chemical substances	32,531	Feb. 21	86	1322
Actien-Gesellschaft für Anilin Fabrikation, Berlin, Germany. Certain named chemical substances	32,532	Feb. 21	86	1322
Actien-Gesellschaft für Anilin Fabrikation, Berlin, Germany. Perfumes	33,153	June 27	87	2320
Actien-Gesellschaft für Anilin Fabrikation, Berlin, Germany. Perfumes	33,154	June 27	87	2320
Actien-Gesellschaft für Anilin Fabrikation, Berlin, Germany. Photographic developers	33,417	Aug. 29	88	1700
Actien-Gesellschaft für Anilin Fabrikation, Berlin, Germany. Photographic developers	33,418	Aug. 29	88	1701
Actien-Gesellschaft für Fabrikation von Kohlenstiften, vormals F. Hardtmuth & Co., Ratibor, Germany. Carbon rods for electrical purposes	32,854	May 9	87	1072
Adams, George S., New York, N. Y. Paints, calcimines, and pigments	33,161	June 27	87	2321
Adams, William Q., Portland, Oreg. Stove-blacking	32,851	May 9	87	1071
Adler & Co., H., Pittsburg, Pa. Portable ovens	33,796	Nov. 21	89	1668
Adler, Leon N., New York, N. Y. Insecticides	32,999	May 30	87	1605
Adriance, Platt & Company, Poughkeepsie, N. Y. Mowing or reaping machinery	32,781	Apr. 25	87	694
Aikman, Charles M., Glasgow, Scotland. Certain named provisions	33,816	Nov. 28	89	1858
Ainslie, Allen, New York, N. Y. Liquid antiseptic	33,148	June 27	87	2319
Akron Cereal Company, Akron, Ohio. Compressed rolled oats	32,568	Mar. 7	86	1631
Aktiengesellschaft für Asphaltirung und Dachbedeckung, vormals Johannes Jeserich, Berlin and Hamburg-Eidelstedt, Germany. Certain named painters' supplies	33,481	Sept. 19	88	2239
Albatross Mining and Prospecting Company, Limited, Adelaide, South Australia. Lamp-wicks	32,566	Mar. 7	86	1631
Albemarle Chemical Co., Nashville, Tenn. Certain named medicament	33,060	June 13	87	1955
Albert & J. M. Anderson Manufacturing Company, Boston, Mass. Certain named insulators	32,544	Feb. 28	86	1494
Albert & J. M. Anderson Manufacturing Company, Boston, Mass. Electric-arc lamps	32,545	Feb. 28	86	1494
Alden, Frank G., New York, N. Y. Coffee	33,374	Aug. 15	88	1330
Allen & Co., George, Ampthill, England. Medical compound	32,594	Mar. 14	86	1802
Allison & Lamson, New York, N. Y. Umbrellas and parasols	33,339	Dec. 5	89	2064
Almy & Co., Frederick, New York, N. Y. Woolens and woolen dress goods	33,798	Nov. 28	89	1857
Alphons Custodis Actiengesellschaft für Essen- und Ofenbau, Dusseldorf, Germany. Certain named bricks	33,111	June 20	87	2116
Alsberg & Co., Irving, New York, N. Y. Certain named articles of men's apparel	33,285	Aug. 1	88	943
American Automusic Company, New York, N. Y. Automatically-operated musical instruments	33,569	Oct. 17	89	516
American Carburizing Company, New York, N. Y. Case-hardening and annealing compound	32,424	Jan. 24	86	630
American Chemical Specialty Company, New York, N. Y. Chemical compound in powdered form	33,001	May 30	87	1605
American Chemical Specialty Company, New York, N. Y. Chemical compound in powdered form	32,764	Apr. 25	87	692
American Food Company, Jersey City, N. J., and New York, N. Y. Canned soups	33,083	June 20	87	2113
American Monolith Company, Milwaukee, Wis. Plaster building material	32,794	May 2	87	888
American Nickeloid Co., Peru, Ill. Nickelized sheet metal and articles manufactured therefrom	33,052	June 6	87	1780
American Optical Company, Southbridge, Mass. Certain named optical goods	32,787	May 2	87	887
American Sugar Refining Company, New York, N. Y. Sugar	33,651	Oct. 31	89	916
American Sugar Refining Company, New York, N. Y. Certain named sugar	33,743	Nov. 14	89	1339
American Sugar Refining Company, New York, N. Y. Certain named sugar	33,744	Nov. 14	89	1339
American Sugar Refining Company, New York, N. Y. Certain named sugar	33,745	Nov. 14	89	1339
American Sugar Refining Company, New York, N. Y. Certain named sugar	33,746	Nov. 14	89	1339
American 3 Color Company, Chicago, Ill., and New York, N. Y. Publications	33,175	July 4	88	188
American Tobacco Company, Newark, N. J., and New York, N. Y. Cigarettes	32,806	May 2	87	889
American Tobacco Company, Newark, N. J., and New York, N. Y. Cigarettes	33,263	July 25	88	713
American Waltham Watch Company, Waltham and Boston, Mass. Watches	32,660	Apr. 4	87	176
American Waltham Watch Company, Waltham and Boston, Mass., and New York, N.Y. Watches and their parts and watch-movements	33,231	July 18	88	542
American Waltham Watch Company, Waltham and Boston, Mass., and New York, N. Y. Watches and their parts and watch-movements	33,232	July 18	88	542
American Waltham Watch Company, Waltham and Boston, Mass., and New York, N. Y. Watches and their parts and watch-movements	33,233	July 18	88	542
American Waltham Watch Company, Waltham and Boston, Mass., and New York, N. Y. Watches and their parts and watch-movements	33,234	July 18	88	542
American Waltham Watch Company, Waltham and Boston, Mass., and New York, N. Y. Watches and their parts and watch-movements	33,235	July 18	88	542
American Wringer Company, Providence and Woonsocket, R. I.; New York and Auburn, N. Y., and Erie, Pa. Clothes-wringers and parts thereof	32,909	May 16	87	1233
Anderson, William J., New York, N. Y. Soaps	32,705	Apr. 11	87	355
Andrews, Ernest L., Bristol, Tenn. Certain named medicinal remedies	32,521	Feb. 21	86	1321
Anglo-Swiss Condensed Milk Company, New York, New York, N. Y. Sterilized milk	33,413	Aug. 29	88	1700
Ansonia O & C Company, Ansonia, Conn. Corset-laces	32,967	May 30	87	1602
Anti Gout and Rheumatism Co., Chicago, Ill. Rheumatism and gout medicines	32,481	Feb. 7	86	994
Antikamnia Chemical Company, St. Louis, Mo. Certain named medicinal tablets	33,729	Nov. 14	89	1338
Antikamnia Chemical Company, St. Lou s, Mo. Certain named medicinal tablets	33,730	Nov. 14	89	1338
Anton, George, Monongahela City, Pa. Miners' lamps	33,199	July 4	88	190
Arbuckle Bros., New York, N. Y., and Chicago, Ill. Coffee	32,953	May 23	87	1395
Arbuckle Bros., New York, N. Y., and Chicago, Ill. Coffee	32,954	May 23	87	1395
Arbuckle Bros., New York, N. Y., and Chicago, Ill. Tea	32,955	May 23	87	1395
Arbuckle Bros., New York, N. Y., and Chicago, Ill. Tea	33,214	July 11	88	383
Arcade File Works, Anderson, Ind.; Chicago, Ill., and New York, N. Y. Cycles	32,351	Jan. 10	86	341

Alphabetical list of registrants of trade-marks—Continued.

Name, residence, and title.	No.	Date.	Official Gazette. Vol.	Page.
Arcade File Works, Anderson, Ind.; Chicago, Ill., and New York, N. Y. Cycles	32,915	May 16	87	1234
Arcadia Maple Company, Kansas City, Mo. Maple-syrup	32,986	May 30	87	1604
Arger, Edouard, Paris, France, and New York, N. Y. Mineral water	33,657	Oct. 31	89	916
Arista Manufacturing Co., Limited, Detroit, Mich. Face lotion	33,277	July 25	88	714
Arnold & Co., C. H., New York, N. Y. Whisky	33,546	Oct. 10	89	350
Arnold, Schiff & Co., New York, N. Y. Umbrellas and parasols	33,535	Oct. 10	89	349
Ashley & Bailey Company, Paterson, N. J., and New York, N. Y. Silk ribbons	32,968	May 30	87	1602
Aspell & Company, New York, N. Y. Irish whisky	32,495	Feb. 14	86	1166
Aspell & Company, New York, N. Y. Rock-and-rye whisky	32,496	Feb. 14	86	1167
Aspell & Company, New York, N. Y. Rye whisky	32,769	Apr. 25	87	692
Atkinson, William J., New York, N. Y. Lithia water and ginger-ale	33,066	June 13	87	1956
Atlanta Milling Company, Atlanta, Ga. Wheat-flour	33,487	Sept. 19	88	2240
Atlantic Peanut Refinery, Philadelphia, Pa. Nut food	33,856	Dec. 5	89	2066
Atlantic Refining Company, Cleveland, Ohio. Cosmetics, salves, ointments, and unguents	32,397	Jan. 17	86	488
Atlas Shoe Company, Boston, Mass. Boots and shoes	33,476	Sept. 19	88	2239
August Beck & Company, Chicago, Ill. Snuff	32,323	Jan. 3	86	179
Ausable Horse Nail Company, New York, N. Y. Horseshoe-nails	33,489	Sept. 19	88	2240
Austin, John H., Minneapolis, Minn. Skin-cream	33,896	Dec. 12	89	2258
Avery Stamping Company, Cleveland, Ohio. Metal ice-skates	33,609	Oct. 17	89	520
Ayer Tanning Company, Boston, Mass. Finished calfskins	32,972	May 30	87	1602
B. B. Hill Manufacturing Company, Philadelphia, Pa. Self-inking stamps	32,343	Jan. 10	86	340
B. Stroh Brewing Company, Detroit, Mich. Lager-beer	32,977	May 30	87	1603
B. Stroh Brewing Company, Detroit, Mich. Lager-beer	32,978	May 30	87	1603
B. W. Blauvelt Company, New York, N. Y. Coffee	33,460	Sept. 12	88	2064
B. W. Blauvelt Company, New York, N. Y. Coffee	33,814	Nov. 28	89	1858
Badger State Shoe Company, Milwaukee, Wis. Ladies' boots and shoes	32,381	Jan. 17	86	486
Bailey & Co., S. R., Amesbury, Mass. Shaft-couplings for carriages	32,428	Jan. 24	86	630
Baille, Jean B. A., Paris, France. Spy-glasses and double opera-glasses	33,834	Dec. 5	89	2064
Baird, John C., Boston, Mass. Lenses for railway semaphore-signal lights	33,166	June 27	87	2321
Baiss Brothers & Stevenson, London, England. Medicine for lung diseases	33,623	Oct. 24	89	702
Baker Co., Franklin, Philadelphia, Pa. Shredded cocoanut	33,186	July 4	88	189
Baker, James G., Fairfield, Ill. Certain named medical compound	32,520	Feb. 21	86	1321
Ballard, Edward G., and D. Herman, St. Helen's, England. Preparations for production of nascent sulfur for use in baths	33,050	June 6	87	1780
Baltimore Copper Smelting and Rolling Company, Baltimore, Md. Copper manufactures	32,595	Mar. 14	86	1802
Baltimore Wholesale Grocery Company, Baltimore, Md. Domestic wheat-flour and oatmeal	33,217	July 11	88	383
Barclay, Reginald G. (See Barclay, William O. and R. G.)				
Barclay, William O. and R. G., New York, N. Y. Liquid for use as a blood-purifier and tonic	33,059	June 13	87	1955
Barclay, William O. and R. G., New York, N. Y. Medicine for certain named diseases	33,142	June 27	87	2319
Barclay, William O. and R. G., New York, N. Y. Toilet preparation for external application	33,209	July 11	88	383
Barclay, William O. and R. G., New York, N. Y. Pills for certain named diseases	33,280	July 25	88	714
Baridon, Louis R., Montreal, Canada. Tonic medicine	33,369	Aug. 15	88	1330
Barnes & Co., Philadelphia, Pa. Certain named groceries	33,317	Aug. 8	88	1153
Barnes, Estate of Elbridge F., New Haven, Conn. Cutters for metal pipes	33,228	July 11	88	384
Barnstead, John H., Halifax, Canada. Medicinal oil for certain named diseases	33,334	Aug. 8	88	1154
Bartels, Herman, Syracuse, N. Y. Malt extract	33,592	Oct. 17	89	518
Bartram Bros., New York, N. Y. Butter	32,604	Mar. 21	86	1979
Bassett, Samuel, Toronto, Canada. Pills	33,665	Oct. 31	89	917
Bate & Sons, H. N., Ottawa, Canada. Tea and coffee	32,439	Jan. 31	86	795
Battle & Co., Chemists' Corporation, St. Louis, Mo. Medicinal antipurulent	32,491	Feb. 14	86	1166
Battle, Laura E., St. Louis, Mo. Champagne	32,608	Mar. 21	86	1980
Bauer & Cie., Berlin, Germany. Chemical, pharmaceutic, and dietetic preparations, food, and nourishments	32,648	Mar. 28	86	2169
Baxter & Bro., H. C., Brunswick, Me. Certain named canned goods	32,359	Jan. 10	86	342
Baxter & Bro., H. C., Brunswick, Me. Certain named canned goods	32,502	Feb. 14	86	1167
Baxter & Bro., H. C., Brunswick, Me. Certain named canned goods	32,641	Mar. 28	86	2168
Bay State Milling Company, Winona, Minn., and Boston, Mass. Wheat-flour	32,885	May 16	87	1231
Bebb, Maurice J., Xenia, Ohio. Compound in liquid and powdered form for cleansing straw	33,701	Nov. 7	89	1138
Beckel & Co., Joseph, New York, N. Y. Corsets	32,433	Jan. 31	86	794
Beckel & Co., Joseph, New York, N. Y. Ladies' corsets	33,901	Dec. 19	89	2459
Becker & Co., Charles R., Baltimore, Md. Cigars, cheroots, cigaros, stogies, and cigarettes	32,353	Jan. 10	86	341
Beckham, Alfred, Grand Prairie, Tex. Liniment for certain named diseases	33,851	Dec. 5	89	2065
Becton, Dickinson & Co., New York, N. Y. Hypodermic, aspirating, and antitoxine syringes and needles for same, and thermometers	33,766	Nov. 21	89	1664
Beer, Johannes B. de, New York, N. Y. Teething remedy	33,895	Dec. 12	89	2258
Beetham & Son, M., Cheltenham, England. Soap, perfumery, and toilet preparations for the teeth, skin, and hair	32,938	May 23	87	1394
Beetson, John J., New York, N. Y. Hair-crimpers	33,301	Aug. 8	88	1151
Beling, Leopold, New York, N. Y. Tea, cocoa, and crude and prepared chocolate for certain named purposes	33,696	Nov. 7	89	1138
Bell, Americus, Matawan, N. J. Oils for certain named purposes	33,943	Dec. 26	89	2650
Bell & Sons, Geo., Liverpool, England, and Buenos Ayres, Argentina. Certain named lumber	33,615	Oct. 17	89	520
Bell & Sons, George, Liverpool, England, and Buenos Ayres, Argentina. Certain named agricultural implements and machinery	33,795	Nov. 21	89	1667
Bendixen Tobacco Co., Syracuse, N. Y. Scrap-tobacco	33,606	Oct. 17	89	520
Benedict & Warner, New York, N. Y. Stones for ornamental settings	33,201	July 11	88	382
Benger Soehne, Wilhelm, Stuttgart, Germany. Knitted fabrics and garments made therefrom	33,865	Dec. 12	89	2256
Benger Soehne, Wilhelm, Stuttgart, Germany. Knitted fabrics and garments made therefrom	33,866	Dec. 12	89	2256
Benway, Andrew D., Lawton, Mich. Grapes	33,399	Aug. 22	88	1524
Bernard, Gebrüder, Offenbach-on-the-Main, Germany. Smoking-tobacco, chewing-tobacco, and snuff	32,354	Jan. 10	86	341
Bernheimer & Walter, New York, N. Y. Cotton goods	32,465	Feb. 7	86	992
Bernheimer & Walter, New York, N. Y. Cotton fabrics	32,863	May 16	87	1229
Bernheimer & Walter, New York, N. Y. Cotton fabrics	33,022	June 6	87	1777
Bernstein & Co., Moses, Philadelphia, Pa. Suspenders	32,826	May 9	87	1069
Beswick & Co., R. O., Cleveland, Ohio. Leather razor-strops	32,382	Jan. 17	86	486
Bethencourt, Miguel, Curaçoa, Dutch West Indies, and New York, N. Y. Bitters	33,141	June 27	87	2319
Bingham & Taylor, Buffalo, N. Y. Certain named cast-iron articles	33,011	May 30	87	1606
Bird & Son, F. W., Walpole, Mass. Flexible roofing materials	33,259	July 18	88	544
Bischoff & Co., C., New York, N. Y. Medicated soap	32,670	Apr. 4	87	177
Bister, John, New York, N. Y. Umbrellas, umbrella-coverings of cotton cloth with a silk finish, and umbrella-fittings	33,761	Nov. 21	89	1664
Blackinton, W. & S., Providence, R. I., and New York, N. Y. Certain named articles of jewelry	32,431	Jan. 31	86	794
Blake, Carlostine E., Minneapolis, Minn. Disinfectants and deodorizers	33,000	May 30	87	1605
Blakemore, Thomas M., Washington, D. C. Cigars	32,422	Jan. 24	86	630
Blanchard, Frank W., Benicia, Cal. Toilet preparation	33,845	Dec. 5	89	2065

Alphabetical list of registrants of trade-marks—Continued.

Name, residence, and title.	No.	Date.	Official Gazette. Vol.	Page.
Blauvelt, James E., Nyack, N. Y. Mouth-wash	33,096	June 20	87	2115
Blondeau et Cie., London, England. Certain named toilet articles and preparations	32,757	Apr. 25	87	691
Blondeau et Cie., London, England. Certain named toilet articles	33,210	July 11	88	383
Bloomingdale, Lyman G., New York, N. Y. Men's boots and shoes	33,720	Nov. 14	89	1337
Blum, Hugo, Baltimore, Md. Washing fluid	33,029	June 6	87	1778
Bodenhausen, Eberhard von, Berlin, Germany. Albuminates and compounds thereof	32,836	May 9	87	1070
Bohne Bros. & Co., New York, N. Y. Collars	32,626	Mar. 28	86	2167
Bolles, Archibald L., New York, N. Y. Windows and window-frames	33,638	Oct. 24	89	704
Bond's Soap Company, Limited, Manchester, England. Scouring compound	33,063	June 13	87	1955
Bonus-Milner Milling Company, Sioux City, Iowa. Wheat-flour	33,780	Nov. 21	89	1666
Boogher, Force & Goodbar Hat Company, St. Louis, Mo. Men's and boys' hats and caps	32,510	Feb. 21	86	1320
Borden's Condensed Milk Company, New York, N. Y. Certain named dairy products	33,439	Sept. 5	88	1895
Bowker Fertilizer Company, Boston, Mass. Certain named food for poultry and domestic animals	32,447	Jan. 31	86	795
Bowles, Robert C. M., Boston, Mass. Instrument to assist the hearing	32,792	May 2	87	888
Bowling, Coblens & Cahn, Baltimore, Md. Men's and boys' shirts	33,298	Aug. 1	88	944
Bridgeport Brass Company, Bridgeport, Conn. Certain named brackets	33,406	Aug. 22	88	1524
Briggs & Sons, Isaac, Wakefield, England. Hosiery	32,725	Apr. 18	87	510
Brion, Paté, Burke & Cie., Paris, France. Certain named dry goods	32,308	Jan. 3	86	178
Brion, Paté, Burke & Co., Paris, France. Surgical bandages	33,362	Aug. 15	88	1329
Brissonnet, Jules, Paris, France. Disinfectant	32,848	May 9	87	1071
Brissonnet, Jules, Paris, France. Disinfectant	32,849	May 9	87	1071
British Cyanides Company, Limited, Oldbury, England. Cyanid of potassium	32,378	Mar. 7	86	1632
Brossart, Frank P., Los Angeles, Cal. Medicines for certain named diseases	32,735	Apr. 18	87	511
Brown Company, Limited, Rochester, N. Y. Liquid preparation for removing scale, &c., from boilers	32,616	Mar. 21	86	1981
Brown, Ernest N., Maywood, Ill. Remedies for certain named diseases	32,666	Apr. 4	87	176
Brown, Henry, Duluth, Minn. Certain named medical compounds	33,624	Oct. 24	89	703
Brown, John A., Washington, Kans. Cosmetic compounds	33,737	Nov. 14	89	1338
Brown, William R., Boston, Mass. Medicines for certain named diseases	33,097	June 20	87	2115
Browning & Baines, Washington, D. C. Roasted and granulated coffee	32,882	May 16	87	1231
Buffalo Pitts Company, Buffalo, N. Y. Certain named machines and their parts	32,683	Apr. 4	87	178
Buffalo Scale Company, Buffalo, N. Y. Scales	32,821	May 2	87	890
Burlumi, Panos A., Patras, Greece. Currants	32,675	Apr. 4	87	177
Burrage, Charles R., Cincinnati, Ohio. Medical compounds and applications for the skin	33,278	July 25	88	714
Burt & Harris, New York, N. Y. Mourning hat-bands	32,378	Jan. 17	86	486
Burton Bros. & Co., New York, N. Y. Cotton fabrics	32,631	Mar. 28	86	2167
Burton Brothers & Co., New York, N. Y. Cotton fabrics	33,237	July 18	88	542
Bushnell, William F. T., Aberdeen, S. D. Prepared breakfast-food	33,652	Oct. 31	89	916
Butler, James, New York, N. Y. Condensed milk	32,812	May 2	87	889
Butler, James, New York, N. Y. Condensed milk	32,883	May 16	87	1231
Butler, James, New York, N. Y. Canned fruits and vegetables	32,884	May 16	87	1231
Butler, James, New York, N. Y. Laundry soap	32,940	May 23	87	1394
Butler, Mittie E., Jetmore, Kans. Detergent compound for laundry purposes	33,601	Oct. 17	89	519
Butz, John F., Fort Worth, Tex. Toys or puzzles	32,756	Apr. 25	87	691
C. A. Pearsall Co., Des Moines, Iowa. Liquid flavoring extracts and toilet salves and creams	33,159	June 27	87	2320
C. C. Riotte Company, New York, N. Y. Vapor-engines	32,963	May 23	87	1396
C. T. Sampson Manufacturing Company, North Adams, Mass. Leather and boots and shoes	33,838	Dec. 5	89	2064
Caesar, Carl W., and O. H. A. Loretz, Halle-on-the-Saale, Germany. Vegetable drugs and tinctures, extracts, and essences therefrom	32,611	Mar. 21	86	1980
Caille, Augustus A., Detroit, Mich. Rings	33,567	Oct. 17	89	516
Caille-Schiemer Co., Detroit, Mich. Coin-controlled mechanism	32,567	Mar. 7	86	1631
Caille-Schiemer Co., Detroit, Mich. Coin-controlled mechanism	33,447	Sept. 5	88	1895
Calcium King Lamp Company, Waterbury, Conn.; New York, N. Y.; Philadelphia, Pa.; Boston, Mass.; Chicago, Ill., and Cincinnati, Ohio. Bicycle and carriage lamps	32,484	Feb. 7	86	994
Calcium King Lamp Company. Waterbury, Conn.; New York, N. Y.; Philadelphia, Pa.; Boston, Mass.; Chicago, Ill., and Cincinnati, Ohio. Bicycle and carriage lamps	32,535	Feb. 21	86	1322
Caldwell, Ira, Newburg, N. Y. Herb tea	33,045	June 6	87	1779
California Fuse Works, San Francisco, Cal. Fuses for explosive articles	32,347	Jan. 10	86	341
Camm Watch Case Company, New York, N. Y. Watches and watchcases	33,564	Oct. 17	89	516
Campbell, Annie, Washington, D. C. Disinfectant	33,947	Dec. 26	89	2651
Candler, Gustav A., Chicago, Ill. Antiseptic in powdered form	32,654	Mar. 28	86	2169
Canepa Brothers, Chicago, Ill. Macaroni	33,290	Aug. 1	88	943
Canepa Brothers, Chicago, Ill. Macaroni	33,291	Aug. 1	88	943
Canepa Bros., Chicago, Ill. Macaroni	33,311	Aug. 8	88	1152
Cannon, Henry S., Kansas City, Mo. Butter	33,378	Aug. 15	88	1331
Capital City Dairy Company, Columbus, Ohio. Artificial butter	33,400	Aug. 22	88	1524
Capucine Co., Boston, Mass. Textile fabrics made from animal or vegetable fibers	33,309	Aug. 8	88	1152
Carbolineum Wood Preserving Company, Milwaukee, Wis. Certain named paint	33,006	May 30	87	1605
Carlson, Oscar, New York, N. Y. Riding-habits and hunting-skirts	32,659	Apr. 4	87	176
Carlton, William F., Rochester, N. Y. Certain named photographers' supplies	33,641	Oct. 31	89	915
Carnrick, George W., New York, N. Y. Surgical dressing	33,342	Aug. 8	88	1155
Carrère, Joseph M., New York, N. Y. Cement	33,528	Oct. 3	89	188
Carter Chemical Company, Delaware, Ohio. Liquid polish	32,795	May 2	87	888
Carter's Ink Company, Boston, Mass. Certain named type-writer supplies	32,464	Feb. 7	86	992
Case & Son, A. Wells, Highland Park, Conn. Substitute for leather consisting of pulp-board	32,860	May 16	87	1229
Casselmann, Theodor, Milwaukee, Wis. Corn cure	33,663	Oct. 31	89	917
Castree & Shaw Company, Owosso, Mich. Valves	33,830	Nov. 28	89	1860
Catton Bell & Co., San Francisco, Cal. Certain named canned goods and foods and relishes	32,772	Apr. 25	87	693
Cavagnaro, August A., San Francisco, Cal. Certain named medical compounds and bitters	32,373	Jan. 10	86	343
Cavanagh, Joseph R. and S. A. Townsend, Indianapolis, Ind. Railway-guides	33,410	Aug. 29	88	1700
Celluloid Company, New York, N. Y. Collar-buttons	33,300	Aug. 8	88	1151
Chainless Cycle Manufacturing Company, Rochester, N. Y. Bicycles	32,916	May 16	87	1234
Chandler & Taylor Company, Indianapolis, Ind. Certain named machinery and parts and attachments	33,297	Aug. 1	88	944
Charbonnet, Peter G., New Orleans, La. Certain named medical compounds	33,668	Oct. 31	89	917
Charles & Co., New York, N. Y. Certain named groceries	32,514	Feb. 21	86	1320
Charles & Co., New York, N. Y. Wines and liquors	32,609	Mar. 21	86	1980
Chas. A. Conklin Manufacturing Company, Atlanta, Ga. Tin and terne plates	33,448	Sept. 5	88	1896
Chemical Charcoal Company, Buffalo, N. Y. Charcoal	33,753	Nov. 14	89	1340
Chemisch-Technisches Laboratorium von Dr. Israel Roos, Frankfort-on-the-Main, Germany. Remedy for certain named diseases	33,622	Oct. 24	89	702
Chemische Fabrik auf Actien, (vorm. E. Schering,) Berlin, Germany. Photographic developers	33,504	Oct. 3	89	186
Chemische Fabrik Dahme, Dr. Foerster & Sauermann, Dahme, Germany. Powders for perspiring skin	33,772	Nov. 21	89	1665
Chemische Fabrik "Rothes Kreuz," Berlin, Germany. Certain named toilet preparations	32,701	Apr. 11	87	355

Alphabetical list of registrants of trade-marks—Continued.

Name, residence, and title.	No.	Date.	Official Gazette. Vol.	Page.
Chemische Fabrik Sulzbach, Gesellschaft mit Beschränkter Haftung, Sulzbach, Germany. Medicines for certain named diseases	32,887	May 16	87	1231
Chemische Fabrik von Heyden, Gesellschaft mit Beschränkter Haftung, Radebeul, Germany. Chemical and pharmaceutical preparations	32,451	Jan. 31	86	796
Chemische Fabrik von Heyden, Gesellschaft mit Beschränkter Haftung, Radebeul, Germany. Chemical and pharmaceutical preparations	32,452	Jan. 31	86	796
Chemische Thermo-Industrie Gesellschaft mit Beschränkter Haftung, Essen, Germany. Materials for sharpening, grinding, boring, and polishing	32,748	Apr. 18	87	512
Chevalier, Arsenius J., Columbus, Ohio. Lamp-wicks	33,433	Sept. 5	88	1894
Chicago-Rockford Hosiery Company, Kenosha, Wis. Knit hose	32,928	May 23	87	1393
Chicago Sewing Machine Company, Chicago, Ill. Sewing-machines	33,404	Aug. 22	88	1524
Chickering & Sons, New York, N. Y. Pianos and their parts	32,776	Apr. 25	87	693
Chipman, Holmes S., Sydney, New South Wales. Certain named agricultural implements	32,717	Apr. 11	87	356
Chipman, Holmes S., Sydney, New South Wales. Certain named medicines	33,540	Oct. 10	89	350
Chipman, Holmes S., Sydney, New South Wales. Certain named groceries	33,548	Oct. 10	89	351
Chipman-Pratt Company, Boston, Mass. Boots and shoes	32,583	Mar. 14	86	1802
Chisholm, Charles P., Oakville, Canada. Toilet powder	32,829	May 9	87	1069
Chisholm & Welsh, Pasadena, Cal. Liniment	32,998	May 30	87	1605
Christensen & Henderson, Madelia, Minn. Wheat-flour	32,445	Jan. 31	86	795
Christensen, Mendenhall & Graham, Duluth, Minn. Certain named dry goods, mens' furnishings, and blankets	32,824	May 9	87	1069
Christian, Feigenspan, Newark, N. J. Certain named malt liquors	33,593	Oct. 17	89	518
Church & Dwight Compauy, New York, N. Y. Baking-soda, either alone or mixed with a powdered acid, as is common to form a baking-powder	32,643	Mar. 28	86	2168
Church & Dwight Company, New York, N. Y. Baking-soda, either alone or mixed with a powdered acid, as is common to form a baking-powder	32,644	Mar. 28	86	2169
Churchill & Alden, Campello, Mass. Shoes	33,801	Nov. 28	89	1857
Cin-Co-Lery Co., Bristol, Va. Medicine for certain named diseases	32,374	Jan. 10	86	343
Clark & Co., G. Foster, Maidstone, England. Fruit juices	32,950	May 23	87	1395
Clark, Hannah K., Fool's Gulch, Ariz. Ter. Salves, ointments, and lotions	32,398	Jan. 17	86	488
Clark, Lauretta A., Scranton, Pa. Smoking and chewing tobacco	33,456	Sept. 12	88	2063
Clinton-Copeland Company, Burlington, Iowa. Cigars	33,855	Dec. 5	89	2066
Clotworthy, William P., Baltimore, Md. Laundry starch	32,515	Feb. 21	86	1320
Codman, Benjamin H., Boston, Mass. Tooth-powder	33,393	Aug. 22	88	1523
Codorus Paper Mills, Limited, York, Pa. Paper	32,859	May 16	87	1229
Coirre, Gaston P. D., Paris, France. Revulsive pencils against certain named diseases	32,707	Apr. 11	87	355
Cole, Alfred L., Minneapolis, Minn. Remedies for certain named diseases	33,669	Oct. 31	89	917
Cole's Cedar Créme Co., New York, N. Y. Foot remedies	33,395	Aug. 22	88	1523
College and Commissariat of the Holy Land, Brookland, D. C. Medals and badges	33,835	Dec. 5	89	2064
Collins Baking Company, Buffalo, N. Y. Bread and crackers	33,782	Nov. 21	89	1666
Collins, Willis E., Asheville, N. C. Prepared granulated wheat	33,748	Nov. 14	89	1339
Colt & Co., J. B., New York, N. Y. Acetylene generators, burners, and accessories	32,681	Apr. 4	87	178
Colt's Patent Fire Arms Manufacturing Company, Hartford, Conn. Firearms	32,536	Feb. 21	86	1322
Columbia Carriage Company, Hamilton, Ohio. Wheeled vehicles	33,351	Aug. 8	88	1156
Columbia Preserving Company, St. Louis, Mo. Certain named foods and relishes	33,513	Oct. 3	89	187
Columbia Refining Co., New York, N. Y. Paint-oils and paints	33,706	Nov. 7	89	1193
Columbus Brass Company, Columbus, Ohio. Certain named plumbers' supplies	33,407	Aug. 22	88	1524
Comfort Powder Company, Hartford, Conn. Soap, dentifrice, and hair preparations	32,703	Apr. 11	87	355
Commercial Typewriter Company, New York, N. Y. Type-writing machines	32,344	Jan. 10	86	341
Commercial Typewriter Company, New York, N. Y. Type-writing machines	32,345	Jan. 10	86	341
Commonwealth Manufacturing Company, of Portland, Me., and Everett, Mass. Chemical solvents for gums and oils	33,385	Aug. 15	88	1332
Conklin & Son, E. W., Binghamton, N. Y. Timothy-seed	33,873	Dec. 12	89	2257
Conklin & Son, E. W., Binghamton, N. Y. Timothy-seed	33,874	Dec. 12	89	2257
Conklin & Son, E. W., Binghamton, N. Y. Seed-corn	33,875	Dec. 12	89	2257
Conklin & Son, E. W., Binghamton, N. Y. Clover-seed	33,876	Dec. 12	89	2257
Conkling, Allen, Chicago, Ill. Chip laundry soap	32,324	Jan. 3	86	179
Conley, John H., Newark, N. J. Certain powder for the extermination of insects and vermin	32,653	Mar. 28	86	2169
Connellsville Manufacturing Company, Connellsville, Pa. Washing-tablets	32,745	Apr. 18	87	512
Consolidated Hame Co., Andover and Sunapee, N. H. Hames	33,008	May 30	87	1606
Consolidated Medicine Co., New York, N. Y. Cure for certain named diseases	32,802	May 2	87	889
Cousumers Park Brewing Company, New York, N. Y. Lager-beer, ale, and porter	33,658	Oct. 31	89	916
Cousumers Preserved Milk Company, New York and Fort Plain, N. Y. Condensed milk	32,605	Mar. 21	86	1980
Consumers Preserved Milk Company, New York, N. Y. Condensed milk	33,459	Sept. 12	88	2063
Consumers Preserved Milk Company, New York, N. Y. Condensed milk	33,656	Oct. 31	89	916
Cook's Sons, Adam, New York, N. Y. Lubricating compounds	33,919	Dec. 19	89	2458
Cooper, Wells & Company, St. Joseph, Mich. Hosiery	33,412	Aug. 29	88	1700
Corr, Bernard, Philadelphia, Pa. Rye whisky	32,421	Jan. 24	86	629
Cosmopolitan Incandescent Gas Light Company, Chicago, Ill. Incandescent mantles	33,951	Dec. 16	89	2651
Couch, George S., Minneapolis, Minn. Molasses candies	32,493	Feb. 14	86	1166
Cox & Bro., George S., Philadelphia, Pa. Haircloth	33,717	Nov. 7	89	1104
Craig, John E. (See Tabor and Craig.)				
Crandall Packing Company, Palmyra, N. Y. Packings	32,487	Feb. 7	86	994
Crane, Elijah J., Richmond, Va. Face-bleach	33,843	Dec. 5	89	2065
Crawford, McGregor & Canby Company, Dayton, Ohio. Certain named sportsmen's supply goods	32,542	Feb. 28	86	1494
Crawford, McGregor & Canby Company, Dayton, Ohio. Certain golf-supply goods	33,827	Nov. 28	89	1859
Creed, John M., and W. J. Green, Sydney, New South Wales. Medicinal preparation for certain named diseases	33,367	Aug. 15	88	1330
Crescent Gun Company, Saginaw, Mich. Air-rifles and spring-guns	33,493	Sept. 19	88	2240
Crescent Shoe Dressing Company, Bridgeport, Conu. Cleaners, paste polish, and liquid dressing.	32,369	Jan. 10	86	343
Crocker, Frank. (See Hungerford and Crocker.)				
Crolley, Harry W., Covington, Ky. Preparations for removal of hair	32,614	Mar. 21	86	1981
Crolley, Harry W., Covington, Ky. Preparation for the removal of hair	32,728	Apr. 18	87	510
Crown Milling Company, Faribault, Minn. Flour	33,552	Oct. 10	89	351
Crozer & Son, Samuel A., Upland, Pa. Cotton piece goods	33,451	Sept. 12	88	2063
Crumb, Owen L. (See Hovey and Crumb.)				
Crystal Water Company, Buffalo, N. Y. Certain named still and aerated waters	33,939	Dec. 26	89	2650
Cumberland Cereal Company, Cumberland, Md. Flour	33,877	Dec. 12	89	2258
Cummings, Edwin J., Philadelphia, Pa. Coal	32,853	May 9	87	1071
Cummings, Wilbur E., Los Angeles, Cal. Shoes	33,116	June 27	87	2316
Curtis & Cameron, Boston, Mass. Art prints	33,579	Oct. 17	89	517
Curtis & Cameron, Boston, Mass. Art prints	33,580	Oct. 17	89	517
Cutting, Mary S., East Orange, N. J. Candics	33,031	June 6	87	1778
D. M. Sechler Carriage Company, Moline, Ill. Corn-planters, drills, and harrows	33,637	Oct. 24	89	704
Dad Chemical Company, New York, N. Y. Tonic pills	33,826	Nov. 28	89	1859

Alphabetical list of registrants of trade-marks—Continued.

Name, residence, and title.	No.	Date.	Official Gazette. Vol.	Page.
Dadirrian, Marker G., New York, N. Y. Fermented milk food	33,218	July 11	88	383
Dahm & Co., Hamburg, Germany. Medicinal and remedial sulfo compounds for internal and external use	32,576	Mar. 7	86	1632
Dahm & Co., Hamburg, Germany. Veterinary remedial agents	32,577	Mar. 7	86	1632
Dalsimer & Sons, Sylvan, Philadelphia, Pa. Bicycles and parts thereof	32,336	Jan. 3	86	180
Davis & Co., H. E., Freeport, Me. Boots and shoes	33,763	Nov. 21	89	1664
Day & Weller, New York, N. Y. Pharmaceutical preparations	33,850	Dec. 5	89	2065
De Lery Light Company, Jersey City, N. J., and New York, N. Y. Burners for incandescent gas-lighting	32,401	Jan. 17	86	488
Decker, Frederick C., West Florence, Ohio. Remedy for hog-cholera	32,560	Feb. 28	86	1496
Deimel Bros. & Company, New York, N. Y. Stomach-bitters	32,840	May 9	87	1070
Demuth, William, New York, N. Y. Tobacco-pipes, cigar-holders, cigarette-holders, and cigarette-papers	32,423	Jan. 24	86	630
Denison, Wakeman & Co., New York, N. Y. Whisky	32,476	Feb. 7	86	993
Denn, Henry, Columbus, Ohio. Medicines for the cure of rheumatism and kidney and liver diseases	32,710	Apr. 11	87	356
Denson, Willis H., Corning, N. Y. Puzzle	32,624	Mar. 28	86	2167
Denton, Fred L., Holmes, N. Y. Liniment	32,937	May 23	87	1394
Derma Therapia & Co., Omaha, Nebr. Ointment for certain named diseases	33,370	Aug. 15	88	1330
Dermatine Company, Limited, London, England. Certain named mechanical goods	32,716	Apr. 11	87	356
Detroit Graphite Manufacturing Company, Detroit, Mich. Paints, lubricants, and cements	32,714	Apr. 11	87	356
Diamond Crystal Salt Company, St. Clair, Mich. Table-salt	33,464	Sept. 12	88	2064
Diggs, Jesse F., Baltimore, Md. Sewing-machines	33,009	May 30	87	1606
Dill & Collins, Philadelphia, Pa. Certain named papers	33,804	Nov. 28	89	1857
Diner, Jacob, New York, N. Y. Toilet powder for the skin and teeth	33,157	June 27	87	2320
Doane & Co., J. W., Chicago, Ill. Tea	32,475	Feb. 7	86	993
Dobell & Co., G. C., Liverpool, England. Certain named foods and relishes	32,947	May 23	87	1395
Dodwell & Company, Limited, London, England; Hong Kong, Shanghai, Foochoo, and Hankow, China; Yokohama and Kobe, Japan; Colombo, Ceylon; Victoria and Vancouver, Canada; Portland, Oreg., and Tacoma, Wash. Wheat-flour	33,627	Oct. 24	89	703
Dodwell & Company, Limited, London, England; Portland, Oreg.; Tacoma, Wash.; Victoria and Vancouver, Canada; Yokohama and Kobe, Japan; Hong-Kong, Shanghai, Foochow, and Hankow, China, and Colombo, Ceylon. Wheat-flour	33,857	Dec. 5	89	2066
Dolan, Edward J., Philadelphia, Pa. Vehicle and bicycle lamps	32,819	May 2	87	890
Donmeyer, Gardner & Co., Peoria, Ill. Wheat-flour	33,040	June 6	87	1779
Donmeyer, Gardner & Co., Peoria, Ill. Wheat-flour	33,041	June 6	87	1779
Dörr & Co., Clemens, Germersheim, Germany. Artificial stone	33,449	Sept. 5	88	1896
Dowd & Co., J. C., New York, N. Y. Certain named enameled ware	32,820	May 2	87	890
Dowie, Eben, and J. M. Oxley, Montreal, Canada. Vermin and insect exterminator	32,727	Apr. 18	87	510
Dowie, Eben, and J. M. Oxley, Montreal, Canada. Mixed foods for horses, cattle, and farm-stock	32,744	Apr. 18	87	512
Downing, Jacob, Denver, Colo. Liniments, powders, and pills	33,514	Oct. 3	89	187
Dr. A. H. Keller Chemical Company, Sioux Falls, S. D. Antiseptic and a remedy for certain named diseases	32,801	May 2	87	888
Dr. J. Parker Pray Company, New York, N. Y. Finger-nail polish	33,357	Aug. 15	88	1329
Dr. J. Parker Pray Company, New York, N. Y. Cosmetics	33,358	Aug. 15	88	1329
Dr. J. Parker Pray Company, New York, N. Y. Certain named toilet preparation	33,359	Aug. 15	88	1329
Dr. Tibbles' Vi-Cocoa, Limited, London, England. Cocoa and chocolate and preparations thereof	32,956	May 23	87	1395
Drake & Rhodes Co., Limited, Marshall, Mich. Medicinal tablet for certain named diseases	32,665	Apr. 4	87	176
Draper Company, Hopedale, Mass. Loom-temples and their parts	32,719	Apr. 11	87	356
Draper, John S., Perry, Iowa Wines and spirituous liquors	33,138	June 27	87	2318
Draper & Palmer, Philadelphia, Pa. Chemical preparation for certain named purposes	33,002	May 30	87	1605
Drucklieb & Co., J. C., New York, N. Y. Steam-injectors	33,012	May 30	87	1606
Dubos Frères et Cie., A. & J., Bordeaux, France. Wine, spirits, liqueurs, and olive-oil	33,809	Nov. 28	89	1858
Dubuque Brewing and Malting Company, Dubuque, Iowa. Bottled lager-beer	33,398	Aug. 22	88	1523
Dudley, Horace A., Hornellsville, N. Y. Remedy for colds	32,708	Apr. 11	87	356
Dudley, Plimmon H., New York, N. Y. Certain named instruments of precision	32,715	Apr. 11	87	356
Dudley, William B., New York, N. Y. Dried and canned provisions	32,358	Jan. 10	86	342
Dugué, Adolfo, New Orleans, La. Syrups and molasses	32,571	Mar. 7	86	1631
Dunkley Celery and Preserving Company, Kalamazoo, Mich. Certain named medicines	32,731	Apr. 18	87	511
Duquesne Distributing Co., Harmarville, Pa. Mineral water	32,873	May 16	87	1230
Duryee & Barwise, New York, N. Y. Roasted coffee	33,069	June 13	87	1956
Duryee & Barwise, New York, N. Y. Roasted coffee	33,695	Nov. 7	89	1138
E. C. Flaccus Company, Wheeling, W. Va. Certain named table relishes, fruits, and vegetables	33,884	Dec. 12	89	2257
E. H. Jacobs Manufacturing Company, Danielson, Conn. Loom-pickers	33,167	June 27	87	2321
E. H. Jacobs Manufacturing Company, Danielson, Conn. Loom-pickers	33,168	June 27	87	2321
E. Seidenberg, Stiefel & Company, New York, N. Y. Cigars	32,974	May 30	87	1603
E. Seidenberg, Stiefel & Company, New York, N. Y. Cigars	32,975	May 30	87	1603
Eagle Pencil Company, New York, N. Y. Metallic pens	33,200	July 11	88	382
Eagle Starch Co., Providence, R. I. Laundry-starch	32,990	May 30	87	1604
Eastman Kodak Company, Rochester, N. Y. Printing-out paper	32,489	Feb. 14	86	1166
Eaton, William L., New York, N. Y. Insecticides and disinfectants	33,585	Oct. 17	89	517
Eberson, Alexander A., St. Louis, Mo. Certain named paints	32,513	Feb. 21	86	1320
Eclipse Cement and Blacking Company, Philadelphia, Pa. Cement for certain named purposes	33,877	Dec. 12	89	2257
Edmonds, Newton, Washington, D. C. Toilet preparation	32,669	Apr. 4	87	177
Edson, Moore & Co., Detroit, Mich. Women's shirt-waists, wrappers, and skirts	32,468	Feb. 7	86	992
Edwards, Charles N., Dorrancetown, Pa. Medicine for the cure of grip and rheumatism	32,664	Apr. 4	87	176
Ehmann Olive Company, Oakland, Cal. Olives	33,213	July 11	88	383
Eiermann & Tabor, Fürth, Germany. Bronces, brocades, and bronce colors	33,023	June 6	87	1778
Eiermann & Tabor, Fürth, Germany. Bronces, brocades, and bronce colors	33,024	June 6	87	1778
Eiermann & Tabor, Fürth, Germany. Bronces, brocades, and bronce colors	33,025	June 6	87	1778
Eiweiss-u. Fleisch Extract Cie., Altona-Hamburg, Germany. Albumin manufactured from meat or albumin-holding substances	32,837	May 9	87	1070
Eldred, William H., Chicago, Ill. Liniment	33,852	Dec. 5	89	2055
Electric Appliance Company, Chicago, Ill. Certain named electrical goods and appliances	33,523	Oct. 3	89	188
Electro-Neurotone Company, Limited, London, England. Electrical apparatus	33,524	Oct. 3	89	188
Electrozone Company, New York, N. Y. Medicinal antiseptic lotion for certain named diseases	32,842	May 9	87	1070
Electus Glove Button Shoe Company, Baltimore, Md. Stud-and-cap fasteners	33,712	Nov. 7	89	1139
Elgin Breakfast Food Company, Chicago, Ill. Cereal breakfast foods	32,817	May 2	87	890
Elgin National Watch Company, Chicago, Ill. Watches	32,311	Jan. 3	86	178
Elgin National Watch Company, Chicago, Ill. Watches	32,918	May 23	87	1392
Elgin National Watch Company, Chicago, Ill. Watches	33,867	Dec. 12	89	2256
Elias, Salim, New York, N. Y. Razors	33,711	Nov. 7	89	1139
Elias, Salim, New York, N. Y. Fire-kindlers	33,797	Nov. 21	89	1668
Elkinton, Joseph S. & Thomas, Philadelphia, Pa. Toilet and laundry soaps	32,704	Apr. 11	87	355
Ellinger, Isaac, Baltimore, Md. Remedy for all effects of a disordered stomach	32,709	Apr. 11	87	356
Ely & Walker Dry Goods Company, St. Louis, Mo. Cotton goods	33,352	Aug. 15	88	1329

Alphabetical list of registrants of trade-marks—Continued.

Name, residence, and title.	No.	Date.	Official Gazette. Vol.	Page.
Emery, Bessie, Cleveland, Ohio. Hair tonics and lotions	33,626	Oct. 24	89	703
Empire Egg Maker Co., Vergennes, Vt. Poultry-food	33,888	Dec. 12	89	2258
Enck. William C., Lititz, Pa. Medicated tablets or confections	32,651	Mar. 28	86	2169
Enderle, Adolph G., St. Louis, Mo. Medicinal tablets	32,936	May 23	87	1393
Enterprise Soap Works, Nashville, Tenn. Toilet-soap	33,632	Oct. 24	89	703
"Era" Incandescent Oil Lamp Company, Limited, London, England. Certain named lamp appliances	33,525	Oct. 3	89	188
Erie Preserving Company, Buffalo, N. Y. Certain canned and preserved goods and food condiments	33,036	June 6	87	1778
Eschmann, Frederick W. R., Yonkers, N. Y. Nutritive compound	32,389	Jan. 17	86	487
Eschwege & Cohn, New York, N. Y. Certain named hair supporting and fastening devices	33,302	Aug. 8	88	1151
Esterbrook Steel Pen Manufacturing Company, Camden, N. J., and New York, N. Y. Metallic pens	32,919	May 23	87	1392
Eumetra Pharmacal Co., Detroit, Mich. Remedy for certain named diseases	32,847	May 9	87	1071
Excelsior Mill Company, Yankton, S. D. Wheat-flour	33,441	Sept. 5	88	1895
Expello Manufacturing Co., Chicago, Ill. Medicine for certain named diseases	33,098	June 20	87	2115
F. O. Pierce Company, New York, N. Y. Leads, zincs, and mixed paints	32,635	Mar. 28	86	2168
F. O. Pierce Company, New York, N. Y. Leads, zincs, and mixed paints	32,636	Mar. 28	86	2168
Fahys Watch Case Company, Sag Harbor, N. Y. Watchcases	32,625	Mar. 28	86	2167
Fahys Watch Case Company, Sag Harbor, N. Y. Watchcases	32,686	Apr. 11	87	354
Fairchild Bros. & Foster, Elizabeth, N. J., and New York, N. Y. Tonic	32,649	Mar. 28	86	2169
Fairchild Bros. & Foster, Elizabeth, N. J., and New York, N. Y. Medicinal and chemical substances and remedies in the form of tablets, disks, and pills	32.650	Mar. 28	86	2169
Fairchild, Rebecca L., Buffalo, N. Y. Hand-dusters for household use	33,709	Nov. 7	89	1139
Fairbaven Canning Company, Fairhaven, Wash. Canned salmon	33,084	June 20	87	2114
Fairhaven Canning Company, Fairhaven, Wash. Canned salmon	33,085	June 20	87	2114
Falk, Martin, Hamburg, Germany. Candles	33,752	Nov. 14	89	1340
Farbenfabriken of Elberfeld Company, New York, N. Y. Antihydroticum	32,736	Apr. 18	87	511
Farbenfabriken of Elberfeld Company, New York, N. Y. Antirheumatic	32,805	May 2	87	889
Farbenfabriken of Elberfeld Company, New York, N. Y. Internal antiseptic	33,521	Oct. 3	89	188
Farbenfabriken of Elberfeld Company, New York, N. Y. Certain named pharmaceutical compound	33,893	Dec. 12	89	2258
Farbenfabriken of Elberfeld Company, New York, N. Y. New hypnotic	33,894	Dec. 12	89	2258
Farbenfabriken of Elberfeld Company, New York, N. Y. Pharmaceutical and dietetical preparation	33,913	Dec. 19	89	2458
Farbenfabriken of Elberfeld Company, New York, N. Y. Vermifuge	33,949	Dec. 26	89	2651
Farber, Frederick M., New York, N. Y. Hosiery	32,785	May 2	87	887
Farrell, Hiram G., Peoria, Ill. Liniments	33,917	Dec. 19	89	2458
Farwell & Rhines, Watertown, N. Y. Cereal food for domestic use	33,596	Oct. 17	89	519
Fehler, Peter, Baltimore, Md. Non-alcoholic soda beverage	32.589	Mar. 14	86	1802
Fehler, Peter, Baltimore, Md. Non-alcoholic soda beverage	32,874	May 16	87	1230
Feilchenfeld Bros., Chicago, Ill. Certain named groceries	32,417	Jan. 24	86	629
Feilchenfeld Bros., Chicago, Ill. Certain named groceries	32,945	May 23	87	1394
Fellheimer & Co., New York, N. Y. Corsets	32,469	Feb. 7	86	993
Felten & Guilleaume, Mülheim-on-tbe-Rhine, Germany. Wire strings for musical instruments	33,506	Oct. 3	89	186
Ferry & Napier, New York, N. Y. Hats	32,783	May 2	87	887
Ferry & Napier, New York, N. Y. Hats	32,784	May 2	87	887
Fever Tea Company, Chicago, Ill. Compound of herbs for making a fever-tea	32,612	Mar. 21	86	1980
"Fin-de-Cycle" Rack Company, Great Barrington, Mass. Bicycle-racks	32,621	Mar. 21	86	1981
Findlay & Battle, New York, N. Y. Antifriction and Babbitt metal	33,608	Oct. 17	89	520
Finney, Andrew G., Wilkes-Barré, Pa. Certain named medical compound	33,948	Dec. 26	89	2651
Fire Extinguisher Manufacturing Company, New York, N. Y. Fire-extinguishers, chemical-engines, and hand-grenades and attachments therefor	33,703	Nov. 7	89	1139
Fireproofine Company, New York, N. Y. Certain named chemical composition of matter	33,470	Sept. 12	88	2064
Fisher & Co., Nathl., New York, N. Y. Boots and shoes	32,970	May 30	87	1602
Fitzgerald, John, Jr., Halifax, Canada. Cleaning compounds for textile materials	33,383	Aug. 15	88	1331
Flame-Proof Company, Jersey City, N. J., and New York, N. Y. Certain named flame-proof products	33,878	Dec. 12	89	2257
Fletcher, Willard G., Williamsburg, Iowa. Certain named toilet preparations	33,846	Dec. 5	89	2065
Foley Bros. & Kelly Mercantile Company, St. Paul, Minn. Certain named grocers' goods	33,250	July 18	88	543
Foley & Company, Chicago, Ill. Salves for certain named diseases	32,655	Mar. 28	86	2170
Folloner, Clagg & Company, Lancaster, Pa. Umbrellas, parasols, canes, and their parts	33,570	Oct. 17	89	516
Foo & Wing Herb Co., Los Angeles, Cal. Certain named medicinal herbs and medicines	32,561	Feb. 28	86	1496
Forest City Electric Company, Cleveland, Ohio. Rail-bonds	32,782	Apr. 25	87	694
Fougerat, Jean, Levallois-Perret, France. Remedy for certain named diseases	32,888	May 16	87	1231
Fowler, Frank C., Moodus, Conn. Gun-wads	32,426	Jan. 24	86	630
Fox Gun Company, Baltimore, Md. Breech-loading or breakdown hammerless shotguns	32,508	Feb. 14	86	1168
Francis & Company, Limited, London, England. Portland cement	33,922	Dec. 19	89	2458
Frazee, Charles F., Pittsburg, Pa. Stogies and cigars	33,785	Nov. 21	89	1666
Frederick Stearns & Company, Detroit, Mich. Perfumery	32,758	Apr. 25	87	692
Fremy, Lucien, Fils, Chalonnes, France. Liqueur made with cherries	33,810	Nov. 28	89	1858
Fruitcin Company, New York, N. Y. Medicine for certain named diseases	32,733	Apr. 18	87	511
Fruitcin Company, New York, N. Y. Medicine for certain named diseases	32,734	Apr. 18	87	511
G. F. Harvey Company, Saratoga Springs, N. Y. Ointment	32,376	Jan. 10	86	344
Gale Manufacturing Company, Albion, Mich. Plows and their parts	32,402	Jan. 17	86	488
Gallogly & Co., E. E., Butte, Mont. Face-cream	33,771	Nov. 21	89	1665
Garcia, Mariano R., San Antonio, Tex. Preparation for the cure of rheumatism	33,692	Nov. 7	89	1137
Garden, William A., Sioux City, Iowa. Liniment, salve, ointment, and pile cure	33,734	Nov. 14	89	1383
Gardner, Oliver L., New York, N. Y. Artificial lumber	32,352	Jan. 10	86	341
Garrett, Paul, Chockoyotte, N. C., and Memphis, Tenn. Scuppernong wine and blackberry wine	32,875	May 16	87	1230
Garrett Williams Company, Baltimore, Md. Whisky	32,646	Mar. 28	86	2169
Garrettson & Co., F. P., Newport, R. I., and New York, N. Y. Hams	33,084	June 6	87	1778
Garrettson & Co., F. P., Newport, R. I., and New York, N. Y. Coffee	33,088	June 20	87	2114
Garrettson & Co., F. P., Newport, R. I., and New York, N. Y. Tea	33,089	June 20	87	2114
Garrettson & Co., F. P., Newport, R. I., and New York, N. Y. Tea	33,090	June 20	87	2114
Garrettson & Co., F. P., Newport, R. I., and New York, N. Y. Tea	33,091	June 20	87	2114
Gaslin, John W., Belle Vernon, Pa. Salves	33,918	Dec. 19	89	2458
Gault, Harry R., Kittanning, Pa. Salves and ointments	33,048	June 6	87	1779
Gazley, Edwin W., Rockdale, Tex. Liver medicine	33,145	June 27	87	2319
Gebhardt Chili Powder Co., San Antonio, Tex. Chili spice preparations	32,329	Jan. 3	86	180
Gem City Stove Manufacturing Company, Quincy, Ill. Heating-stoves and cooking-stoves	32,543	Feb. 28	86	1494
General Incandescent Arc Light Company, New York, N. Y. Electrical machinery, lamps, devices, and appliances	32,855	May 9	87	1072
Geo. A. Newman Company, Louisville, Ky. Nerve and nutritive tonic	33,588	Oct. 17	89	518
Geo. Borgfeldt & Company, New York, N. Y. Musical instruments and their accessories	33,112	June 27	87	2316
Geo. Borgfeldt & Company, New York, N. Y. Violin-strings	33,505	Oct. 3	89	186

Alphabetical list of registrants of trade-marks—Continued.

Name, residence, and title.	No.	Date.	Official Gazette. Vol.	Page.
Geo. Borgfeldt & Company, New York, N. Y. Dolls and toys	33,924	Dec. 26	89	2648
Geo. E. Keith Company, Brockton, Mass. Boots and shoes	32,471	Feb. 7	86	993
Geo. P. Plant Milling Company, St. Louis, Mo. Wheat-flour	32,361	Jan. 10	86	342
George, Philip T., Jr., Philadelphia, Pa. Harness, axle, and hoof oils	32,591	Mar. 14	86	1302
George W. Wiedenmayer, Incorporated, Newark, N. J. Draft and bottled ale	32,355	Jan. 10	86	341
Georges & Son, J. J., Washington, D. C. Corn and bunion shields	33,082	June 20	87	2113
Gerber, Nicholas, Zurich, Switzerland. Certain named measuring instruments	33,955	Dec. 26	89	2652
Gerstendorfer Bros., New York, N. Y. Gold enamel or gold paint	32,899	May 16	87	1232
Gery, Albert G., Reading, Pa. Hog, chicken, and cattle powders	32,796	May 2	87	888
Geschicktier, Rose, Washington, D. C. Furniture-polish	32,331	Jan. 3	86	180
Gibbon & Son, C. D., Philadelphia, Pa. Ladies' shoes	32,490	Feb. 14	86	1166
Gilliam Manufacturing Company, Canton, Ohio. Horse-boots	33,007	May 30	87	1606
Gilman, Benjamin I., Newton, Mass. Match-cases	33,872	Dec. 12	89	2257
Glasgow Plate Glass Co., Glasgow, Scotland. Rolled plate-glass	33,165	June 27	87	2121
Glidden Varnish Company, Cleveland, Ohio. Liquid wood-filler	32,620	Mar. 21	86	1981
Glyco-Metall-Gesellschaft, Wiesbaden, Germany. Antifrictiou metal	32,427	Jan. 24	86	630
Goddard Grocer Company, St. Louis, Mo. Farinaceous foods	33,750	Nov. 14	89	1339
Goetz, Frank, Manchester, Conn. Certain named bakers' supplies	33,461	Sept. 12	88	2064
Goldsmith, Gustave, New York, N. Y. Flux for jewelers, silversmiths, and copper and brass workers	33,700	Nov. 7	89	1138
Goodwill Chemical Company, Baltimore, Md. Remedy for skin eruptions	33,842	Dec. 5	89	2065
Goodyear Rubber Company, New York and Buffalo, N. Y.; St. Louis and Kansas City, Mo.; Chicago, Ill.; Milwaukee, Wis.; Minneapolis and St. Paul, Minn.; San Francisco, Cal.; Portland, Oreg., and Washiugton, D. C. Rubber boots	33,575	Oct. 17	89	517
Gorham Manufacturing Company, Providence, R. I. Certain named silverware	33,902	Dec. 19	89	2457
Gorham Manufacturing Company, Providence, R. I. Certain named silverware	33,903	Dec. 19	89	2457
Gosman Ginger Ale Company, Baltimore, Md. Ginger-ale	33,620	Oct. 24	89	703
Gourd, Henry E., New York, N. Y. Salts	32,613	Mar. 21	86	1980
Graft, John C., and W. Rodemann, Newark, N. J. Dental molding compounds	33,062	June 13	87	1955
Graham, Pierce L., Zanesville, Ohio. Flavoring extracts	33,655	Oct. 31	89	916
Grand Rapids School Furniture Company, Grand Rapids, Mich. Carpet-sweepers	33,055	Juue 6	87	1780
Grant, George, Maisonneuve, Canada. Medical composition for certaiu named diseases	32,738	Apr. 18	87	511
Gray & Dudley Hardware Company, Nashville, Tenn. Certain named articles of hardware	33,282	July 25	88	714
Gray & Dudley Hardware Company, Nashville, Tenn. Certain named hardware	33,906	Dec. 19	89	2457
Grebb, Louis, Baltimore, Md. Certain named canned goods	32,948	May 23	87	1395
Greeu, William J. (See Creed and Green.)				
Green, William L., Ironwood, Mich. Wheat-flour	32,557	Feb. 28	86	1495
Greenlee, James N., Fort Smith, Ark. Medicinal compound for certain named diseases	33,848	Dec. 5	89	2065
Grieb, William G., Philadelphia, Pa. Rubber heels or soles	32,755	Apr. 25	87	691
Grocers Supply Co., Richmond, Va. Baking-powder	32,444	Jan. 31	86	795
Grout, Martin B. (See Moore and Grout.)				
Grueby Faience Compauy, Boston, Mass. Certain named pottery	33,905	Dec. 19	89	2457
Gwinn, Henry H., Louisville, Ky. Medicine for purifying the blood	32,395	Jan. 17	86	487
H. Channon Company, Chicago, Ill. Metal	33,792	Nov. 21	89	1667
H. Channon Company, Chicago, Ill. Rope-dressing	33,923	Dec. 19	89	2458
H. & H. Chemical Co., Scranton, Pa. Medical compound for the cure of certaiu named diseases	33,466	Sept. 12	88	2064
H. Hackfeld & Company, Limited, Honolulu, Hawaii. Coffee	32,638	Mar. 28	86	2168
H-O (Hornby's Oatmeal) Company, New York, N. Y. Oatmeal, including rolled or ground oats	32,325	Jan. 3	86	179
H-O (Hornby's Oatmeal) Company, New York, N. Y. Cereal food products	32,989	May 30	87	1604
H. P. Finlay & Company, Limited, New York, N. Y. Certain named beverages	33,266	July 25	88	713
Hafertepen, Edwin B., Cincinnati, Ohio. Shoes	33,455	Sept. 12	88	2063
Hagadorn, Levi, Oneonta, N. Y. Medicine for diseases of live stock	33,479	Sept. 19	88	2239
Hahne & Co., Newark, N. J. Certain named canned goods and jellies	32,362	Jan. 10	86	342
Hahne & Co., Newark, N. J. Certain named relishes	32,363	Jan. 10	86	342
Hahne & Co., Newark, N. J. Certain named groceries	32,364	Jan. 10	86	342
Hahne & Co., Newark, N. J. Certain named dairy products	32,365	Jan. 10	86	342
Hall & Co., T. B., Liverpool, England. Certain named beverages	33,630	Oct. 24	89	703
Hall, Ernest W., Waco, Tex. Remedy for certain named diseases	32,845	May 9	87	1071
Hall, Robert L., Detroit, Mich. Soap	33,661	Oct. 31	89	917
Hall, Rolfe D., Manchester, Va. Cigars and cheroots	32,768	Apr. 25	87	692
Haller-Kemper Company, Chicago, Ill. Sensitizing material	33,018	Juno 6	87	1777
Haller, Kemper Company, Chicago, Ill. Sensitized paper	33,409	Aug. 29	88	1700
Halsted, William D., Milwaukee, Wis. Cylinder-oil	33,562	Oct. 10	89	352
Hamburger & Company, New York, N. Y. Perfumed ribbons	32,627	Mar. 28	86	2167
Hamburger & Company, New York, N. Y. Perfumed ribbons	32,690	Apr. 11	87	354
Hamer, Henry H., Vermont, Ill. Liniment for certain named ailments	32,997	May 30	87	1605
Hammond, Lemuel H., Worcester, Mass. Remedy for seasickness and car sickness	32,519	Feb. 21	86	1321
Hance Bros. & White, Philadelphia, Pa. Medicinal preparations	32,320	Jan. 3	86	179
Hance Bros. & White, Philadelphia, Pa. Solution tablets for certain named diseases	32,480	Feb. 7	86	994
Hance Bros. & White, Philadelphia, Pa. Remedies for certain named diseases	33,517	Oct. 3	89	187
Hand, David B., Scranton, Pa. Condensed milk with phosphates and hypophosphates added	33,071	June 13	87	1956
Hanna Paint Manufacturing Company, Columbus, Ohio. House-paint	33,788	Nov. 21	89	1667
Hannoversche Gummi-Kamm-Compagnie Actien-Gesellschaft, Hanover, Germany. Hair-combs	33,646	Oct. 31	89	915
Harding, Whitman & Co., New York, N. Y., and Boston, Mass. Cotton cloth with a silk finish	32,969	May 30	87	1602
Harper, Thomas, Redditch, England. Needles	33,230	July 18	88	542
Harris, David, Rochester, N. Y. Cigars	32,610	Mar. 21	86	1980
Harris Suspender Co., New York, N. Y. Suspenders and braces	33,304	Aug. 8	88	1151
Harrisburg Boot and Shoe Manufacturing Company, Limited, Harrisburg, Pa. Boots and shoes	33,177	July 4	88	188
Harrison, William H. (See Rowland and Harrison.)				
Harrop, Gist & Co., Orange, N. J. Felt hats	33,571	Oct. 17	89	516
Harrop, Gist & Co., Orange, N. J. Felt hats	33,572	Oct. 17	89	516
Hartmann & Fehrenbach Brewing Company, Wilmington, Del. Beer	33,631	Oct. 24	89	703
Harvey, John C., Halifax, England. Sugar-free pale ale	32,572	Mar. 7	86	1632
Harvey & Outerbridge, New York, N. Y. Fish	33,254	July 18	88	544
Harvey & Outerbridge, New York, N. Y. Fish	33,273	July 25	88	714
Hatch, Nathan, Albany, N. Y. Underwear	33,800	Nov. 28	89	1857
Hattervig, Osmond O., Hooker, S. D. Remedy for certain named diseases of cattle	33,847	Dec. 5	89	2065
Haustgen, Georges & Henri, Paris, France. Kid and other leather gloves	32,600	Mar. 21	86	1979
Hay & Todd Manufacturing Company, Ypsilanti, Mich. Underwear	32,340	Jan. 10	86	340
Hay & Todd Manufacturing Company, Ypsilanti, Mich., and New York, N. Y. Knit goods or underwear	32,511	Feb. 21	86	1320
Hayes-Partridge Shoe Company, Philadelphia, Pa. Shoes	32,470	Feb. 7	86	993
Haystead, William, Woodstock, Canada. Medicine for growing hoofs on horses	33,206	July 11	88	382
Hazard Manufacturing Company, Wilkes-Barré, Pa. Certain named wires and cables	33,841	Dec. 5	89	2064
Health Tobacco Company, New York, N. Y. Certain named manufactured tobaccos	33,182	July 4	88	188
Heath & Milligan Manufacturing Company, Chicago, Ill. White lead	33,295	Aug. 1	88	944

Alphabetical list of registrants of trade-marks—Continued.

Name, residence, and title.	No.	Date.	Official Gazette. Vol.	Page.
Heath & Sons, Henry R., Fort Dodge, Iowa. Rolled oats and oatmeal	33,497	Sept. 26	88	2408
Heather Bloom Co., San Francisco, Cal. Blood-purifying remedies	32,992	May 30	87	1604
Hedgeland, Frederick W., Chicago, Ill. Acetylene-gas lamps	33,488	Sept. 19	88	2240
Heide, Henry, New York, N. Y. Confectionery	32,606	Mar. 21	86	1980
Heinz, Henry J., Pittsburg, Pa. Certain named food products	33,551	Oct. 10	89	351
Hempstead, Harry N., Meadville, Pa. Chewing-gum	32,877	May 16	87	1230
Henderson Woolen Mills, Heuderson, Ky. Trousers	32,825	May 9	87	1069
Henke, Elizabeth, Stanley, Wis. Remedy for dropsy	33,426	Aug. 29	88	1701
Henry Tate & Sons, Limited, London, England. Refined sugars	32,473	Feb. 7	86	993
Henshaw, Henry W., Zelienople, Pa. Pile remedy	33,194	July 4	88	190
Hermau, Douglas. (See Ballard and Herman.)				
Herrick & Co., G. W., Lynn, Mass. Women's shoes	32,601	Mar. 21	86	1979
Heublein & Bro., G. F., Hartford, Conn. Whisky	32,979	May 30	87	1603
Heublein & Bro., G. F., Hartford, Conn. Whisky	32,980	May 30	87	1603
Heublein & Bro., G. F., Hartford, Conn. Flavoring materials	33,316	Aug. 8	88	1153
Hewlett & Lee, New York, N. Y. Cotton cloth	32,466	Feb. 7	86	992
Hewlett & Lee, New York, N. Y. Cotton cloth	32,467	Feb. 7	86	992
Hewlett & Lee, New York, N. Y. Cotton cloth	32,691	Apr. 11	87	354
Heydt Bakery Company, St. Louis, Mo. Bread and cake	33,401	Aug. 22	88	1524
Heywood Boot and Shoe Company, Worcester, Mass. Boots, shoes, and lasts	32,628	Mar. 28	86	2167
Hi-Hi Bitters Company, Rock Island, Ill. Medicinal bitters	33,140	June 27	87	2318
Hibbard, Spencer, Bartlett & Company, Chicago, Ill. Enameled steel and iron ware	33,760	Nov. 14	89	1340
Hicks, Henry T., Raleigh, N. C. Headache cure	32,391	Jan. 17	86	487
Higgins, Charles D., Greensborough, N. C. Liver-pills	33,394	Aug. 22	88	1523
Hill & Co., Thos. G., Manchester, England. Certain named dry goods	33,306	Aug. 8	88	1151
Hill & Co., Thos. G., Manchester, England. Certain named dry goods	33,307	Aug. 8	88	1152
Hill & Co., Thos. G., Manchester, England. Certain named dry goods	33,308	Aug. 8	88	1152
Hill & Co., Thos. G., Manchester, England. Certain named dry goods	33,529	Oct. 3	89	188
Hill, Thomas J., The Dalles, Oreg. Remedies for certain named diseases	33,193	July 4	88	189
Hillabrandt, Clement S., Gloversville, N. Y. Ointment	33,770	Nov. 21	89	1665
Hinde & Dauch, Sandusky, Ohio. Cartons for bottles and other fragile articles	32,827	May 9	87	1069
Hine & Lynch, New York, N. Y. Leather and footwear made of leather	33,837	Dec. 5	89	2064
Hines & Co., G. C., Boston, Mass. Non-alcoholic ginger cordials	33,137	June 27	87	2318
Hirsch, Firm of Louis, Gera, Germany. Imitation beige or vigoreux	32,864	May 16	87	1229
Hislop, John, Montreal, Canada. Cure for a certain named disease	32,846	May 9	87	1071
Hobby, Cicero M., San Diego, Cal. Certain named sanitary supplies	33,828	Nov. 28	89	1860
Hodge, Alfred, New York, N. Y. Indoor games	33,871	Dec. 12	89	2256
Hoeveler, Joseph H., Pittsburg, Pa. Wine for medicinal purposes	33,139	June 27	87	2318
Hoffman & Co., Red Hook, N. Y. Fine-cut chewing-tobacco	33,508	Oct. 3	89	186
Hoffmann-La Roche & Cie., F., Basle, Switzerland. Remedy for phthisis	32,563	Feb. 28	86	1496
Hoffmann-La Roche & Co., F., Basle, Switzerland. Antiseptic	32,892	May 16	87	1232
Hoffmann's Stärkefabriken, Salzuflen, Germany. Rice-powder, rice-starch powder, starch, and starch-powder	32,700	Apr. 11	87	355
Hollis, Thomas, Boston, Mass. Receptacle for tooth-powder	32,399	Jan. 17	86	488
Holste & Co., C., Munich, Germany. Leather gloves	32,380	Jan. 17	86	486
Holt & Co., New York, N. Y. Flour	32,558	Feb. 28	86	1495
Holt & Co., New York, N. Y. Flour	32,559	Feb. 28	86	1495
Holtiu, Henry C., Hoboken, N. J. Medicines in lozenge and liquid form	33,690	Nov. 7	89	1137
Horlick, William, Racine, Wis. Malted dry food extracts	32,388	Jan. 17	86	487
Hose, William, Diss, and F. W. Partridge, London, England. Liquid composition for leather	32,548	Feb. 28	86	1495
Hovey, Charles C., and O. L. Crumb, Bainbridge, N. Y. Certain sizing material used in manufacturing paper	33,819	Nov. 28	89	1859
Howard Bros., Buffalo, N. Y. Eye-salve, pile remedy, and cough cure	32,375	Jan. 10	86	344
Howard & Co., I. R., Richmond, Ind. Certain named groceries	33,859	Dec. 5	89	2066
Howell, Alice W., New York, N. Y. Salve	32,574	Mar. 7	86	1632
Hoyes, Harry A., Newport and West Cowes, Isle of Wight. Medicinal embrocation for human use	32,412	Jan. 24	86	628
Hudnut Company, Terre Haute and Mount Vernon, Ind., and St. Joseph, Mo. Corn products	33,249	July 18	88	543
Hulman & Co., Terre Haute, Ind. Certain named canned goods	33,127	June 27	87	2317
Hulman & Co., Terre Haute, Ind. Baking-powder	33,185	July 4	88	189
Hulman & Co., Terre Haute, Ind. Certain named groceries	33,251	July 18	88	543
Humane Remedy Co., Des Moines, Iowa. Salves and ointments for veterinary use	32,396	Jan. 17	86	487
Humphrey, Henry M., New York, N. Y. Tea and coffee	32,440	Jan. 31	86	795
Humphrey, Henry M., Plainfield, N. J. Coffee and tea	32,674	Apr. 4	87	177
Hungerford, William A. and F. Crocker, Washington, D. C. Shoes	32,435	Jan. 31	86	794
Hunt & Co., M. A., Cincinnati, Ohio. Woven-wire mattresses	32,486	Feb. 7	86	994
Hunt, George E., Lexington, N. C. Remedy for certain named diseases	32,392	Jan. 17	86	487
Hunt, Philip B., Minneapolis, Minn. Coffee	32,811	May 2	87	889
Hunter Arms Company, Fulton, N. Y. Gun-barrels	32,348	Jan. 10	86	341
Hunter Arms Company, Fulton, N. Y. Gun-barrels	32,349	Jan. 10	86	341
Hunter & Paddock, Terre Haute, Ind. Shirts and shirt-waists	32,599	Mar. 21	86	1979
Hunter, Thomas P., Philadelphia, Pa. Certain named groceries	33,430	Aug. 29	88	1702
Hüpfel's Sons, A. G., New York, N. Y. Malt extract	32,810	May 2	87	889
Hurd & Co., Geo. B., New York, N. Y. Writing paper and envelops	33,582	Oct. 17	89	517
Hussey, John W., New York, N. Y. Lumber in logs and sawed	32,718	Apr. 11	87	356
Hydro Caffeine Co., Baltimore, Md. Remedy for corns, bunions, and ingrown nails	32,411	Jan. 24	86	628
Hygienic Specialty Company, Philadelphia, Pa. Coffee	32,517	Feb. 21	86	1321
Hyland Manufacturing Company, Buffalo, N. Y. Certain named puzzles	33,474	Sept. 19	88	2239
Hyneman, Thomas M., Philadelphia, Pa. Breath-perfumes in certain named forms	33,424	Aug. 29	88	1701
I. Pomeroy Company, Newark, N. J. Certain named drugs and chemicals	33,892	Dec. 12	89	2258
Ichthyol Gesellschaft, Cordes, Hermanni & Co., Hamburg, Germany. Chemical and pharmaceutical substances and compounds for certain named purposes	33,347	Aug. 8	88	1156
Ichthyol Gesellschaft, Cordes, Hermanni & Co., Hamburg, Germany. Chemical and pharmaceutical substances and compounds for certain named purposes	33,348	Aug. 8	88	1156
Ichthyol Gesellschaft, Cordes, Hermanni & Co., Hamburg, Germany. Chemical, pharmaceutical, surgical, dietetic, and cosmetic products and preparations for certain named purposes	33,349	Aug. 8	88	1156
Ichthyol Gesellschaft, Cordes, Hermanni & Co., Hamburg, Germany. Chemical, pharmaceutical, surgical, dietetic, and cosmetic products and preparations	33,363	Aug. 18	85	1330
Ichthyol Gesellschaft, Cordes, Hermanni & Co., Hamburg, Germany. Chemical, pharmaceutical, surgical, dietetic, and cosmetic products and preparations	33,364	Aug. 15	88	1330
Ichthyol Gesellschaft, Cordes, Hermanni & Co., Hamburg, Germany. Chemical, pharmaceutical, surgical, dietetic, and cosmetic products and preparations	33,365	Aug. 15	88	1330
Ide & Sons, A. L., Springfield, Ill. High-speed steam-engines	33,229	July 11	88	384
Ideal Fuel Feeder Company, Hempstead and New York, N.Y. Machines for preparing and feeding fuel	32,912	May 16	87	1233
Ideal Manufacturing Company, Detroit, Mich. Certain named plumbers' goods, plumbers' supplies, and sanitary specialties	33,759	Nov. 14	89	1340

Alphabetical list of registrants of trade-marks—Continued.

Name, residence, and title.	No.	Date.	Official Gazette. Vol.	Page.
Illinois Seed Company, Chicago, Ill. Grass-seed	33,397	Aug. 22	88	1523
Imperial Fluid Company, Syracuse, N. Y. Embalming fluid	32,797	May 2	87	888
Improved Match Company, Detroit, Mich. Parlor-matches	32,586	Mar. 14	86	1802
India Food Company, Pittsburg and Allegheny, Pa., and New York, N. Y. Bread	33,510	Oct. 3	89	186
India Refining Company, Philadelphia, Pa. Vegetable fat or oil	33,499	Sept. 26	88	2408
Indian Head Mills of Alabama, Boston, Mass. Woven cotton goods	32,751	Apr. 25	87	691
Indian Head Mills of Alabama, Boston, Mass. Woven cotton goods	32,752	Apr. 25	87	691
Insoloid Fuse Company, Denver, Colo. Certain named blasting articles	33,735	Nov. 14	89	1340
International Automobile and Vehicle Tire Company, Jersey City, N. J. Tires	33,675	Oct. 31	89	918
Iowa Soap Company, Burlington, Iowa. Toilet soap	33,688	Nov. 7	89	1137
Irondale Spring Water Company, New York, N. Y. Mineral waters	32,839	May 9	87	1070
J. B. Lewis Company, Boston, Mass. Boots and shoes	33,080	June 20	87	2113
J. B. Lewis Company, Boston, Mass. Shoes for women and girls	33,081	June 20	87	2113
J. C. Ayer Company, Lowell, Mass. Preparation for the hair and scalp	33,820	Nov. 28	89	1859
J. C. Eno, Limited, London, England. Medicinal preparation for human use	32,315	Jan. 3	86	178
J. C. Henderson Machine Motor and Manufacturing Company, New York, N. Y. Table-dressing	32,442	Jan. 31	86	795
J. C. Henderson Machine Motor and Manufacturing Company, New York, N. Y. Shortening	32,443	Jan. 31	86	795
J. C. Henderson Machine Motor and Manufacturing Company, New York, N. Y. Table-dressing	32,831	May 9	87	1069
J. & F. Bell, Limited, Glasgow, Scotland. Smoking-tobacco and cigarettes	32,498	Feb. 14	86	1167
J. & F. Bell, Limited, Glasgow, Scotland. Smoking-tobacco and cigarettes	32,499	Feb. 14	86	1167
J. & F. Bell, Limited, Glasgow, Scotland. Smoking-tobacco and cigarettes	32,500	Feb. 14	86	1167
J. & F. Bell, Limited, Glasgow, Scotland. Smoking-tobacco and cigarettes	32,501	Feb. 14	86	1167
J. & F. Bell, Limited, Glasgow, Scotland. Smoking-tobacco and cigarettes	32,881	May 16	87	1231
J. H. Mohlman Company, New York, N. Y. Canned fruits and vegetables	33,220	July 11	88	384
J. Hauff & Company, Gesellschaft mit Beschränkter Haftung, Feuerbach, Germany. Photographic developers	33,016	June 6	87	1777
J. Hauff & Company, Gesellschaft mit Beschränkter Haftung, Feuerbach, Germany. Photographic developers	33,017	June 6	87	1777
J. Hungerford Smith Company, Rochester, N. Y. Insect-poison, poison-paper, and poison-plates	32,712	Apr. 11	87	356
J. P. Dieter Company, Chicago, Ill. Baking-powder	33,038	June 6	87	1779
J. W. Biles Company, Cincinnati, Ohio, and Louisville, Ky. Certain named feedstuffs	32,446	Jan. 31	86	795
Jacob Dold Packing Company, Kansas City, Mo. Certain named meat-packers' products	32,360	Jan. 10	86	342
Jaeckels, George P., Cleveland, Ohio Certain named wall-paper cleaners	33,333	Aug. 8	88	1154
James, Joseph P. R., Clinton, Iowa. Paints and fresco coloring	33,861	Dec. 5	89	2066
James & Mayer Buggy Company, Lawrenceburg, Ind. Certain named wheeled vehicles	33,538	Oct. 10	89	349
James R. Crompton & Brothers, Limited, Bury, England. Certain named papers	32,922	May 23	87	1392
Jeffrey Manufacturing Company, Columbus, Ohio. Rubber belting	33,756	Nov. 14	89	1340
Jenkins, Alfred B., New York, N. Y.; Boston, Mass., and Chicago, Ill. Valves and steam-packing	32,911	May 16	87	1233
Jenkins, Maross, New York, N. Y. Soap containing petroleum	32,617	Mar. 21	86	1981
Jenkins, Maross, New York, N. Y. Soap containing petroleum	32,618	Mar. 21	86	1981
Jenkins, Maross, New York, N. Y. Soap containing petroleum	33,817	Nov. 28	89	1858
Jerman, Charles A., and O. Kuehmsted, Milwaukee, Wis. Perfume	32,871	May 16	87	1230
John B. Stetson Company, Philadelphia, Pa. Hats and caps	33,645	Oct. 31	89	915
John Boyle Company, Baltimore, Md. Certain named canned goods	32,816	May 2	87	890
John Dewar & Sons, Limited, Perth, Glasgow, and Edinburgh, Scotland; Manchester, Bristol, and London, England; New York, N. Y.; Chicago, Ill., and Sydney, New South Wales. Whisky	33,589	Oct. 17	89	518
John Dewar & Sons, Limited, Perth, Glasgow, and Edinburgh, Scotland; Manchester, Bristol, and London, England; New York, N. Y.; Chicago, Ill., and Sydney, New South Wales. Whisky	33,590	Oct. 17	89	518
John Dewar & Sons, Limited, Perth, Glasgow, and Edinburgh, Scotland; Manchester, Bristol, and London, England; New York, N. Y.; Chicago, Ill., and Sydney, New South Wales. Whisky	33,591	Oct. 17	89	518
John Dunlap Company, Pittsburg, Pa. All kinds of enamelware	33,164	June 27	87	2321
John Good & Jennings Patent Machine Cordage Company, New York, N. Y. Rope, cord, twine, and combed hemp	33,648	Oct. 31	89	915
John Gosnell & Company, Limited, London, England. Certain named toilet articles and preparations	33,064	June 13	87	1955
John Morrell & Company, Limited, Ottumwa, Iowa. Cured meats	33,598	Oct. 17	89	519
John Morrell & Company, Limited, Ottumwa, Iowa. Cured meats	33,599	Oct. 17	89	519
John Schroeder Lumber Company, Milwaukee, Wis. Dressed lumber	33,639	Oct. 24	89	704
Johns-Pratt Company, Hartford, Conn. Certain named fuses	33,634	Oct. 24	89	704
Johns, Samuel L., McSherrystown, Pa. Cigars	33,416	Aug. 29	88	1700
Johnson, Harry E., Stillwater, Minn. Remedy for prevention and cure of hog-cholera	33,468	Sept. 12	88	2064
Johnson & Johnson, New Brunswick, N. J., and New York, N. Y. Antiseptic dressing	33,149	June 27	87	2319
Johnson & Johnson, New Brunswick, N. J., and New York, N. Y. Medicinal strengthening-plasters	33,150	June 27	87	2319
Johnson & Johnson, New Brunswick, N. J., and New York, N. Y. Surgeons' antiseptic dressing	33,480	Sept. 19	88	2.39
Johnson, Joseph M., Baltimore, Md. Abrasive scouring-powder	32,896	May 16	87	1232
Johnson, Joseph M., Baltimore, Md. Abrasive scouring-powder	32,897	May 16	87	1232
Johnson, Thomas W., New York, N. Y. Composition sheets used as a substitute for strawboard	33,120	June 27	87	2316
Johnson & Wilson, New York, N. Y. Portland cement	33,223	July 11	88	384
Jonnston, George W., Washington, D. C. Herbal medicines	33,950	Dec. 26	89	2651
Johnston, Michael H., Galesburg, Ill. Laxatives	33,147	June 27	87	2319
Jones, John P., Baltimore, Md. Liniment	32,711	Apr. 11	87	356
Jones & Sons, D., New York, N. Y. Shirts, bed-robes, and pajamas	32,339	Jan. 10	86	340
Jordan, Marsh & Co., Boston, Mass. Boots and shoes	32,971	May 30	87	1602
Joseph Banigan Rubber Company, Providence, R. I. Certain named rubber shoes	33,354	Aug. 15	88	1329
Joseph Banigan Rubber Company, Providence, R. I. Overshoes known in the trade as arctics	33,719	Nov. 14	89	1337
Joseph Banigan Rubber Company, Providence, R. I. Certain named shoes	33,863	Dec. 12	89	2256
Joseph Crosfield & Sons, Limited, Warrington, England. Soap and perfumery	32,939	May 23	87	1394
Joseph N. Eisendrath Company, Chicago, Ill. Gloves and mittens	32,723	Apr. 18	87	510
Kahabka, Baptist, Buffalo, N. Y. Eye-salve	33,158	June 27	87	2320
Kahle, Francis U., Buffalo, N. Y. Remedies in tablet or pill form for certain named diseases	33,520	Oct. 3	89	187
Kam-Ren Medicine Company, Atlanta, Ga. Pile remedies	33,664	Oct. 31	89	917
Kates & Bok, New York, N. Y. Lubricating and machine oil	33,787	Nov. 21	89	1667
Kearney & Foot Company, New York, N. Y. Files, rasps, twist-drills, and handsaws	32,749	Apr. 18	87	512
Kearney & Foot Company, New York, N. Y. Files, rasps, twist-drills, and handsaws	32,778	Apr. 25	87	693
Kehlor, James B. M., St. Louis and Kansas City, Mo., and East St. Louis, Ill. Wheat-flour	33,319	Aug. 8	88	1153
Keiffer Bros., New Orleans, La. Boots and shoes	32,629	Mar. 28	86	2167
Keiser, Emanuel H., Mansfield, Ohio. Boots and shoes	32,929	May 23	87	1393
Kellar Soap Co., Williamsport, Pa. Medicated and toilet soaps	33,191	July 4	88	189
Kelley, Alexander, Camden, N. J. Matches	33,328	Aug. 8	88	1154
Kelley, Alexander, Camden, N. J. Matches	33,329	Aug. 8	88	1154
Kelley, Alexander, Camden, N. J. Matches	33,330	Aug. 8	88	1154
Kelley, Alexander, Camden, N. J. Matches	33,331	Aug. 8	88	1154
Kelley & Son, New York, N. Y. Medicinal plasters	32,449	Jan. 31	86	796
Kellogg, John H., Battle Creek, Mich. Certain named article of food	33,124	June 27	87	2317
Kemna, Heinrich W., Barmen, Germany. Certain named ribbons	32,338	Jan. 10	86	340

Alphabetical list of registrants of trade-marks—Continued.

Name, residence, and title.	No.	Date.	Official Gazette. Vol.	Page.
Kenney Company, New York, N. Y. Certain named plumbing-fixtures	33,829	Nov. 28	89	1860
Kennon, Charles W., Tampa, Fla. Washboards	32,485	Feb. 7	86	994
Kentucky Fire Brick Works, Firebrick, Ky. Fire-brick	32,903	May 16	87	1230
Kentucky Fire Brick Works, Firebrick, Ky. Fire-brick	32,904	May 16	87	1232
Kentucky Fire Brick Works, Firebrick, Ky. Fire-brick	32,905	May 16	87	1232
Keys, Collier & Tillard, New York, N. Y. Textile fabrics for facings and linings	32,930	May 23	87	1393
Keystone Telephone Company, Pittsburg, Pa. Telephones, transmitters, switchboards, and their appliances	32,333	Jan. 3	86	180
Kiedaisch, John F., Sr., Keokuk, Iowa. Medicines for certain named diseases	33,335	Aug. 8	88	1154
Kinsey & Mahler Company, Peoria, Ill. Babbitt metal	33,633	Oct. 24	89	704
Kirkwood, Charles A., Chicago, Ill. Certain named brushes	33,355	Aug. 15	88	1329
Kirkwood, Charles A., Chicago, Ill. Dentifrices	33,356	Aug. 15	88	1329
Klotz, Victor, Paris, France, and New York, N. Y. Certain named toilet preparations	32,870	May 16	87	1232
Klotz, Victor, Paris, France, and New York, N. Y. Certain named toilet articles	33,436	Sept. 5	88	1894
Knothe Brothers, New York, N. Y. Certain named articles of apparel	33,202	July 11	88	382
Knox, Charles B., Johnstown, N. Y. Gelatin	33,292	Aug. 1	88	943
Koch, Rudolph C., New York, N. Y. Pianoforte-strings	33,386	Aug. 15	88	1332
Koenig & Co., C. A., Auburn, N. Y. Beer	32,976	May 30	87	1603
Korbel & Bros., F., San Francisco, Cal. Wines	33,324	Aug. 8	88	1153
Kosciusko Gall Cure Co., New York, N. Y. Gall cure	32,994	May 30	87	1604
Kranz, John, Chicago, Ill. Certain named confectionery	32,553	Feb. 28	86	1495
Kranz, John, Chicago, Ill. Certain named confectionery	32,554	Feb. 28	86	1495
Krato Chemical Company, New York, N. Y. Certain named proprietary medicines	32,394	Jan. 17	86	487
Krauser & Brother, E., Milton, Pa. Liquid extract of smoke for preserving meats	33,075	June 13	87	1956
Krippendorf-Dittmann Company, Cincinnati, Ohio. Ladies' shoes	33,019	June 6	87	1777
Kromer, Cornelius T., Canton, Ohio. Medicinal liquid for the lips	32,314	Jan. 3	86	178
Kronthal Company, Limited, London, England. Natural mineral water	32,671	Apr. 4	87	177
Kronthal Company, Limited, London, England. Natural mineral water	32,672	Apr. 4	87	177
Kronthal Company, Limited, London, England. Natural mineral water	32,673	Apr. 4	87	177
Kuehmsted, Otto. (See Jerman and Kuehmsted.)				
Kuhn, Henry, Rochester, N. Y. Photographic paper	33,725	Nov. 14	89	1337
Kulman, Oscar S., Savannah, Ga. Brooms	33,537	Oct. 10	89	349
Kuntz, Elisabeth, Pittsburg, Pa. Remedy for certain named diseases	32,935	May 23	87	1393
Kutnow Brothers, Limited, London, England. Effervescent powders	33,372	Aug. 15	88	1330
L. Rose & Company, Limited, London, England, and Leith, Scotland. Lime-juice	32,982	May 30	87	1603
La Compagnie des Granules Le Moyne, Montreal, Canada. Pills	33,341	Aug. 8	88	1155
La Place, Edgar R., Lakeville, Conn. Flavoring compounds for foods	32,983	May 30	87	1603
La Société Chimique des Usines du Rhône, Anciennement Gilliard, P. Monnet et Cartier, Lyons, France. Phosphite of crcosote	32,322	Jan. 3	86	179
La Société Chimique des Usines du Rhône, Anciennement Gilliard, P. Monnet et Cartier, Lyons, France. Antiseptics and disinfectants	33,047	June 6	87	1779
La Société Chimique des Usines du Rhône, Anciennement Gilliard, P. Monnet et Cartier, Lyons, France. Drugs and chemicals	33,100	June 20	87	2115
Labaree, Charles W., Bellows Falls, Vt. Veterinary medicines or remedies	33,146	June 27	87	2319
Ladd & Coffin, New York, N. Y. Perfumes, toilet waters, and colognes	33,027	June 6	87	1778
Ladd & Coffin, New York, N. Y. Certain named toilet preparations	33,028	June 6	87	1778
Lady Belt Manufacturing Company, Cohoes, N. Y. Belts for women	33,390	Aug. 22	88	1523
Lafayette Cracker and Confectionery Company, Lafayette, Ind. Crackers, cakes, biscuits, macaroons, and breads	33,628	Oct. 24	89	703
Lagerquist, Erik S., Oxford Depot, N. Y. Strainers for liquids	33,226	July 11	88	384
Lake Smelting Company, Ithaca, N. Y. Alloys	33,103	June 20	87	2115
Lambert & Butler, London, England. Manufactured tobacco, cigars, cheroots, and cigarettes	32,767	Apr. 25	87	692
Lambert & Butler, London, England. Paper cigarettes	32,879	May 16	87	1230
Lambert & Butler, London, England. Manufactured tobacco and paper cigarettes	32,880	May 16	87	1231
Lambertville Rubber Company, Lambertville, N. J. Rubber boots and shoes	32,405	Jan. 24	86	628
Lambertville Rubber Company, Lambertville, N. J. Rubber boots and shoes	32,406	Jan. 24	86	628
Lambrecht, Anthony H., Avondale, N. J. Crystalline substance to be mixed with a solvent for an ink	33,419	Aug. 29	88	1701
Lampert, Isidore, Paris, France. Sealing-wax	32,791	May 2	87	887
Landers, Frary & Clark, New Britain, Conn. Stop and waste cocks	33,635	Oct. 24	89	704
Lane & Fitte, London, England. Polish for leather, metal, or wood	32,793	May 2	87	888
Lappe, Christian E. (See Lappe, Harry A. and C. E.)				
Lappe, Harry A. and C. E., Allegheny and Pittsburg, Pa. Light-weight leathers	33,435	Sept. 5	88	1894
Larzelere, Anna E., Toledo, Ohio. Medicinal preparation for certain named diseases	33,823	Nov. 28	89	1859
Latham Machinery Company, Chicago, Ill., and New York, N. Y. Certain named machines	32,913	May 16	87	1234
Lavanburg, Fred L., New York, N. Y. Insecticides	32,483	Feb. 7	86	994
Lavanburg, Fred L., New York, N. Y. Insecticides	32,615	Mar. 21	86	1981
Lawry, Thomas H., Hamilton, Canada. Meats, cheese, butter, eggs, and lard	32,603	Mar. 21	86	1979
Leach Co., N. P., St. Albans, Vt. Gun greases and lubricants	32,746	Apr. 18	87	512
Leatheroid Manufacturing Company, Kennebunk, Me. Certain named fiber-board	33,206	Aug. 1	88	944
Lecaron & Fils, Paris, France. Certain named toilet preparations	33,659	Oct. 31	89	916
Lederer, Gustave, San Francisco, Cal. Shampoo or wash for cleaning the hair	32,549	Feb. 28	86	1495
Lederer, Gustave, San Francisco, Cal. Hair-tonic	32,667	Apr. 4	87	176
Leeds, George W., New York, N. Y. Portraits by photography	33,473	Sept. 19	88	2239
Legrand, Albert, Manchester, N. H. Self-sealing jars	32,680	Apr. 4	87	178
Leicester and Continental Mills Company, Incorporated, Camden, N. J., and Philadelphia, Pa. Certain named knit goods	33,644	Oct. 31	89	915
Leinweber, Charles C., Waterville, Ohio. Flour	32,818	May 2	87	890
Lender, Rudolf, Berlin, Germany. Certain named toilet preparations	33,539	Oct. 10	89	350
Lentschner Bros., New York, N. Y. Polishes for stoves and other articles of metal	33,791	Nov. 21	89	1667
Leonardt & Co., D., Birmingham, England. Pens	32,598	Mar. 21	86	1979
Leopold, Solomon & Co., Chicago, Ill. Certain named outer clothing	33,299	Aug. 1	88	944
Leprince, Maurice, Paris, France. Ferruginous medicines	32,761	Apr. 25	87	692
Leprince, Maurice, Paris, France. Remedy for certain named diseases	33,541	Oct. 10	89	350
Lester-Whitney Company, New York, N. Y. Laundry-blue	33,465	Sept. 12	88	2064
Lestrade Bros., New York, N. Y. Butter	33,219	July 11	88	383
Lever Brothers, Limited, Port Sunlight, England. Laundry soap	33,151	June 27	87	2320
Lever Brothers, Limited, Port Sunlight, England. Laundry soap	33,152	June 27	87	2320
Lever Brothers, Limited, Port Sunlight, England. Toilet soap	33,773	Nov. 21	89	1665
Lever Brothers, Limited, Port Sunlight, England. Laundry soap	33,774	Nov. 21	89	1665
Lever Brothers, Limited, Port Sunlight, England. Toilet soap	33,944	Dec. 26	89	2650
Lever Brothers, Limited, Port Sunlight, England. Toilet soap	33,945	Dec. 26	89	2651
Levering & Co., E., Baltimore, Md. Coffee	33,070	June 13	87	1956
Levi, Joseph, New York, N. Y. Certain named garment-stiffeners	32,407	Jan. 24	86	628
Lewis Berger & Sons, Limited, London, England, and New York, N. Y. Certain paints and painters' supplies	33,101	June 20	87	2115

Alphabetical list of registrants of trade-marks—Continued.

Name, residence, and title.	No.	Date.	Official Gazette. Vol.	Page.
Lewis Berger & Sons, Limited, London, England, and New York, N. Y. Certain paints and painters' supplies	33,102	June 20	87	2115
Lewis, David W., New York, N. Y. Butter	33,321	Aug. 8	88	1153
Liebig's Extract of Meat Company, Limited, London, England; Fray Bentos, Uruguay, and Antwerp, Belgium. Extract of meat	32,943	May 23	87	1394
Ligbthiser, Charles H., Baltimore, Md. Fresh and processed fish and crabs	33,288	Aug. 1	88	943
Lilly Coal Co., Altoona, Pa. Smithing coal	32,962	May 23	87	1396
Lillybeck, Oscar, Meridian, Miss. Certain named proprietary medicine	33,366	Aug. 15	88	1330
Lindenmeyr & Sons, Henry, New York, N. Y. Colored writing-paper	33,530	Oct. 10	89	349
Lindenmyer & Sons, Henry, New York, N. Y. Linen writing-paper	33,684	Nov. 7	89	1137
Lindenmyer & Sons, Henry, New York, N. Y. Low-grade writing-paper	33,685	Nov. 7	89	1137
Lindenmeyr & Sons, Henry, New York, N. Y. Certain named paper	33,805	Nov. 28	89	1857
Lindt, Rodolphe, Fils, Berne, Switzerland. Certain named chocolates	33,910	Dec. 19	89	2457
Lintbicum, Cbarles W., Baltimore, Md. Rubber boots and shoes	32,512	Feb. 21	86	1320
Lion & Co., Sao Paulo, Brazil. Certain named oils and liniments	33,563	Oct. 10	89	352
Lisner, Abraham, Washington, D. C. Certain named toilet articles	32,830	May 9	87	1069
Listman Mill Company, La Crosse, Wis. Wheat-flour	32,569	Mar. 7	86	1631
Listman Mill Company, La Crosse, Wis. Wbeat-flour	33,653	Oct. 31	89	916
Listman Mill Company, La Crosse, Wis. Wheat-flour	33,654	Oct. 31	89	916
"Locomobile" Company of America, Wheeling, W. Va. Automatically-propelled vebicles	33,389	Aug. 15	88	1332
"Locomobile" Company of America, Wbeeling, W. Va., and New York, N. Y. Automatically-propelled wheeled vebicles	33,490	Sept. 19	88	2240
"Locomobile" Company of America, Wheeling, W. Va., and New York, N. Y. Automatically-propelled wheeled vehicles	33,491	Sept. 19	88	2240
"Locomobile" Company of America, Wheeling, W. Va., and New York, N. Y. Automatically-propelled wheeled vehicles	33,492	Sept. 19	88	2240
"Locomobile" Company of America, Wheeling, W. Va., and New York, N. Y. Automatically-propelled wheeled vebicles	33,676	Oct. 31	89	918
"Locomobile" Company of America, Wbeeling, W. Va., and New York, N. Y. Automatically-propelled wheeled vehicles	33,677	Oct. 31	89	918
"Locomobile" Company of America, Wheeling, W. Va., and New York, N. Y. Automatically-propelled wheeled vehicles	33,678	Oct. 31	89	918
"Locomobile" Company of America, Wheeling, W. Va., and New York, N. Y. Automatically-propelled wheeled vehicles	33,679	Oct. 31	89	918
"Locomobile" Company of America, Wbeeling, W. Va., and New York, N. Y. Automatically-propelled wheeled vehicles	33,680	Oct. 31	89	918
"Locomobile" Company of America, Wheeling, W. Va., and New York, N. Y. Automatically-propelled wheeled vehicles	33,681	Oct. 31	89	918
"Locomobile" Company of America, Wheeling, W. Va., and New York, N. Y. Automatically-propelled wheeled vebicles	33,682	Oct. 31	89	918
"Locomobile" Company of America, Wheeling, W. Va., and New York, N. Y. Automatically-propelled wheeled vehicles	33,713	Nov. 7	89	1139
"Locomobile" Company of America, Wheeling, W. Va., and New York, N. Y. Automatically-propelled wheeled vehicles	33,714	Nov. 7	89	1140
"Locomobile" Company of America, Wbeeling, W. Va., and New York, N. Y. Automatically-propelled wheeled vehicles	33,715	Nov. 7	89	1140
"Locomobile" Company of America, Wheeling, W. Va., and New York, N. Y. Automatically-propelled wheeled vebicles	33,716	Nov. 7	89	1140
Loders & Nucoline, Limited, London, England. Vegetable butter	32,832	May 9	87	1069
Loomis, Gilbert J., Westfield, Mass. Certain named bicycle sundries	33,170	June 27	87	2321
Lord, George L., New York, N. Y. Remedies for diseases of the kidneys and liver	33,691	Nov. 7	89	1137
Lorenz, William A., Hartford, Conn. Biscuits	33,749	Nov. 14	89	1339
Loretz, Otto H. A. (See Caeser and Loretz.)				
Low, Abbot A., New York, N. Y. Maple-sugar and maple-syrup	32,834	May 9	87	1070
Low, Abbot A., New York, N. Y. Maple-sugar and maple-syrup	33,380	Aug. 15	88	1331
Low, Abbot A., New York, N. Y. Maple-sugar and maple-syrup	33,381	Aug. 15	88	1331
Low, Abbot A., New York, N. Y. Maple-sugar and maple-syrup	33,382	Aug. 15	88	1331
Low, Abbot A., New York, N. Y. Maple sugar and syrup	33,912	Dec. 19	89	2458
Low, Abbot A., Horsesboe, N. Y. Maple-sugar	33,379	Aug. 15	88	1331
Lowe Brothers Company, Dayton, Ohio. Paint pigments	33,862	Dec. 5	89	2066
Loy, Luther, Columbus, Ohio. Chewing-gum	33,371	Aug. 15	88	1330
Lucke & Co., J. H., Cincinnati, Ohio. Cigars	32,878	May 16	87	1230
Lutz & Schramm Co., Allegbeny, Pa. Certain named foods and relishes	32,835	May 9	87	1070
Luyties Brothers, New York, N. Y. Bitters	33,545	Oct. 10	89	350
Lynch, William P., St. Louis, Mo. Remedy for drunkenness or inebriety	32,316	Jan. 3	86	179
Lyon & Healy, Chicago, Ill. Accordions	33,013	June 6	87	1777
Lyon & Healy, Chicago, Ill. Certain named stringed musical instruments and strings for same.	33,868	Dec. 12	89	2256
M. C. McDonald Bottling Company, Chicago, Ill. Malt liquors	33,812	Nov. 23	89	1858
M. K. Goetz Brewing Company, St. Joseph, Mo. Bottled beer	32,494	Feb. 14	86	1166
Mack & Co., San Francisco, Cal. Proprietary preparations for certain named diseases	33,337	Aug. 8	88	1155
Mack, Firm of Heinrich, Ulm and Illertissen, Germany. Certain named toilet preparations	32,550	Feb. 28	86	1495
Mackintosh, Louis A., Philadelpbia, Pa. Remedies for certain named diseases	33,767	Nov. 21	89	1664
Macwilliam, Hugh G., St. Paul, Minn. Suspenders	32,865	May 16	87	1229
Maddocks, John, Bradford, England. Powder for destroying insects	32,448	Jan. 31	86	796
Maddocks, John, Saylesville, R. I. Mercerized cotton fabrics	33,723	Nov. 14	89	1337
Madison Medicine Company, Madison, Wis. Certain named medicines	33,192	July 4	88	189
Maggi Food Works, Kempthal, Switzerland. Certain named alimentary and dietetic products	33,215	July 11	88	383
Maggi Food Works, Kempthal, Switzerland. Certain named alimentary and dietetic products	33,438	Sept. 5	88	1894
Maggi Food Works, Kempthal, Switzerland. Certain named alimentary and dietetic products	33,482	Sept. 19	88	2239
Maggi Food Works, Kempthal, Switzerland. Certain named alimentary and dietetic products	33,483	Sept. 19	88	2240
Mahr & Sons, John C., New York, N. Y. Eggs	33,252	July 18	88	544
Maine Manufacturing Co., Nashua, N. H. Refrigerators	32,506	Feb. 14	86	1168
Malay Remedy Company, Baltimore, Md. Balms	33,844	Dec. 5	89	2065
Maloney, Lawrence J., Boston, Mass. Soap	33,602	Oct. 17	89	519
Manila Drug Company, Chicago, Ill. Medicines for internal and external application	33,916	Dec. 19	89	2458
Mann, Charles. (See McCoy and Mann.)				
Manning Bowman & Company, Meriden, Conn. Metal-ware cooking utensils	33,897	Dec. 12	89	2258
Manning Shoe and Rubber Co., Boston, Mass. Boots and shoes	32,754	Apr. 25	87	691
Mansbach, Abrabam H., New York, N. Y. Washable kid gloves	33,078	June 20	87	2113
Mansbach, Abraham H., New York, N. Y. Leather gloves and woven-fabric gloves	33,079	June 20	87	2113
Manson, Louis H., Cbicago, Ill. Bicycles	32,917	May 16	87	1234
Marble City Drug Manufacturing Company, Knoxville, Tenn. Medicine for certain named diseases	32,932	May 23	87	1393
Marchesini, Gaetano, New York, N. Y. Olive-oil	32,330	Jan. 3	86	180
Marion Fruit Jar and Bottle Company, Marion, Fairmount, and Converse, Ind. Oil-cans	33,256	July 18	88	544
Marmon, Daniel W., Indianapolis, Ind. Wheat-flour	32,415	Jan. 24	86	629

Alphabetical list of registrants of trade-marks—Continued.

Name, residence, and title.	No.	Date.	Official Gazette. Vol.	Page.
Marsh & Co., Geo. E., Lynn, Mass. Hard soap	33,402	Aug. 22	88	1524
Marshutz, Siegfried G., Los Angeles, Cal. Spectacles and spectacle-temples	33,806	Nov. 28	89	1857
Martin & Bro., George W., New York, N. Y. Butter and eggs	33,122	June 27	87	2317
Martin Hardsocg Manufacturing Company, Limited, Allegheny, Pa. Certain named miners' supplies	33,224	July 11	88	384
Marx, Joseph E., Havana, Cuba. Cigars and cigarettes	33,547	Oct. 10	89	350
Mason, Hubert H., London, England. Medicines for certain named diseases	33,667	Oct. 31	89	917
Masur, Abraham E., Shamokin, Pa. Remedy for rheumatism	33,241	July 18	88	543
Mathewson & Co., A. C., Boston, Mass. Coffee	33,135	June 27	87	2318
Maurer, John, Kansas City, Mo. Salves	32,762	Apr. 25	87	692
Max Huncke Chemical Company, Bridgeport, Conn. Embalming fluid	32,656	Mar. 28	86	2170
Max Huncke Chemical Company, Bridgeport, Conn. Embalming fluids	33,396	Aug. 22	88	1523
Max Huncke Chemical Company, Bridgeport, Conn. Embalming fluids	33,428	Aug. 29	88	1702
Mayfield Woolen Mills, Mayfield, Ky. Certain named clothing	33,799	Nov. 28	89	1857
Mayo, George, Mattoax, Va. Remedy for certain named diseases of the respiratory organs	32,319	Jan. 3	86	179
McBee, Augustine E., Louisville, Ky. Laxative syrup	32,996	May 30	87	1605
McCann & Co., Geo. H., Springfield, Mo. Smoking-tobacco	32,645	Mar. 28	86	2169
McCann & Co., Geo. H., Springfield, Mo. Certain named manufactured tobacco	33,326	Aug. 8	88	1154
McCann & Co., Geo. H., Springfield, Mo. Smoking and chewing tobacco, cigars, and cigarettes	33,509	Oct. 3	89	186
McCann & Co., Geo. H., Springfield, Mo. Certain named manufactured tobacco	33,786	Nov. 21	89	1666
McCann & Co., Geo. H., Springfield, Mo. Smoking-tobacco	33,940	Dec. 26	89	2650
McCann & Co., Geo. H., Springfield, Mo. Smoking-tobacco	33,941	Dec. 26	89	2650
McClain, Edward L., Greenfield, Ohio. Sweat-pads	33,610	Oct. 17	89	520
McClure, Frank P., and R. G. Wallace, New Wilmington, Pa. Medicinal tablets for certain named diseases	33,338	Aug. 8	88	1155
McConnell, David H., New York, N. Y. Certain named articles of tableware	32,828	May 9	87	1069
McCoy, Wilber A., Columbus, Ohio, and C. Mann, Detroit, Mich. Clothes-washing compounds	32,706	Apr. 11	87	355
McCrossan, Charles W., Wheaton, Minn. Preparation for removing ink-stains, &c	33,699	Nov. 7	89	1138
McDonough, Michael F., Philadelphia, Pa. Whisky and champagne	32,838	May 9	87	1070
McGraw, Albert P., New York, N. Y. Certain named garment-stiffeners	33,238	July 18	88	542
McGrigory, James C. (See Montgomery and McGrigory.)				
McInnes & Son, John, Liverpool and Bootle, England. Antifouling compositions, anticorrosives, paints, and other similar protecting-coverings for surfaces	33,346	Aug. 8	88	1156
McKinney Bread Company, St. Louis, Mo. Bread, cakes, pies, and crackers	33,781	Nov. 21	89	1666
McLaughlin, Cunningham N., Winona, Minn. Certain named mills and machines	32,684	Apr. 4	87	178
McMeekan, David, New York, N. Y. Pulverized soaps	32,367	Jan. 10	86	343
McMorran & Co., Port Huron, Mich. Soup-stocks and flour made from cooked grain or seeds	33,035	June 6	87	1778
McRae & Bevill, Memphis, Tenn. Shoes	32,538	Feb. 28	86	1494
McShane, Neil, Savannah, Ga. Insect-exterminators	32,763	Apr. 25	87	692
Mecredy Manufacturing Syndicate, Limited, London, England. Desiccated preserved foods	32,385	Jan. 17	86	487
Medomak Chemical Company, Jersey City, N. J. External remedies	33,061	June 13	87	1955
Meinberg, John G., Washington, D. C. Baked bread	33,886	Dec. 12	89	2258
Mellier Drug Company, St. Louis, Mo. Perfumes	33,094	June 20	87	2114
Mellier Drug Company, St. Louis, Mo. Perfumes	33,095	June 20	87	2114
Mellor, William E., Philadelphia, Pa. Liniment	33,340	July 18	88	543
Mellor, William E., Philadelphia, Pa. Liniment	33,279	July 25	88	714
Menzenhauer & Schmidt, Jersey City, N. J. Certain named musical instruments, sheet and book music, and note sheets, rolls, and cylinders	33,176	July 4	88	188
Merck, Firm of E., Darmstadt, Germany. Certain named medicinal chemicals	32,737	Apr. 18	87	511
Merrill Soule Company, Syracuse, N. Y. Certain named canned or preserved goods	32,773	Apr. 25	87	693
Mette, Joseph P., St. Louis, Mo. Bitters	32,807	May 2	87	889
Meyer & Bulte, Kansas City and Clinton, Mo. Flour	33,779	Nov. 21	89	1665
Miacjah & Co., Warren, Pa. Proprietary medicine for certain named diseases	33,824	Nov. 28	89	1859
Michalek, Heinrich, Reichenberg, Austria-Hungary. Certain named lamp-chimneys	32,503	Feb. 14	86	1167
Michalek, Heinrich, Reichenberg, Austria-Hungary. Certain named lamp-chimneys	32,504	Feb. 14	86	1167
Michigan Alkali Company, Wyandotte, Mich. Soda-ash, bicarbonate of soda, and caustic soda	32,438	Jan. 31	86	794
Millard & Co., N. L., North Adams, Mass. Boots and shoes	32,868	May 16	87	1230
Miller, Charles F., Lancaster, Pa. Toilet soap	33,420	Aug. 29	88	1701
Miller Rubber Manufacturing Company, Akron, Ohio. Seamless rubber gloves	32,379	Jan. 17	86	486
Miller, William E., Alexandria Bay, N. Y. Calves' sweetbreads	32,944	May 23	87	1394
Milley, Emma, Chicago, Ill. Liquid face-washes	33,736	Nov. 14	89	1338
Milliken, John T., St. Louis, Mo. Certain named medicine	32,759	Apr. 25	87	692
Milton Bradley Company, Springfield, Mass. Game	32,789	May 2	87	887
Milwaukee Chemical Works, Milwaukee, Wis. Leather-dressing	33,472	Sept. 12	88	2064
Milwaukee Patent Puncture Proof Tire Company, Milwaukee, Wis. Rubber tires	32,454	Jan. 31	86	796
Milwaukee-Waukesha Brewing Company, Milwaukee, Wis. Lager-beer	33,444	Sept. 5	88	1895
Minneapolis Knitting Works, Minneapolis, Minn. Certain named underwear	33,391	Aug. 22	88	1523
Minot, Hooper & Co., New York, N. Y. Sheetings	32,862	May 16	87	1229
Minot, Hooper & Co., New York, N. Y. Sheetings	33,303	Aug. 8	88	1151
Minot, Hooper & Co., New York, N. Y. Certain named woven fabrics	33,926	Dec. 26	89	2648
Minot, Hooper & Co., New York, N. Y. Heavy shirtings	33,927	Dec. 26	89	2648
Mitchell, Irving A., Philadelphia, Pa. Cigars, cigarettes, and cheroots	33,065	June 13	87	1955
Mittag & Volger, Park Ridge, N. J. Carbon-paper	33,832	Dec. 5	89	2064
Mittag & Volger, Park Ridge, N. J. Carbon-papers	33,869	Dec. 12	89	2256
Moline Plow Company, Moline, Ill. Wagons	33,831	Nov. 28	89	1860
Monarch Rubber Company, St. Louis, Mo. Certain named rubber footwear	33,808	Nov. 28	89	1857
Monarch Shoe Company, New York, N. Y. Boots, shoes, gaiters, and slippers	33,577	Oct. 17	89	517
Monger, John A., Superior, Wis. Remedies for certain named diseases	33,478	Sept. 19	88	2230
Monnet & Co., J. G., Cognac, France. Cognac brandy	32,770	Apr. 25	87	693
Montgomery Brothers, Philadelphia, Pa. Machinery-packing	33,196	July 4	88	190
Montgomery, James W., and J. C. McGrigory, Decatur, Ill. Soap	32,527	Feb. 21	86	1322
Moolten-Peterson Chemical Co., New York, N. Y. Hair-removers	32,372	Jan. 10	86	343
Moore & Co., Lucas E., New Orleans, La. Certain named lumber	33,614	Oct. 17	89	520
Moore, Joseph H., Cincinnati, Ohio. Muslin and similar cotton goods	32,309	Jan. 3	86	178
Moore, Thomas W., and M. B. Grout, North Yakima, Wash. Composition for repairing pneumatic tires	33,403	Aug. 22	88	1524
Moos & Co., New York, N. Y. Certain named canned goods and olive-oil	32,328	Jan. 3	86	180
Morgan, William B., Washington, D. C. Certain named non-heat-conducting materials	32,334	Jan. 3	86	180
Morris, Alexander G., Tyrone, Pa. Certain named limes and lime-flour	33,789	Nov. 21	89	1667
Morris Ointment Co., Fayetteville, Ga. Salves and ointments	32,413	Jan. 24	86	629
Morrison, Agnes M., Syracuse, N. Y. Soap for polishing silverware	33,384	Aug. 15	88	1331
Mortimer, David, Boston, Mass. Kidney-pills	33,666	Oct. 31	89	917
Mound City Paint and Color Company, St. Louis, Mo. Paints ground in oil	33,673	Oct. 31	89	918
Mound City Paint and Color Company, St. Louis, Mo. Coach and carriage paint	33,921	Dec. 19	89	2458
Moyer, Harvey A., Syracuse, N. Y. Axle-grease	33,672	Oct. 31	89	918
Multiscope and Film Company, Burlington, Wis. Panoramic camera	33,904	Dec. 19	89	2457

Alphabetical list of registrants of trade-marks—Continued.

Name, residence, and title.	No.	Date.	Official Gazette. Vol.	Page.
Mumler, John G. J., Somerville, Mass. Certain remedy for seasickness	33,368	Aug. 15	88	1330
Munson, Charles H., Kansas City, Mo. Medicines for certain named diseases	33,467.	Sept. 12	88	2064
Munyon, James M., Philadelphia, Pa. Certain named medicines	32,453	Jan. 31	86	796
Munyon, James M., Philadelphia, Pa. Medicated and other tablets and pills	32,850	May 9	87	1071
Murphey, Charles H., Madisonville, Ky. Medicines for certain named diseases	33,336	Aug. 8	88	1155
Murphy Varnish Company, Newark, N. J.; Boston, Mass.; Clevelaud, Ohio; Chicago, Ill.; St. Louis, Mo.; San Francisco, Cal., and Paris, France. Varnish	32,942	May 23	87	1394
Myers, Mark, Philadelphia, Pa. Soap and soap-making materials	33,879	Dec. 12	89	2257
Myers & Rossbach, Chicago, Ill. Certain named articles for gentlemen's wear	32,927	May 23	87	1392
N. K. Fairbank Company, Chicago, Ill. Laundry soap	33,603	Oct. 17	89	519
N. K. Fairbank Company, Chicago, Ill. Laundry soap	33,604	Oct. 17	89	520
N. K. Fairbank Company, Chicago, Ill. Laundry soap	33,605	Oct. 17	89	520
N. Z. Graves & Company, Philadelphia, Pa. Certain named white pigments	33,704	Nov. 7	89	1139
N. Z. Graves & Company, Philadelphia, Pa. Certain named white pigments	33,705	Nov. 7	89	1139
Naprstek, Hendriette, New York, N. Y. Insecticides and rodent poisons	33,662	Oct. 31	89	917
Natchez Drug Company, Natchez, Miss. Certain named medical remedies	33,339	Aug. 8	88	1155
National Cement and Rubber Manufacturing Company, Toledo, Ohio. Certain named bicycle supplies	33,169	June 27	87	2321
National Fuel Compound Co., Boston, Mass. Chemical compound for increasing combustibility of coal	33,163	June 27	87	2321
National Phonograph Company, Orange, N. J. Phonographs and phonographic supplies	33,015	June 6	87	1777
National Phonograph Company, Orange, N. J. Phonographs, their parts, and supplies	33,236	July 18	88	542
National Polish Manufacturing Company, Chicago, Ill. Certain named polishing compounds	33,160	June 27	87	2321
National Polish Manufacturing Company, Chicago, Ill. Certain named polishing compounds	33,920	Dec. 19	89	2458
National Tool and Stamping Company, Baltimore, Md. Self-fastening pants-clasps	33,722	Nov. 14	89	1337
Nave & McCord Mercantile Company, St. Joseph, Mo. Lamp-chimneys	32,633	Mar. 28	86	2168
Neal, James B., Boston, Mass. Porous plasters	33,689	Nov. 7	89	1137
Nestlé, Firm of Henri, London, England, Christiania, Norway, and Vevey, Switzerland. Condensed milk	32,742	Apr. 18	87	512
Nestlé, Firm of Henri, London, England; Christiania, Norway, and Vevey, Switzerland. Condensed milk	32,813	May 2	87	890
Nestlé, Firm of Henri, London, England; Christiania, Norway, and Vevey, Switzerland. Condensed milk	33,322	Aug. 8	88	1153
Nestlé, Firm of Henri, London, England; Christiania, Norway, and Vevey, Switzerland. Condensed milk	33,323	Aug. 8	88	1153
Nettlefolds, Limited, Birmingham and London, England. Certain iron and steel manufactures	33,793	Nov. 21	89	1667
Neumeyer, Horace F., Macungie, Pa. Hydrants, pumps, water-nozzles, lawn-sprinklers, and street-washers	32,658	Mar. 28	86	2170
New England Supply Co., Providence, R. I.; Philadelphia, Pa., and Cleveland, Ohio. Potato chips	33,694	Nov. 7	89	1138
New England Watch Company, Waterbury, Conn. Watch-movements, watchcases, and watch parts	32,312	Jan. 3	86	178
New England Watch Company, Waterbury, Conn. Watches	33,565	Oct. 17	89	516
New England Watch Company, Waterbury, Conn. Watches	33,566	Oct. 17	89	516
New Home Sewing Machine Company, Orange, Mass., and New York, N. Y. Sewing-machines and attachments	33,010	May 30	87	1606
New Home Sewing Machine Company, Orange, Mass., and New York, N. Y. Sewing-machines and attachments therefor	33,107	June 20	87	2115
New Home Sewing Machine Company, Orange, Mass., and New York, N. Y. Sewing-machines and attachments therefor	33,108	June 20	87	2116
New Home Sewing Machine Company, Orange, Mass., and New York, N. Y. Sewing-machines and attachments therefor	33,109	June 20	87	2116
New Home Sewing Machine Company, Orange, Mass., and New York, N. Y. Sewing-machines and attachments therefor	33,110	June 20	87	2116
New Jersey Enamel Paint Company, Raritan, N. J. Paints	32,747	Apr. 18	87	512
New Jersey Enamel Paint Company, Raritan, N. J. Paints	33,162	June 27	87	2321
New York Baking Powder Company, East Orange, N. J., and New York, N. Y. Baking-powder	32,556	Feb. 28	86	1495
New York Condensed Milk Company, New York, N. Y. Certain named dairy products	32,384	Jan. 17	86	487
New York Condensed Milk Company, New York, N. Y. Condensed coffee	32,639	Mar. 28	86	2168
New York Consolidated Card Company, New York, N. Y. Chips for games	33,836	Dec. 5	89	2064
Newark Drug and Chemical Co., Newark, Ohio. Remedy for certain named diseases	32,890	May 16	87	1231
Newbro Drug Company, Butte, Mont. Hair remedy	33,587	Oct. 17	89	518
Newman, Henry, New York, N. Y. Scissors	33,500	Sept. 26	88	2408
Newman, Henry, New York, N. Y. Scissors	33,501	Sept. 26	88	2408
Newton, William M., Albany, N. Y. Dry powdered or pulverized material	33,607	Oct. 17	89	520
Nicolay & Co., Zurich, Switzerland. Chemical and pharmaceutical remedies	33,427	Aug. 29	88	1701
Nicolay & Co., Zurich, Switzerland. Ferruginous preparation	33,849	Dec. 5	89	2065
Nippon Seicha Gaisha, (The Japan Tea Firing Company,) Yokohama, Japan. Tea	33,882	Dec. 12	89	2257
Nitzsche, Hugo, St. Louis, Mo. Cigars	33,437	Sept. 5	88	1894
Nobles & Hoare, London, England. Varnishes, japans, colors, and filling up	32,590	Mar. 14	86	1802
Nordtmeyer, Hermann, Celle, Germany. Filters and filtering apparatus	33,387	Aug. 15	88	1332
North Wayne Tool Company, North Wayne and Hallowell, Me. Certain named edge-tools	32,779	Apr. 25	87	694
North Wayne Tool Company, North Wayne and Hallowell, Me. Certain named edge-tools	33,526	Oct. 3	89	188
Norton Emery Wheel Company, Worcester, Mass. Certain named manufactured articles of abrasive material	33,757	Nov. 14	89	1340
Notara Brothers, New York, N. Y. Cigarettes	33,242	July 18	88	543
Nusbaum, Benjamin, Philadelphia, Pa. Bicycle-cements	32,581	Mar. 7	86	1632
Nusbaum, Samuel, Albany, N. Y. Certain named paper bags	33,583	Oct. 17	89	517
Nuttall & Co., William, Cohoes, N. Y. Underwear, with the exception of hosiery	33,925	Dec. 26	89	2648
O'Brien Varnish Company, South Bend, Ind. Certain varnishes, surfacers, and fillers	32,677	Apr. 4	87	177
O'Connor, W. Scott, New York, N. Y. Certain named coin-operated vending-machines	33,405	Aug. 22	88	1524
O'Neill, Lawrence A., Holyoke, Mass. Bread, cake, and pastry	32,698	Apr. 11	87	355
O'Rourke & Hurley, Little Falls, N. Y. Tooth-powder	33,211	July 11	88	383
Oakford & Fahnestock, Peoria, Ill. Package-tea	32,516	Feb. 21	86	1321
Oberhaeusser & Landauer, Würzburg, Germany. Cordials, herb bitters, and liquors	32,573	Mar. 7	86	1632
Oeters, John C., Philadelphia, Pa. Waterproof paint	32,425	Jan. 24	86	630
Ohlhaver Gebrüder, Hamburg, Germany. Cream-separators	32,370	Jan. 10	86	343
Old Nick Williams Co., Williams, N. C. Whisky	33,245	July 18	88	543
Oliver-Finnie Grocer Company, Memphis, Tenn. Certain named groceries	32,642	Mar. 28	86	2168
Oliver-Finnie Grocer Company, Memphis, Tenn. Roasted coffee	33,033	June 6	87	1778
Oliver-Finnie Grocer Company, Memphis, Tenn. Flour	33,778	Nov. 21	89	1665
Olivine Manufacturing Co., Detroit, Mich. Washing compounds	33,189	July 4	88	189
Oolahline Hair Grower Co., Detroit, Mich. Hair-tonic and drandruff cure	33,915	Dec. 19	89	2458
Openhym & Sons, Wm., New York, N. Y. Ribbons	32,310	Jan. 3	86	178
Ophthalmic Remedy Co., Reading, Pa. Eye lotions	33,360	Aug. 15	88	1329
Oppenheim, Oberndorf & Co., Baltimore, Md. Overshirts	33,113	June 27	87	2316

Alphabetical list of registrants of trade-marks—Continued.

Name, residence, and title.	No.	Date.	Official Gazette. Vol.	Page.
Ormiston & Glass, London, England. Steel pens	33,014	June 6	87	1777
Ormsby, Dorman L., New York, N. Y. Carbonated beverages	33,244	July 18	88	543
Osborne, Owen, Philadelphia, Pa. Hosiery and other knitted apparel	32,753	Apr. 25	87	691
Otis Company, Ware, Mass. Certain named underwear	33,764	Nov. 21	89	1664
Otto Huber Brewery, New York, N. Y. Lager-beer	33,854	Dec. 5	89	2066
Oxley, James M. (See Dowie and Oxley.)				
Pabst Brewing Company, Milwaukee, Wis. Lager-beer	33,264	July 25	88	713
Pabst Chemical Co., Chicago, Ill. Medicinal specific for certain named diseases	32,450	Jan. 31	86	796
Pacific Oriental Trading Company, San Francisco, Cal. Blackberry-brandy	33,697	Nov. 7	89	1138
Packard & Field, Brockton, Mass. Boots, shoes, and slippers	33,533	Oct. 10	89	349
Palmer, Firm of Solon, New York, N. Y. Certain named toilet articles	33,421	Aug. 29	88	1701
Palmer, Isaac E., Middletown, Conn. Hammocks and supporting and suspension devices therefor	33,477	Sept. 19	88	2239
Palmetto Fibre Company, Chicago, Ill. Certain named brushes	33,522	Oct. 3	89	188
Pan Confection Company, Chicago, Ill. Candy	32,587	Mar. 14	86	1802
Pan Confection Company, Chicago, Ill. Candy in lozenge form	32,695	Apr. 11	87	355
Paris Medicine Company, St. Louis, Mo. Remedies for coughs, colds, headaches, and la grippe	32,803	May 2	87	889
Parisian Comb Company, New York, N. Y. Hair-dressing combs	32,692	Apr. 11	87	354
Parker Bros., Salem, Mass. Parlor game apparatus	33,531	Oct. 10	89	349
Parker, Holmes & Co., Boston, Mass. Certain named footwear	33,454	Sept. 12	88	2063
Parrish, Charles W., St. Louis, Mo. Medicine for neurotic diseases	32,393	Jan. 17	86	487
Partridge, Francis W. (See Hose and Partridge.)				
Pasteur Vaccine (United States and Canada) Company, Limited, London, England, and Chicago, Ill. Vaccine virus	33,239	July 18	88	542
Patrick, Toney, Murphysborough, Ill. Medicinal preparations for external application	33,208	July 11	88	382
Peabody & Co., Henry W., New York, N. Y. Flour	32,886	May 16	87	1231
Peanolia Food Company, New Haven, Conn. Peanut-butter	32,588	Mar. 14	86	1802
Peats & Co., Alfred, New York, N. Y., and Chicago, Ill. Wall-paper	33,724	Nov. 14	89	1337
Peek, Frean & Co., London, England. Tea, coffee, and cocoa	33,032	June 6	87	1778
Pelzer Manufacturing Company, Pelzer, S. C. Brown sheetings	33,076	June 20	87	2113
Pelzer Manufacturing Company, Pelzer, S. C. Sheetings	33,205	July 11	88	382
Pelzer Manufacturing Company, Pelzer, S. C. Sheetings	33,434	Sept. 5	88	1894
Pelzer Manufacturing Company, Pelzer, S. C. Sheetings	33,494	Sept. 26	88	2408
Peña Bros., New York, N. Y. Saws	32,780	Apr. 25	87	694
Penick & Ford, Shreveport, La. Sugar-cane syrup and molasses	33,550	Oct. 10	89	351
Pennsylvania and Delaware Oil Company, Elizabeth, N. J., and New York, N. Y. Petroleum-oils	32,390	Jan. 17	86	487
Peoria Rubber and Manufacturing Company, Peoria, Ill. Bicycles	32,622	Mar. 21	86	1982
Pepsin-Seltzer Drug and Chemical Company of Baltimore City, Baltimore, Md. Remedy for certain named diseases	32,891	May 16	87	1232
Permanoid Company, New York, N. Y. Paints, varnishes, and lacquers, including aluminium and other bronzes	33,222	July 11	88	384
Perry, Edward, Philadelphia, Pa. Certain named clothing	33,643	Oct. 31	89	915
Peter & Co., Arthur, Louisville, Ky. Pills and liquid laxatives	32,798	May 2	87	888
Peter & Co., Arthur, Louisville, Ky. Perfumed lotions and ointments	32,799	May 2	87	888
Peter & Co., Arthur, Louisville, Ky. Pills, tonics, ointments, or lotions	32,800	May 2	87	888
Peters Cartridge Company, Cincinnati, Ohio. Certain named ammunition	33,053	June 6	87	1780
Peters Cartridge Company, Cincinnati, Ohio. Certain named ammunition	33,174	June 27	87	2322
Petolite Fuel Syndicate, Limited, London, England. Artificial fuel	33,276	July 25	88	714
Petzler, William H., Lansingburg, N. Y. Shirts, collars, cuffs, and shirt-waists	32,923	May 23	87	1392
Petzler, William H., Lansingburg, N. Y. Shirts, collars, cuffs, and shirt-waists	32,924	May 23	87	1392
Petzler, William H., Lansingburg, N. Y. Shirts, collars, cuffs, and shirt-waists	32,925	May 23	87	1392
Peuser, Jacobo, Buenos Ayres, Argentina. Certain named articles of stationery	33,616	Oct. 24	89	702
Pewny & Co., Emil, Grenoble, France. Gloves	33,618	Oct. 24	89	702
Ph. Hake Manufacturing Company, New York, N. Y. Note-paper and envelops	33,503	Oct. 3	89	186
Phenique Chemical Company, St. Louis, Mo. Medical compound	32,321	Jan. 3	86	179
Phoenix Flour Mill, Evansville, Ind. Wheat-flour	33,440	Sept. 5	88	1895
Photo-Optical Co., London, England. Lenses for photographic and optical purposes	32,541	Feb. 28	86	1494
Pianophone Company, New York, N. Y. Pianos and self-playing attachments for pianos	32,342	Jan. 10	86	340
Pictet, Raoul, Paris, France, and New York, N. Y. Certain named drugs and chemicals	33,003	May 30	87	1605
Piedmont Manufacturing Company, Piedmont, S. C. Brown sheetings	32,931	May 23	87	1393
Pillsbury-Washburn Flour Mills Company, Limited, Minneapolis, Minn. Wheat breakfast-food	33,553	Oct. 10	89	351
Pillsbury-Washburn Flour Mills Company, Limited, Minneapolis, Minn. Wheat breakfast-food	33,554	Oct. 10	89	351
Pillsbury-Washburn Flour Mills Company, Limited, Minneapolis, Minn. Wheat breakfast-food	33,555	Oct. 10	89	351
Pillsbury-Washburn Flour Mills Company, Limited, Minneapolis, Minn. Wheat breakfast-food	33,556	Oct. 10	89	352
Pillsbury-Washburn Flour Mills Company, Limited, Minneapolis, Minn. Wheat breakfast-food	33,557	Oct. 10	89	352
Pillsbury-Washburn Flour Mills Company, Limited, Minneapolis, Minn. Oat food	33,558	Oct. 10	89	352
Pillsbury-Washburn Flour Mills Company, Limited, Minneapolis, Minn Oat food	33,559	Oct. 10	89	352
Pillsbury-Washburn Flour Mills Company, Limited, Minneapolis, Minn. Oat food	33,560	Oct. 10	89	352
Pillsbury-Washburn Flour Mills Company, Limited, Minneapolis, Minn. Oat food	33,561	Oct. 10	89	352
Pillsbury-Washburn Flour Mills Company, Limited, Minneapolis, Minn. Wheat breakfast-food	33,929	Dec. 26	89	2648
Pillsbury-Washburn Flour Mills Company, Limited, Minneapolis, Minn. Wheat breakfast-food	33,930	Dec. 26	89	2648
Pillsbury-Washburn Flour Mills Company, Limited, Minneapolis, Minn. Wheat breakfast-food	33,931	Dec. 26	89	2649
Pillsbury-Washburn Flour Mills Company, Limited, Minneapolis, Minn. Wheat breakfast-food	33,932	Dec. 26	89	2649
Pillsbury-Washburn Flour Mills Company, Limited, Minneapolis, Minn. Oat food	33,933	Dec. 26	89	2649
Pillsbury-Washburn Flour Mills Company, Limited, Minneapolis, Minn. Oat food	33,934	Dec. 26	89	2649
Pillsbury-Washburn Flour Mills Company, Limited, Minneapolis, Minn. Oat food	33,935	Dec. 26	89	2649
Pillsbury-Washburn Flour Mills Company, Limited, Minneapolis, Minn. Oat food	33,936	Dec. 26	89	2649
Pillsbury-Washburn Flour Mills Company, Limited, Minneapolis, Minn. Oat food	33,937	Dec. 26	89	2650
Pimbley Paint and Glass Company, St. Joseph, Mo. Paints, oils, and varnishes	32,901	May 16	87	1232
Pingree & Smith, Detroit, Mich. Shoes	32,688	Apr. 11	87	354
Pingree & Smith, Detroit, Mich. Shoes	32,689	Apr. 11	87	354
Pingree & Smith, Detroit, Mich. Shoes	32,867	May 16	87	1229
Pingree & Smith, Detroit, Mich. Shoes	33,534	Oct. 10	89	349
Pingree & Smith, Detroit, Mich. Shoes	33,647	Oct. 31	89	915
Pingree & Smith, Detroit, Mich. Shoes	33,864	Dec. 12	89	2256
Pioneer Tar Soap Company, Dayton, Ohio. Tar soap for toilet purposes	33,293	Aug. 1	88	944
Pittsburgh and Philadelphia Oil and Refining Company, Camden, N. J. Lubricating-oils	33,671	Oct. 31	89	917
Piver & Cie., L. T., Paris, France. Certain named toilet preparations	33,660	Oct. 31	89	916
Piver & Cie., L. T., Paris, France. Perfumes and soaps	33,914	Dec. 19	89	2458
Planters Compress Company, New York, N. Y. Bales of cotton and other fibrous goods	32,509	Feb. 21	86	1320
Pomeroy & Van Deusen, Westfield, Mass. Carriage-whips	33,611	Oct. 17	89	520
Pomril, Limited, Glasgow, Scotland. Cider	33,087	June 20	87	2114
Porterfield & Conklin, New York, N. Y. Candies and other confections	32,771	Apr. 25	87	693
Portland Cementfabrik Hemmoor, Hemmoor, Germany. Portland cement	32,582	Mar. 7	86	1632
Portland Cementfabrik Saturn, Hamburg, Germany. Cement	33,446	Sept. 5	88	1895
Portland Cordage Company, Portland, Oreg. Twine	33,021	June 6	87	1777

Alphabetical list of registrants of trade-marks—Continued.

Name, residence, and title	No.	Date.	Official Gazette. Vol.	Page.
Portland Packing Co., Portland, Me. Certain named canned goods	33,128	June 27	87	2317
Portland Packing Co., Portland, Me. Certain named canned goods	33,129	June 27	87	2317
Portland Packing Co., Portland, Me. Certain named canned goods	33,130	June 27	87	2317
Portland Packing Co., Portland, Me. Certain named canned goods	33,131	June 27	87	2318
Portland Packing Co., Portland, Me. Certain named canned goods	33,132	June 27	87	2318
Pratt, Francis, Jr., Boston, Mass. Pens	32,488	Feb. 14	86	1166
Pratt, Frank P., Jackson, Mich. Laxatives	33,625	Oct. 24	89	703
Prescott & Co., J. L., New York, N. Y. Polish	32,676	Apr. 4	87	177
Prescott, Robert J., Minneapolis, Minn. Tonics and nerve foods	32,414	Jan. 24	86	629
Preston B. Keith Shoe Company, Brockton, Mass. Boots and shoes made of certain named materials	33,117	June 27	87	2316
Preussel, Frank W., Mount Clemens, Mich. Acetylene-gas generators except acetylene-gas lamps	32,682	Apr. 4	87	178
Prevet & Cie., Ch., Paris, France. Antiseptics	32,893	May 16	87	1232
Prevet & Cie., Ch., Paris, France. Antiseptics	32,894	May 16	87	1232
Prevet & Cie., Ch., Paris, France. Filters	32,908	May 16	87	1233
Prevet & Cie., Ch., Paris, France. Antiseptics	33,046	June 6	87	1779
Price, John, Philadelphia, Pa. Certain named canned goods	33,549	Oct. 10	89	351
Probus Remedy Co., Evansville, Ind. Plasters for corns and bunions	33,049	June 6	87	1780
Pue, Charles P., Baltimore, Md. Medicines for certain named diseases	33,207	July 11	88	382
Purdy, Harry E., La Crosse, Wis. Root-beer	33,445	Sept. 5	88	1895
Puritan Shoe Company, Detroit, Mich. Boots and shoes	33,802	Nov. 28	89	1857
Pyle & Sons, James, New York, N. Y. Washing compounds	33,092	June 20	87	2114
Pyle & Sons, James, New York, N. Y. Washing compounds and soap powder	33,775	Nov. 21	89	1665
Pyro Paint Company, Norfolk, Va. Heat, water, and fire proof paint	32,902	May 16	87	1233
Quabaug Spring Water Co., North Brookfield, Mass. Spring-water	33,486	Sept. 19	88	2240
Quabaug Spring Water Co., North Brookfield, Mass. Spring-water	33,784	Nov. 21	89	1666
Quabaug Spring Water Co., North Brookfield, Mass. Spring-water	33,881	Dec. 12	89	2257
R. McWilliams, Limited, New Orleans, La. Certain named paints and painters' supplies	32,852	May 9	87	1072
R. Tellez & Company, New York, N. Y., and Havana, Cuba. Certain named cereal products	33,318	Aug. 8	88	1153
R. Wallace & Sons Manufacturing Company, Wallingford, Conn. Certain named articles of tinned ware	33,431	Aug. 20	88	1702
Ralston Yeast Company, Topeka, Kans. Certain named flours and foods	33,125	June 27	87	2317
Ramsey, Westley C., Akron, Ohio. Medicine for certain named diseases	32,933	May 23	87	1393
Randall Mattress Company, Cleveland, Ohio. Mattresses, pillows, and feathers	32,585	Mar. 14	86	1802
Ransom Bros. Company, Albert Lea, Minn. Smoking and plug tobacco, cigars, and cigarettes	33,243	July 18	88	543
Ransom Bros. Company, Albert Lea, Minn. Certain named groceries	33,253	July 18	88	544
Raphael Weill & Company, San Francisco, Cal. Corsets	32,724	Apr. 18	87	510
Rasin-Monumental Company, Baltimore, Md. Artificial fertilizers	33,344	Aug. 8	88	1155
Rasin-Monumental Company, Baltimore, Md. Artificial fertilizers	33,345	Aug. 8	88	1156
Raspe, Firm of Carl, Weissensee, Germany. Remedies for certain named diseases	33,281	July 25	88	714
Rath, Charles, Philadelphia, Pa. Metal-polish	32,332	Jan. 3	86	180
Rauh & Sons, E., Indianapolis, Ind. Food for live stock and poultry	32,472	Feb. 7	86	993
Reading Hardware Company, Reading, Pa. Certain builders' hardware	32,910	May 16	87	1233
Red "C" Oil Manufacturing Company, Baltimore, Md. Illuminating-oil	32,678	Apr. 4	87	177
Red Cross Drug and Chemical Company, Covington, Ky., and Cincinnati, Ohio. Certain named toilet articles and preparations	33,687	Nov. 7	89	1137
Red Cross Drug and Chemical Company, Covington, Ky., and Cincinnati, Ohio. Drugs, chemicals, medicines, medical compounds, and pharmaceutical preparations	33,732	Nov. 14	89	1338
Redick, Robert J., St. Louis, Mo. Roofing fabrics	32,632	Mar. 28	86	2167
Reese, Jacob W., Altoona, Pa. Wood-fillers	32,765	Apr. 25	87	692
Reisinger, Hugo, New York, N. Y. Carbons for electrical purposes	33,754	Nov. 14	89	1340
Reuter Medicine Co., Kansas City, Mo. Remedies for certain named diseases	32,732	Apr. 18	87	511
Reveron, Nicolas, Ponce, Porto Rico. Remedy for anemia	32,492	Feb. 14	86	1166
Reversible Collar Company, Boston and Cambridge, Mass. Collars and cuffs	32,687	Apr. 11	87	354
Rew & Clapp, Newark, N. J. Certain named articles of women's wearing-apparel	32,926	May 23	87	1392
Rex Pharmacal Co., Cleveland, Ohio. Blood-purifier	33,518	Oct. 3	89	187
Reynolds, Alvah L., New York, N. Y. Cheese	33,938	Dec. 26	89	2650
Rice's Sons, Bernard, New York, N. Y. Silver-plated ware	32,722	Apr. 18	87	510
Richard B. Green & Company, Limited, Liverpool, England. Tinned salmon	32,602	Mar. 21	86	1979
Richard B. Green & Company, Limited, Liverpool, England. Tinned salmon	33,183	July 4	88	189
Richardson, Alonzo F., New York, N. Y. Tonics for the hair and scalp	32,522	Feb. 21	86	1321
Richardson, Alonzo F., New York, N. Y. Tonics for the hair and scalp	32,523	Feb. 21	86	1321
Richardson, Alonzo F., New York, N. Y. Refined whisky	32,876	May 16	87	1230
Richardson, Alonzo F., New York, N. Y. Medicinal soap	33,156	June 27	87	2320
Richardson, John R., Madera and San Francisco, Cal. Roller-bearings for vehicle-wheels	33,054	June 6	87	1780
Richmond, Harry C., Lima, Ohio. Soap in liquid form, dentifrices, and hair-tonic and dandruff cure	33,155	June 27	87	2320
Rickey, Joseph K., New York, N. Y. Gin and whisky	32,477	Feb. 7	86	993
Ries, Jacob, Shakopee, Minn. Mineral waters and carbonated beverages	32,647	Mar. 28	86	2169
Ries, Jacob, Shakopee, Minn. Carbonated beverages	33,086	June 20	87	2114
Rink, Max, New York, N. Y. Soap and toilet powders	33,332	Aug. 8	88	1154
Rival Saw Manufacturing Company of New Jersey, Camden, N. J. Hack-saws	32,857	May 9	87	1072
Robert Reis & Company, New York, N. Y. Mercerized knit cotton underwear	33,453	Sept. 12	88	2063
Roberts, James W., Chicago, Ill. Remedy for certain named diseases	32,844	May 9	87	1071
Robertson, John, Philadelphia, Pa. Food remedy for nervous diseases and general debility	33,769	Nov. 21	89	1664
Robie, George T., Chicago, Ill. Pneumatic tires	32,623	Mar. 21	86	1982
Robie, George T., Chicago, Ill. Machine-oil	32,679	Apr. 4	87	178
Robinson Brewing Company, Boston, Mass. Ale	33,594	Oct. 17	89	518
Robinson Brewing Company, Boston, Mass. Ale and porter	33,595	Oct. 17	89	518
Robinson, Charles M., Toledo, Ohio. Vapor-bath apparatus	32,777	Apr. 25	87	693
Robison, Leonard A., Canton, Ill. Remedy for certain named diseases	32,991	May 30	87	1604
Rodemann, Watson. (See Graft and Rodemann.)				
Roes, William, Baltimore, Md. Bread and cakes	33,693	Nov. 7	89	1137
Roger & Gallet, Paris, France. Certain named toilet articles and preparations	33,093	June 20	87	2114
Romeo & Co., F., New York, N. Y. Macaroni	33,496	Sept. 26	88	2408
Rooney, Joseph H., Chico, Cal. Tamale spice preparation	32,774	Apr. 25	87	693
Rosedale, Eugene, Boston, Mass. Powdered cocoas and chocolates	32,366	Jan. 10	86	343
Rosedale, Eugene, Boston, Mass. Certain named spices	32,386	Jan. 17	86	487
Rosedale, Eugene, Boston, Mass. Certain named extracts	32,387	Jan. 17	86	487
Rosenfeld & Co., E., Baltimore, Md. Overshirts	33,574	Oct. 17	89	517
Ross, Charles F., Toronto, Canada. Certain sugar-coated tablets	33,584	Oct. 17	89	517
Rossman, Robert, New York, N. Y. Solidified or semisolidified alcoholic burning compound	32,619	Mar. 21	86	1981
Rotkowitz Bros., New York, N. Y. Dyspepsia-pastils	33,425	Aug. 29	88	1701
Rowland, Henry W., and W. H. Harrison, Crosby, England. Tinned fruits	32,814	May 2	87	890
Rowland, Henry W., and W. H. Harrison, Crosby, England. Tinned fruits	32,815	May 2	87	890
Royal & Co., Forrest B., New York, N. Y. Certain named dry goods	33,642	Oct. 31	89	915
Royal Soap Co., Winnipeg, Canada. Polishing-soap	32,634	Mar. 28	86	2168

Alphabetical list of registrants of trade-marks—Continued.

Name, residence, and title.	No.	Date.	Official Gazette. Vol.	Page.
Rubine É Hijos, Corunna, Spain. Chocolates	33,649	Oct. 31	89	916
Rubino, Jacob, New York, N. Y. Mineral water	33,414	Aug. 29	88	1700
Rubino, Jacob, New York, N. Y. Mineral water	33,415	Aug. 29	88	1700
Rudge-Whitworth, Limited, Coventry, England. Cycles	32,455	Jan. 31	86	796
S. A. Woods Machine Company, Boston, Mass. Certain named woodworking machinery	33,227	July 11	88	384
S. Hamill Company, Keokuk, Iowa. Certain named groceries	33,037	June 6	87	1779
S. Hamill Company, Keokuk, Iowa. Canned groceries except olives	33,272	July 25	88	714
S. S. Pierce Company, Boston, Mass. Scotch whisky	32,497	Feb. 14	86	1167
S. S. Pierce Company, Boston, Mass. Cigars	32,739	Apr. 18	87	511
S. S. Pierce Company, Boston, Mass. Wines and alcoholic liquors	33,067	June 13	87	1956
S. S. Pierce Company, Boston, Mass. Substitute for coffee	33,068	June 13	87	1956
S. S. Pierce Company, Boston, Mass. Ale	33,813	Nov. 28	89	1858
S. S. White Dental Manufacturing Company, Philadelphia, Pa.; Chicago, Ill.; New York and Rochester, N. Y.; Boston, Mass.; Atlanta, Ga.; Berlin, Germany, and Buenos Ayres, Argentina. Tooth-paste	32,479	Feb. 7	86	994
S. S. White Dental Manufacturing Company, Philadelphia, Pa.; Chicago, Ill.; New York and Rochester, N. Y.; Boston, Mass.; Atlanta, Ga.; Berlin, Germany, and Buenos Ayres, Argentina. Dental gold	32,539	Feb. 28	86	1494
Saarburg Moselle Export, J. C. Schweimler, Homburg-von-der-Höhe, Germany. Certain named wines	33,458	Sept. 12	88	2063
Sachs Brothers & Co., San Francisco, Cal. Yarns	33,578	Oct. 17	89	517
Sadler & Co., F. H., Attleborough, Mass. Rings	32,408	Jan. 24	86	628
Sager Gear Company, Rochester, N. Y. Certain named machines	32,823	May 2	87	890
Salts Textile Manufacturing Company, Bridgeport, Conn., and New York, N. Y. Plushes	32,537	Feb. 28	86	1494
Sanatel Tobacco Company, Wheeling, W. Va. Certain named articles of manufactured tobacco	33,442	Sept. 5	88	1895
Sanden, Albert T., New York, N. Y. Electrical devices for body-wear	33,840	Dec. 5	89	2064
Sanders, John M., Dalton, Ga. Pea and bean hullers	33,432	Aug. 29	88	1702
Sapotoxin Manufacturing Co., Chicago, Ill. Scouring compounds	32,898	May 16	87	1232
Saul, Philip C., Albany, N. Y. Shoes	32,630	Mar. 28	86	2167
Savory, Harry L., London, England. Cigarettes	32,973	May 30	87	1603
Schaeffer & Co., L. A., Dayton, Ohio. Cigars, cheroots, stogies, and cigarettes	33,026	June 6	87	1778
Schaffer & Budenberg, New York, N. Y. Thermometers	33,056	June 13	87	1955
Schaffer & Budenberg, New York, N. Y. Thermometers	33,104	June 20	87	2115
Scheele, August, Elgin, Ill. Bread	33,247	July 18	88	543
Schiesser, Jacques, Radolfzell, Germany. Underwear	33,305	Aug. 8	88	1151
Schlater Bros., Philadelphia, Pa. Bread	33,123	June 27	87	2317
Schlater Bros., Philadelphia, Pa. Bread	33,248	July 18	88	543
Schmidt-Thies Pure Food Co., Hoboken, N. J. Certain named foods and relishes	33,074	June 13	87	1956
Schmidt-Thies Pure Food Co., Hoboken, N. J. Relish for cold meats and salads	33,498	Sept. 26	88	2408
Schmitt, Margaretha, New York, N. Y. Washing fluid	33,946	Dec. 26	89	2651
Schmitz, Ferdinand H., Cologne-Ehrenfeld, Germany. Certain household utensils and bric-a-brac	33,105	June 20	87	2115
Schoolcraft & Son, C. R., Concord, N. H. Flour	33,462	Sept. 12	88	2064
Schwarz, Samuel, Newark, N. J. Certain named curatives	33,340	Aug. 8	88	1155
Schweickhardt, Richard & Ferdinand, St. Louis, Mo. Antiseptic and germicidal compound	32,518	Feb. 21	86	1321
Scott & Co., Oklahoma, Okla. Ter. Tasteless castor-oil	33,099	June 20	87	2115
Scranton Stove Works, Scranton, Pa. Stoves and ranges	33,956	Dec. 26	89	2652
Scribner, Frank, New York, N. Y. Mouth-harmonicas	33,568	Oct. 17	89	516
Seaman, Robert F., Jersey City, N. J. Paints	33,255	July 18	88	544
Searles, James W., Salt Lake City, Utah. Remedy for certain named diseases	32,889	May 16	87	1231
Sears, Frank, New York, N. Y. Portland cement	33,790	Nov. 21	89	1667
Seavey, Frank A., Beverly, Mass. Leather, canvas, and rubber boots, shoes, and slippers	33,353	Aug. 15	88	1329
Seeger & Clarke, New York, N. Y. Electrical surgical apparatus	33,287	Aug. 1	88	943
Seeman Brothers, New York, N. Y. Certain named canned and bottled goods	33,312	Aug. 8	88	1152
Seeman Brothers, New York, N. Y. Certain named canned and bottled goods	33,313	Aug. 8	88	1152
Seeman Brothers, New York, N. Y. Certain named canned and bottled goods	33,314	Aug. 8	88	1152
Seeman Brothers, New York, N. Y. Certain named canned and bottled goods	33,315	Aug. 8	88	1152
Segal & Menzer, Scranton, Pa. Stogies	33,880	Dec. 12	89	2257
Semelline-Compagnie, Gesellschaft mit Beschränkter Haftung, Munich, Germany. Chemical preparations for the preservation of leather	33,818	Nov. 28	89	1859
Sequin-Bronner, Firm of C., Rüti, Switzerland. Non-conducting material for making certain named articles	33,471	Sept. 12	88	2064
Sessinghaus Milling Company, St. Louis, Mo. Wheat-flour	32,775	Apr. 25	87	693
Seville Packing Company, New York, N. Y. Olive-oil	32,570	Mar. 7	86	1631
Seville Packing Company, New York, N. Y. Olives	33,883	Dec. 12	89	2257
Seyd, Firm Otto, New York, N. Y. Curtains	33,536	Oct. 10	89	349
Seymour, Mary A. B., San Francisco, Cal. Cleansing compound	33,702	Nov. 7	89	1139
Shaeffer, Arling, Chicago, Ill. Mandolin-picks	33,710	Nov. 7	89	1139
Shafer & Bradrick, Chicago, Ill. Remedies for a certain named disease	32,804	May 2	87	889
Shantz, John B., and F. Strasburg, Buffalo, N. Y. Stamped or turned buttons	33,121	June 27	87	2317
Shapleigh Coffee Company, Boston, Mass. Coffees and teas	32,441	Jan. 31	86	795
Shapleigh Coffee Company, Boston, Mass. Teas and coffees	32,640	Mar. 28	86	2168
Sharum, Eugene, New York, N. Y. Certain named toilet preparations	33,738	Nov. 14	89	1338
Shaw, Hammond & Carney, Portland, Me. Coffee	33,485	Sept. 19	88	2240
Sheaffer, Alfred B., Philadelphia, Pa. Whisky	32,808	May 2	87	889
Sheaffer, Alfred B., Philadelphia, Pa. Whisky	32,981	May 30	87	1603
Sheehy, Firm of Patrick H., Washington, D. C. Wheat-flour	33,271	July 25	88	714
Sheldon, Thomas, Poughkeepsie, N. Y. Remedy for certain named diseases	33,768	Nov. 21	89	1664
Shelley, Percy, Longton, England. Earthenware	33,106	June 20	87	2115
Shelley, Percy, Longton, England. Earthenware, china, porcelain, and parian	33,808	Nov. 28	89	1858
Shepard, Almyr J., East Hartford, Conn. Remedy for rheumatism and headache	32,562	Feb. 28	86	1496
Sherman Bros. & Co., Chicago, Ill., Glasgow, Scotland, and London, England. Tea	32,697	Apr. 11	87	355
Sherman, Roger I., Boston, Mass. Certain named groceries	33,126	June 27	87	2317
Sherwood, Edwin E., Bridgeport, and L. B. Switzer, Southport, Conn. Sanitary lotions for toilet purposes	32,313	Jan. 3	86	178
Sherwood, John W., New York, N. Y. Watchcases, watch-movements, and jewelry	32,462	Feb. 7	86	992
Sherwood, John W., New York, N. Y. Watchcases, watch-movements, and jewelry	32,463	Feb. 7	86	992
Shonberg, Isaac, New York, N. Y. Certain named metals	33,527	Oct. 3	89	188
Shook, Jacob B., Columbus, Ohio. Live-stock remedies	32,662	Apr. 4	87	176
Shoyer & Co., D. W., New York, N. Y. Hammocks	32,584	Mar. 14	86	1802
Shryock, James W., Pueblo, Colo. Instrument for removing electricity from the human system	33,051	June 6	87	1780
Shryock-Johnson Manufacturing Company, St. Louis, Mo. Cigars	32,551	Feb. 28	86	1495
Shuman & Co., A., Boston, Mass. Ladies' shoes	32,866	May 16	87	1229
Shupert, Clayton O., and W. Stroop, Dayton, Ohio. Leaf-tobacco	32,766	Apr. 25	87	692
Sibley, William E., Freeport, Ill. Certain named groceries	33,815	Nov. 28	89	1858
Silenette Proprietary, Limited, Melbourne, Victoria. Drugs and chemicals	32,652	Mar. 28	86	2169
Silenette Proprietary, Limited, Melbourne, Victoria. Surgical instruments and appliances	32,657	Mar. 28	86	2170
Silver Spring Bleaching and Dyeing Company, Providence, R. I. Cotton goods	33,077	June 20	87	2113

Alphabetical list of registrants of trade-marks—Continued.

Name, residence, and title.	No.	Date.	Official Gazette. Vol.	Page.
Silverstein Bros., New York, N. Y. Skirts	32,403	Jan. 24	86	628
Simmons, Sidney A., Texarkana, Ark. Liver remedy	32,843	May 9	87	1071
Simms & Walker, Thurmond, W. Va. Whisky	33,811	Nov. 28	89	1858
Simons Bro. & Co., Philadelphia, Pa. Thimbles	32,540	Feb. 28	86	1494
Simonson, Joseph, Gainesville, Fla. Ointment or salve	33,544	Oct. 10	89	350
Simpson, Robert L., Toronto, Canada. Tea	33,133	June 27	87	2318
Sir Isaac Pitman & Sons, Limited, Bath, England. Books	32,964	May 30	87	1602
"Sirius" Luftgas-Automaten-Gesellschaft Hamburg, mit Beschränkter Haftung, Hamburg, Germany. Certain named carbureters, machines, and fittings for illuminating purposes	32,546	Feb. 28	86	1495
"Sirius" Luftgas-Automaten-Gesellschaft Hamburg, mit Beschränkter Haftung, Hamburg, Germany. Mineral oils and other hydrocarbons	32,547	Feb. 28	86	1495
Sleepy Eye Milling Company, Sleepy Eye, Minn., and Chicago, Ill. Cereal coffee made from wheat or grain	32,474	Feb. 7	86	993
Sleepy Eye Milling Company, Sleepy Eye, Minn. Self-raising flour	33,039	June 6	87	1779
Sleepy Eye Milling Company, Sleepy Eye, Minn. Flour and certain named cereal food products	33,511	Oct. 3	89	187
Sleepy Eye Milling Company, Sleepy Eye, Minn. Flour and certain named cereal food products	33,512	Oct. 3	89	187
Smith, Alva J., Cleveland, Ohio. Paper for ticket-making purposes	32,965	May 30	87	1602
Smith, Brett & Co., New York, N. Y. Coffee	33,136	June 27	87	2318
Smith Co., Marvin, Chicago, Ill. Farm machinery and agricultural implements	33,898	Dec. 12	89	2258
Smith & Hemenway Company, Utica and New York, N. Y. Certain named cutlery and hardware specialties	33,350	Aug. 8	88	1156
Smith, Henry B., Chicago, Ill. Wheat-flour	33,375	Aug. 15	88	1331
Smith, Henry B., Chicago, Ill. Wheat-flour	33,376	Aug. 15	88	1331
Smith, Henry B., Chicago, Ill. Wheat-flour	33,377	Aug. 15	88	1331
Smith, Kline & French Company, Philadelphia, Pa. Medicine for a certain named disease	33,890	Dec. 12	89	2258
Smith, Kline & French Company, Philadelphia, Pa. Medicine for a certain named disease	33,891	Dec. 12	89	2258
Smith, Kline & French Company, Philadelphia, Pa. Food for infants and invalids	33,928	Dec. 26	89	2648
Smith & Sons, Peter, Detroit, Mich. Certain named groceries	32,743	Apr. 18	87	512
Smith, William B., New London, Conn. Ointments	33,735	Nov. 14	89	1338
Smith, Worthington & Co., New York, N. Y. Saddle-housings, saddle-pads, and horse-clothing	32,693	Apr. 11	87	354
Smith, Worthington & Co., New York, N. Y. Saddle-housings, saddle-pads, and horse-clothing	32,694	Apr. 11	87	355
Smith, Worthingtou & Co., New York, N. Y. Saddlery and harness, including other named articles for horses	32,726	Apr. 18	87	510
Snow, George L., Boston, Mass. Men's shoes	33,576	Oct. 17	89	517
Snowdon, Sons & Company, Limited, London, England. Grease for lubricating purposes	32,533	Feb. 21	86	1322
Snowdon, Sons & Company, Limited, London, England. Asbestos prepared for preventing radiation of heat	32,961	May 23	87	1396
Société Anonyme des Mines de Yauli, Paris, France. Certain named liqueur or beverage	32,306	Jan. 10	86	342
Société Anonyme des Plaques et Papiers Photographiques, A. Lumière & Ses Fils, Lyons-Montplaisir, France. Photographs, chromos, and plaques in colors	32,685	Apr. 11	87	354
Sorrentino, Eugenio, New York, N. Y. Musical instruments and sheet-music	33,450	Sept. 12	88	2063
South Bend Iron Works, South Bend, Ind. Plows and their parts	32,429	Jan. 24	86	630
South Bend Iron Works, South Bend, Ind. Plows and their parts	32,430	Jan. 24	86	630
South Bend Iron Works, South Bend, Ind. Plows	32,914	May 16	87	1234
Souther Brewing Company, Boston, Mass. Lager-beer	33,507	Oct. 3	89	186
Southern Soda Works Company, Nashville, Tenn. Baking-powder	33,907	Dec. 19	89	2457
Spaulding-Robbins Disc Plow Company, San Francisco, Cal. Rotary-disk plows and parts of same	33,408	Aug. 22	88	1524
Spencerian Pen Company, New York, N. Y. Pens	32,661	Apr. 4	87	176
Spitz Bros. & Mork, Boston, Mass. Certain named wearing-apparel	33,452	Sept. 12	88	2063
Spramotor Co., London, Canada. Spray-pumps, their parts and attachments, and certain materials for spraying	33,469	Sept. 12	88	2064
Spuhler, Henry M., Reading, Pa. Catsup	33,597	Oct. 17	89	519
St. John, George E., Yakima, Wash. Writing-tablets	33,581	Oct. 17	89	517
St. Louis Sweat Pad Works, St. Louis, Mo. Sweat-pads and horse-collars	33,310	Aug. 8	88	1152
Stadecker & Emsheimer, New York, N. Y. Bonnet and hat frames	32,861	May 16	87	1229
Stahl & Straub, Philadelphia, Pa. Chemical composition, a substitute for hard rubber	33,275	July 25	88	714
Standard Fashion Company, New York, N. Y. Patterns for garments	33,617	Oct. 24	89	702
Standard Snuff Company, Nashville, Tenn. Scotch snuff	32,941	May 23	87	1394
Standard Thermometer and Electric Company, Peabody, Mass. Arc-lamps	32,335	Jan. 3	86	180
Stanley Rule and Level Company, New Britain, Conn. Edgewise-folding rules	33,953	Dec. 26	89	2652
Stanley Rule and Level Company, New Britain, Conn. Edgewise-folding rules	33,954	Dec. 26	89	2652
Star Ball Retainer Co., Limited, Lancaster, Pa. Ball-retainers	33,674	Oct. 31	89	918
Star Chemical Company, Indianapolis, Ind. Certain named medicinal beverage	33,853	Dec. 5	89	2066
Stärke-Zucker-Fabrik-Actien-Gesellschaft, vorm. C. A. Köhlmann & Co., Frankfort-on-the-Oder, Germany. Starch	33,270	July 25	88	713
Steel Ball Company, Kenosha, Wis., and Chicago, Ill. Steel balls	33,172	June 27	87	2322
Steel, John, Grenoble, France. Leather for gloves and leather gloves	32,337	Jan. 10	86	340
Steiner & Strauss, New York, N. Y. Whisky	32,809	May 2	87	889
Steinwender-Stoffregen Coffee Company, St. Louis, Mo. Roasted coffee	32,985	May 30	87	1604
Stephano Bros., Philadelphia, Pa. Cigarettes and smoking-tobacco	33,327	Aug. 8	88	1154
Stephano Bros., Philadelphia, Pa. Cigarettes	33,698	Nov. 7	89	1138
Stephenson, Amelia F., Forestville, Conn. Certain named medicinal preparations	32,760	Apr. 25	87	692
Stern & Co., Jos. W., New York, N. Y. Sheet-music	32,597	Mar. 21	86	1979
Stern & Saalberg, New York, N. Y. Confectionery	33,246	July 18	88	543
Sterns & Co., J. C., Buffalo, N. Y. Incandescent electric lamps	33,952	Dec. 26	89	2651
Stewart & Co., R. B., Baltimore, Md. Certain named grocery specialties	32,946	May 23	87	1395
Stewart, Harry E., Palatka, Fla. Toilet preparation in the form of a cream and of a soap	33,686	Nov. 7	89	1137
Stewart Snuff Company, Clarksville, Tenn. Snuff	33,739	Nov. 14	89	1338
Stirling Silk Manufacturing Company, Stirling, N. J., and New York, N. Y. Silk fabrics	32,404	Jan. 24	86	628
Stoddard, Gilbert & Co., New Haven, Conn. Wheat-flour	32,416	Jan. 24	86	629
Stohn's Sons, C., Jersey City, N. J. Woven fabrics	32,786	May 2	87	887
Stone & Co., N. O., Cleveland, Ohio. Boots, shoes, and slippers	32,869	May 16	87	1230
Stover Manufacturing Company, Freeport, Ill. Windmills	32,457	Jan. 31	86	796
Stover Manufacturing Company, Freeport, Ill. Feed-mills	32,458	Jan. 31	86	796
Stover Manufacturing Company, Freeport, Ill. Horse-powers	32,459	Jan. 31	86	796
Stover Manufacturing Company, Freeport, Ill. Spring-hinges	32,460	Jan. 31	86	796
Strasburg, Ferdinand. (See Shantz and Strasburg.)				
Strauss, Ferdinand, New York, N. Y. Mouth-harmonicas	33,727	Nov. 14	89	1337
Strauss, Sachs & Co., New York, N. Y. Skirt-binding	32,377	Jan. 17	86	486
Strauss, Sachs & Co., New York, N. Y. Harmonicas	32,409	Jan. 24	86	628
Strohm, Frederick H., Wilkes-Barré, Pa. Foot-powders	33,422	Aug. 29	88	1701
Strong & Garfield Company, Portland, Me., and Boston, Mass. Boots and shoes and soles and uppers for same	32,434	Jan. 31	86	794
Stroop, William. (See Shupert and Stroop.)				
Stull & Co., J. N., Toledo, Ohio. Bluing-tablets	33,751	Nov. 14	89	1340

Alphabetical list of registrants of trade-marks—Continued.

Name, residence, and title.	No.	Date.	Official Gazette. Vol.	Page.
Stumpf, John, Gretna, La. Sticky paper for insects	32,858	May 16	87	1229
Stutz & Sons, Louis, New York, N. Y. Certain named provisions	32,418	Jan. 24	86	629
Stutz & Sons, Louis, New York, N. Y. Certain named provisions	32,419	Jan. 24	86	629
Supplee Hardware Company, Philadelphia, Pa. Axes and hatchets	33,257	July 18	88	544
Supplee Hardware Company, Philadelphia, Pa. Axes and other edge-tools	33,283	July 25	88	714
Sussfeld, Lorsch & Co., New York, N. Y. Finger-ring gages	33,260	July 25	88	713
Sutton, Emma B., New Canaan, Conn. Cleansing compound for household use	33,860	Dec. 5	89	2066
Swartwout, Emma J., Boston, Mass. Certain named apparel for men and boys	33,180	July 4	88	188
Swartwout, Emma J., Boston, Mass. Bicycles for men, women, and children	33,198	July 4	88	190
Swedish Match Company, Limited, London, England. Matches	32,555	Feb. 28	86	1495
Swedish Match Company, Limited, London, England. Matches	32,696	Apr. 11	87	355
Sweetser, Pembrook & Co., New York, N. Y. Piece dry goods	33,115	June 27	87	2316
Swift & Company, Chicago, Ill. Certain named provisions	32,420	Jan. 24	86	629
Switzer, Luin B. (See Sherwood and Switzer.)				
Syracuse Chilled Plow Company, Syracuse, N. Y. Plows and their parts	32,507	Feb. 14	86	1168
Syracuse Chilled Plow Company, Syracuse, N. Y. Plows and their parts	32,596	Mar. 14	86	1802
Syracuse Dry Goods Company, Syracuse, N. Y. Coats, pants, and overalls	33,179	July 4	88	188
Tabor, Thomas H., Ellijay, and J. E. Craig, Gainesville, Ga. Certain solution for cleansing purposes	32,437	Jan. 31	86	794
Taeschner, Emil, Berlin, Germany. Remedies for catarrh	33,821	Nov. 28	89	1859
Taite's Sons, Joseph G., Philadelphia, Pa. Seamless-tin boxes	32,907	May 16	87	1233
Taussig, Emil, New York, N. Y. Disinfectants and insecticides	32,482	Feb. 7	86	994
Taylor, William P., Boston, Mass. Shoes	33,204	July 11	88	382
Telephone Manufacturing Company, Sumter, S. C. Telephone appliances	32,505	Feb. 14	86	1168
Terezol Company, Limited, Manchester, England. Polishing preparations and materials	33,294	Aug. 1	88	944
Terry, George F., Waterville, Me. Remedial agents, including cathartics and blood-purifiers	32,993	May 30	87	1604
Teuscher, Fredrick, South Bend, Ind. Certain named bakery products	33,484	Sept. 19	88	2240
Texas Star Flour Mills, Galveston, Tex. Certain named cereals	33,044	June 6	87	1779
Thomas & Clarke, Peoria, Ill. Crackers	32,699	Apr. 11	87	355
Thomas G. Plant Company, Boston, Mass. Men's, women's, and children's boots and shoes	32,341	Jan. 10	86	340
Thomas White Stove Company, Quincy, Ill. Stoves and ranges	32,822	May 2	87	890
Thompson, Charles A., St. Louis, Mo. Boiler-tubes	33,899	Dec. 12	89	2258
Thompson, Hester A., New York, N. Y. Paste-like cleansing compound	33,212	July 11	88	383
Thompson & Leavitt, Boston, Mass. Wines and whiskies	32,552	Feb. 28	86	1495
Thompson, William T. (See Wilson and Thompson.)				
Thomsen & Co., New York, N. Y. Illuminating-oil	33,708	Nov. 7	89	1139
Thomson & Taylor Spice Company, Chicago, Ill. Roasted coffee	33,320	Aug. 8	88	1153
Thorpe & Ricks, Rocky Mount, N. C. Leaf-tobacco	33,942	Dec. 26	89	2650
Tietgens & Robertson, Hamburg, Germany. Lard, sausages, and bacon	33,184	July 4	88	189
Tillmann & Bendel, San Francisco, Cal. Certain named groceries	33,650	Oct. 31	89	916
Tippett, Charles B., Louisville, Ky. Topical remedy for certain named injuries and diseases	32,934	May 23	87	1393
Tochtermann & Company, New York, N. Y. Curative instruments for certain named diseases	33,286	Aug. 1	88	943
Todd & Co., Edward, New York, N. Y. Fountain-pens	33,475	Sept. 19	88	2239
Tolke, Minnie M., Covington, Ky., and Cincinnati, Ohio. Preparations for the removal of hair	32,729	Apr. 18	87	510
Toril Elweiss und Fleisch Extract Company, Gesellschaft mit Beschränkter Haftung, Altona, Germany. Albumen, preparations of albumen, and extract of meat	33,858	Dec. 5	89	2066
Tower Manufacturing and Novelty Company, New York, N. Y. Lead-pencils and fountain-pens	32,920	May 23	87	1392
Tower Manufacturing and Novelty Company, New York, N. Y. Carbon-paper	33,833	Dec. 5	89	2064
Towle Syrup Company, St. Paul, Minn. Syrup	33,187	July 4	88	189
Towle Syrup Company, St. Paul, Minn. Table-syrups	33,463	Sept. 12	88	2064
Townsend, Samuel A. (See Cavanagh and Townsend.)				
Trahern Pump Company, Rockford, Ill. Water-pumps	33,794	Nov. 21	89	1667
Treadway, Morgan J., Delvinta, Ky. Certain named medicines	32,841	May 9	87	1070
Trench's Remedies, Limited, Dublin, Ireland. Certain named remedies	33,058	June 13	87	1955
Trowbridge, William S., Meadville, Pa. Chocolate-covered molasses chips	33,072	June 13	87	1956
Trueb & Isaacs, New York, N. Y. Embroidery, patterns, designs, and embroidering materials	32,966	May 30	87	1602
Tryon & Co., Edward K., Jr., Philadelphia, Pa. Golf clubs and balls	33,171	June 27	87	2320
Tuckahoe Mineral Springs Company, Milton, Pa. Lithia and magnesia water	32,872	May 16	87	1230
Tulloch, James, Chicago, Ill. Soaps and soap powders	32,528	Feb. 21	86	1322
Turnbull, James G., Barton, Newport, Brownington, Charleston, and Morgan, Vt. Butter	33,885	Dec. 12	89	2257
Turner, Edwin B., Elmira, N. Y. Certain named medicinal preparations	32,905	May 30	87	1604
Turner & Harrison, Philadelphia, Pa. Pens	32,788	May 2	87	887
Tympalyn Company, Limited, Boston, Mass. Make-ready fabric for printers	33,870	Dec. 12	89	2256
Tysen & Totten, New York, N. Y. Domestic wines	32,740	Apr. 18	87	511
U. S. Wind Engine and Pump Company, Batavia, Ill. Piston-pumps	33,197	July 4	88	190
Ullrich & Co., J., New York, N. Y. Stylographic and fountain pens	32,721	Apr. 18	87	510
Union Chemical Company, Philadelphia, Pa. Illuminating-oil	32,534	Feb. 21	86	1322
Union Metallic Cartridge Company, Bridgeport, Conn. Smokeless-powder cartridges and primers therefor	33,388	Aug. 15	88	1332
United States Chemico-Wood Company, Detroit, Mich. Composition for umbrella-handles	33,030	June 6	87	1778
Uwanta Blue Starch Company, St. Joseph, Mo. Blue starch	33,188	July 4	88	189
Vacuum Oil Company, Rochester, N. Y. Oils	32,368	Jan. 10	86	343
Vacuum Oil Company, Rochester, N. Y. Lubricating-oils	32,592	Mar. 14	86	1802
Vacuum Oil Company, Rochester, N. Y. Lubricating-oils	32,593	Mar. 14	86	1802
Vacuum Oil Company, Rochester, N. Y. Lubricating-oils	32,900	May 16	87	1232
Vacuum Oil Company, Rochester, N. Y. Certain named waxes and oils	33,600	Oct. 17	89	519
Vacuum Oil Company, Rochester, N. Y. Lubricating-oils	33,670	Oct. 31	89	917
Vacuum Oil Company, Rochester, N. Y. Lubricating-oils	33,707	Nov. 7	89	1139
Valentine, Emma F., Chatham, N. J. Medicinal compound for certain named diseases	32,663	Apr. 4	87	176
Valley Forge Cutlery Company, Newark, N. J. Pocket-knives, razors, scissors, and shears	33,758	Nov. 14	89	1340
Van Lill Preserving Company, Baltimore, Md. Certain named food products	33,216	July 11	88	383
Van Vleet-Mansfield Drug Company, Memphis, Tenn. Hair-restorer	32,668	Apr. 4	87	176
Van Vredenburgh, George W., New York, N. Y. Certain named medicines	33,144	June 27	87	2319
Van Zandt, Jacobs & Co., Troy, N. Y. Shirts, collars, and cuffs	33,532	Oct. 10	89	349
Van Zandt, Jacobs & Co., Troy, N. Y. Collars and cuffs	33,718	Nov. 14	89	1337
Vaŋt Woud, Victor C., New York, N. Y. Fountain-syringes and water-bottles	33,361	Aug. 15	88	1329
Velvelette Manufacturing Co., Chicago, Ill. Certain named surface coating	33,343	Aug. 8	88	1155
Vetter & Co., J. G., Cleveland, Ohio. Dyspepsia remedy	33,519	Oct. 3	89	187
Victor Rubber Company, Springfield, Ohio. Manufactured rubber goods	32,565	Mar. 7	86	1631
Victor Sporting Goods Company, Springfield, Mass. Certain named sporting goods	33,640	Oct. 24	89	704
Villette, Susan D., Fort Myer, Va., and Washington, D. C. Liniments and lotions for certain named diseases	32,575	Mar. 7	86	1632
Villette, Susan D., Fort Myer, Va., and Washington, D. C. Liniments and lotions	33,733	Nov. 14	89	1338
Virginia Mineral Springs Company, Roanoke, Va., and Waterbury, Conn. Lithia spring water	33,443	Sept. 5	88	895
Vitapura Company, Golden Gate, Cal. Remedies in powdered form for certain named diseases	33,825	Nov. 28	89	1859
Volasem Co., New York, N. Y. Antidote to cocaine or any of its compounds, such as eucaine	32,317	Jan. 3	86	179

Alphabetical list of registrants of trade-marks—Continued.

Name, residence, and title	No.	Date.	Official Gazette. Vol.	Page.
Volenite, Limited, London, England. Insulating composition	33,429	Aug. 29	88	1702
Vuillard & Strauss, St. Claude, France. Tobacco-pipes	32,400	Jan. 17	86	488
W. H. Ketzeback Milling Company, Wells and Minneapolis, Minn. Wheat-flour	32,951	May 23	87	1395
W. H. Sills Mica Company, Chicago, Ill. Mica for insulating purposes	32,346	Jan. 10	86	341
W. J. Gould & Company, Detroit, Mich. Coffee	33,134	June 27	87	2318
W. J. Gould & Company, Detroit, Mich. Certain named groceries	33,221	July 11	88	384
W. Mielck, Schwanapotheke, Hamburg, Germany. Vehicles for chemical, medicinal, and pharmaceutical substances	32,371	Jan. 10	86	343
W. P. Fuller & Company, San Francisco, Sacramento, Los Angeles, Stockton, Oakland, and San Diego, Cal.; Portland, Oreg. and Seattle, Wash. Sheet and other window-glass	32,957	May 23	87	1395
W. P. Fuller & Company, San Francisco, Sacramento, Los Angeles, Stockton, Oakland, and San Diego, Cal.; Portland, Oreg., and Seattle, Wash. Sheet and other window-glass	32,958	May 23	87	1395
W. P. Fuller & Company, San Francisco, Sacramento, Los Angeles, Stockton, Oakland, and San Diego, Cal.; Portland, Oreg., and Seattle, Wash. Sheet and other window-glass	32,959	May 23	87	1396
W. P. Fuller & Company, San Francisco, Sacramento, Los Angeles, Stockton, Oakland, and San Diego, Cal.; Portland, Oreg., and Seattle, Wash. Sheet and other window-glass	32,960	May 23	87	1396
W. S. Quinby Company, Boston, Mass. Butter	32,327	Jan. 3	86	179
W. S. Quinby Company, Boston, Mass. Butter	32,833	May 9	87	1069
W. S. Quinby Company, Boston, Mass. Coffee	32,984	May 30	87	1603
W. T. Beesley & Company, Limited, Sheffield, England. Iron and steel and articles manufactured therefrom, except steel balls	33,173	June 27	87	2322
Wadsworth Salt Company, Wadsworth, Ohio. Salt	32,987	May 30	87	1604
Waggoner Gates Milling Company, Independence, Mo. Wheat-flour	32,952	May 23	87	1395
Wainwright, Walter, Newcomerstown, Ohio. Washing compounds	33,190	July 4	88	189
Waitt, Arthur M., Cleveland, Ohio. Liquid polishing compounds	33.005	May 30	87	1605
Walker, Cleon H., Corinth, Miss. Antiseptic	32,895	May 16	87	1232
Walker & Sons, R., Leicester, England. Knitted articles of clothing	33,411	Aug. 29	88	1700
Wallace, Robert G. (See McClure and Wallace.)				
Walpole, Frank O. L., London, England. Animal-wash	33,586	Oct. 17	89	518
Walter Baker & Company, Limited, Boston and Milton, Mass. Chocolate, broma, and cocoa preparations	33,740	Nov. 14	89	1339
Walter Baker & Company, Limited, Boston, and Milton, Mass. Powdered or breakfast cocoa	33,911	Dec. 19	89	2457
Walter M. Lowney Company, Boston, Mass. Bonbons	32,326	Jan. 3	86	179
Walter M. Lowney Company, Boston, Mass. Chocolate bonbons	32,607	Mar. 21	86	1980
Waltham Manufacturing Company, Waltham, Mass. Automobile vehicles	33,612	Oct. 17	89	520
Waltham Manufacturing Company, Waltham, Mass. Automobile vehicles	33,613	Oct. 17	89	520
Wapakoneta Wheel Company, Wapakoneta, Ohio. Vehicle-wheels and parts thereof	33.636	Oct. 24	89	704
Ward Co., Marcus, New York, N. Y. Writing-paper and envelops	32,921	May 23	87	1392
Ward Co., Marcus, New York, N. Y. Writing-paper and envelops	33,392	Aug. 22	88	1523
Ward-Mackey Company, Pittsburg, Pa. Certain named bakery products and confectionery	33,289	Aug. 1	88	943
Wardman & Behr, Memphis, Tenn. Certain named groceries	33.776	Nov. 21	89	1665
Wardroper, Annie, London, England. Abdominal bands	33,114	June 27	87	2316
Warner, Franklin B., New York, N. Y. Telescopes	33,728	Nov. 14	89	1337
Warren Boot and Shoe Company, Boston, Mass. Boots and shoes	33,118	June 27	87	2316
Warren, Charles C., Waterbury, Vt. Harness-makers' leather	33,119	June 27	87	2316
Warren Packing Company, Portland, Oreg., and New York, N. Y. Salmon	33,777	Nov. 21	89	1665
Washburn, Crosby Company, Minneapolis, Minn. Wheat breakfast-food	33,908	Dec. 19	89	2457
Washburn, Crosby Company, Minneapolis, Minn. Wheat breakfast-food	33,909	Dec. 19	89	2457
Waterwax Manufacturing Co., Port Huron, Mich. Waterproof leather-dressing	33,274	July 25	88	714
Watson, Porter, Giles & Co., New York, N. Y. Yarns, crochet and embroidery cottons	33,619	Oct. 24	89	702
Wattles & Son, G. M., Buffalo, N. Y. Butter	33,747	Nov. 14	89	1339
Webber, William, Launceston, Tasmania. Herbal medicine for a certain named disease	33,516	Oct. 3	89	187
Weber's Medical Tea Co., New York, N. Y. Remedy for purifying blood	32,730	Apr. 18	87	510
Wedgefuth, Louis C., New York, N. Y. Certain named poisons for animals	32,579	Mar. 7	86	1632
Wein Company "Kloster Ley," Cologne, Germany. Wines	33,373	Aug. 15	88	1330
Weinmann & Co., Philadelphia, Pa. Certain named articles of jewelry	33,284	Aug. 1	88	943
Wells, Albert A., Lafayette, Ind. Poultry-powder	33,889	Dec. 12	89	2258
Wells, Leonard H., Minneapolis, Minn. Proprietary medicines and toilet preparations	32,524	Feb. 21	86	1321
Wertheim, Joseph, Meerane, Germany. Remedies for bronchial affections	32,410	Jan. 24	86	628
Wertheimer, Maurice, New York, N. Y. Gloves	33,762	Nov. 21	89	1664
Wertheimer, Maurice, New York, N. Y. Gloves	33,900	Dec. 19	89	2457
Western Camera Manufacturing Company, Chicago, Ill. Photographic-printing paper	33,726	Nov. 14	89	1337
Western Oil and Asphalt Company, Los Angeles, Cal. Asphaltum	32,637	Mar. 28	86	2168
Weyman, Benjamin F., Pittsburg, Pa., and New York, N. Y. Smoking and chewing tobacco	32,436	Jan. 31	86	794
Wharton Company, Newark, N. J. Hat-finishers' labels	32,790	May 2	87	887
Wheeler, James, Ilfracombe, England. Filmed dressing, powders, and plasters	33,515	Oct. 3	89	187
Whelan, Mary C., Washington, D. C. Certain named toilet preparations	32,525	Feb. 21	86	1321
Whitcher & Co., Frank W., Boston, Mass. Rubber soles for boots and shoes	33,178	July 4	88	188
White & Co., J. G., Latah, Wash. Wheat-flour	33,042	June 6	87	1779
Whitehead & Son, W. A., Wilmington, N. C. Flour, meal, and peanuts	33,043	June 6	87	1779
Wiard Plow Company, Batavia, N. Y. Plows and their parts	32.461	Jan. 31	86	796
Wichman, Lutgen & Co., San Francisco, Cal. Whisky	32,357	Jan. 10	86	342
Wichman, Lutgen & Co., San Francisco, Cal. Whisky	32,741	Apr. 18	87	511
Wilbur & Sons, H. O., Philadelphia, Pa. Chocolate and cocoa	33,741	Nov. 14	89	1339
Wile Bros. & Weill, Buffalo, N. Y. Men's outer wearing-apparel	33,721	Nov. 14	89	1337
Wilkes, Alfred, Studley, England. Needles, fish-hooks, bodkins, crochet-hooks, and pins	33,620	Oct. 24	89	702
Wilkes, Alfred, Studley, England. Needles, fish-hooks, bodkins, crochet-hooks, and pins	33,621	Oct. 24	89	702
Wilkinson, Arthur W., Chicago, Ill. Certain named medicinal preparations	33,731	Nov. 14	89	1338
Willett & Haney, Dallas, Tex. Ice-cream	33,073	June 13	87	1956
William Fait Company, Baltimore, Md. Canned fruits and vegetables	32,988	May 30	87	1604
William Numsen & Sons, (Incorporated,) Baltimore, Md. Certain named canned goods	32,949	May 23	87	1395
William Paton, Limited, Johnstone, Scotland, and North Grafton, Mass. Laces for boots and shoes	33,057	June 13	87	1955
William Skinner Manufacturing Company, Holyoke and Boston, Mass.; New York, N. Y.; Chicago, Ill., and Philadelphia, Pa. Certain named fabrics	32,750	Apr. 25	87	691
Williams, James P., New York, N. Y. Electric motors	32,456	Jan. 31	86	796
Williams, Lydia A., Providence, R. I. Scented cream for certain named purposes	33,423	Aug. 29	88	1701
Williams, William H., Orange, N. J. Horseshoes	32,350	Jan. 10	86	341
Willis, Ernest J., New York, N. Y. Bicycles, their parts, and accessories	33,502	Sept. 26	88	2408
Wilson, James D., and W. T. Thompson, Lexington, Ky. Remedy for certain named diseases	33,143	June 27	87	2319
Wilson, John M., New York, N. Y. Chemical compounds for preventing smoke in furnaces	33,004	May 30	87	1605
Winchester Repeating Arms Company, New Haven, Conn. Paper-shell cartridges	32,713	Apr. 11	87	356
Winslow Bros. Company, Chicago, Ill. Certain named shelving	32,906	May 16	87	1233
Winslow Brothers Company, Chicago, Ill. Certain named shelving	33,195	July 4	88	190
Wisconsin Condensed Milk Company, Burlington, Wis. Condensed milk	33,267	July 25	88	713
Wisconsin Condensed Milk Company, Burlington, Wis. Condensed milk	33,268	July 25	88	713

Alphabetical list of registrants of trade-marks—Continued.

Name, residence, and title.	No.	Date.	Official Gazette.	
			Vol.	Page.
Witte & Danner, Buffalo, N. Y. Boots and shoes	33,020	June 6	87	1777
Wolfe, Joel B., New York, N. Y. Aromatic Schiedam schnapps	33,783	Nov. 21	89	1666
Wood & Co., Chas. F., New York, N. Y. Precious stones and semiprecious stones	33,807	Nov. 28	89	1858
Wood & Co., S. N., New York, N. Y. Certain named clothing	33,261	July 25	88	713
Wood & Co., Thomas, Boston, Mass. Coffee	32,383	Jan. 17	86	486
Woodman, Davis & Co., Boston, Mass Preparations for the mouth and teeth	32,702	Apr. 11	87	355
Woodmen Cigar Company, Lincoln, Nebr. Cigars	33,181	July 4	88	188
Woodward, Lyman J., Toronto, Canada. Cathartics and laxatives	32,564	Feb. 28	86	1496
Worcester Corset Company, Worcester, Mass. Certain named ladies' underwear	33,262	July 25	88	713
Worcester Corset Company, Worcester, Mass. Corsets	33,573	Oct. 17	89	516
Wortmann, Sadie L., Jersey City, N. J. Remedies for certain named diseases	33,542	Oct. 10	89	350
Wright, Firm of Alfred, Rochester, N. Y. Perfumery	32,720	Apr. 18	87	510
Wright & Greig, Limited, Glasgow, Scotland. Whisky	33,457	Sept. 12	88	2063
Wunderlich, Edward, New Orleans, La. Certain named medicinal compounds and articles	32,318	Jan. 3	86	179
Wylie Manufacturing Co., Saginaw, Mich. Certain named wearing-apparel	33,203	July 11	88	382
Ybor-Manrara Company, New York, N. Y., and Havana, Cuba. Cigars	32,478	Feb. 7	86	993
Yerxa, Frederick R., St. Paul, and W. A. Yerxa, Minneapolis Minn. Roasted coffee	33,269	July 25	88	713
Yerxa, Woodford A. (See Yerxa, Frederick R. and W. A.)				
Yeska, Joseph, New York, N. Y. Certain named men's clothing	33,495	Sept. 26	88	2408
Yohn Chemical Company of Baltimore City, Baltimore, Md. Medicine for certain named diseases	33,822	Nov. 28	89	1859
Young & Sons, Troy, N. Y., and Milford, N. H. Rough and cut granite	32,856	May 9	87	1072
Youngstown Steel Company, Youngstown, Ohio. Iron or steel in the form of rough blocks, slabs, or pigs	33,258	July 18	88	544
Zaegel, Max R., Sheboygan, Wis. Chemical and pharmaceutical remedies	33,543	Oct. 10	89	350
Zatarain, Emile A., New Orleans, La. Root-beer	33,265	July 25	88	713
Zenner-Raymond Disinfectant Company, Detroit, Mich. Certain named disinfectants	32,580	Mar. 7	86	1632
Zook, Henry S., Blue Rock, Pa. Fertilizers	33,225	July 11	88	384
Zurcher, Otto, Shettlewood, Jamaica. Cigars, cigarettes, and cheroots	33,325	Aug. 8	88	1154

ALPHABETICAL LIST OF REGISTRANTS OF LABELS.

Name, residence, and title.	No.	Date.	Official Gazette. Volume.	Page.
Abbey Effervescent Salt Company, New York, N. Y. "Abbey's Effervescent Salt." (For a Medicine)	7,145	Oct. 3	89	1
Abbey Effervescent Salt Company, New York, N. Y. "Abbey's Effervescent Salt." (For a Medicine)	7,146	Oct. 3	89	1
Abbey Effervescent Salt Company, New York, N. Y. "Abbey's Effervescent Salt." (For a Medicine)	7,147	Oct. 3	89	1
Abbey Effervescent Salt Company, New York, N. Y. "Abbey's Effervescent Salt." (For a Medicine)	7,148	Oct. 3	89	1
Abbey Effervescent Salt Company, New York, N. Y. "Abbey's Effervescent Salt." (For a Medicine)	7,149	Oct. 3	89	1
Abbey Effervescent Salt Company, New York, N. Y. "Abbey's Effervescent Salt." (For a Medicine)	7,150	Oct. 3	89	1
Abner & Drury, Washington, D. C. "Old Glory." (For Beer)	7,163	Oct. 10	89	193
Acker & Co., Finley, Philadelphia, Pa. "No. 1 Mocha Java Blend." (For Coffee)	7,131	Sept. 12	88	1901
Acker & Co., Finley, Philadelphia, Pa. "No. 2 Mocha Java Blend." (For Coffee)	7,132	Sept. 12	88	1901
Acker & Co., Finley, Philadelphia, Pa. "No. 3 Mocha Java Blend." (For Coffee)	7,133	Sept. 12	88	1901
Acker & Co., Finley, Philadelphia, Pa. "No. 4 Mocha Java Blend." (For Coffee)	7,134	Sept. 12	88	1901
Acker & Co., Finley, Philadelphia, Pa. "Mo-Kof-Fee." (For Coffee)	7,189	Oct. 31	89	709
Adam Scheidt Brewing Company, Norristown, Pa. "Standard Lager Beer." (For Bottled Beer)	6,888	Apr. 18	87	361
Adrian, George S., New York, N. Y. "Ulika Adrian's Hand Picked Roasted Coffee." (For Coffee)	7,120	Sept. 5	88	1707
Aims, William D. P., Jr., Philadelphia, Pa. "Aims' Antiseptic Lotions." (For Lotions)	6,884	Apr. 18	87	361
Akin Erskine Milling Co., Evansville, Ind. "Roxane Pure Wheat Flour." (For Flour)	6,789	Jan. 31	86	635
Albertson, Otto G., Poughkeepsie, N. Y. "Chief Rheumatism Cure." (For a Medicine)	6,867	Apr. 4	87	1
Albion Co., Cincinnati, Ohio. "Fairy Powders." (For a Toilet Powder)	6,975	June 20	87	1963
Alder, Frederick T., New York, N. Y. "Porto Rico Bitters." (For Medicinal Bitters)	6,929	May 16	87	1079
Allaband, Edgar R., Wilmington, Del. "Allaband's Anodyne Expectorant." (For a Cough Cure)	6,939	May 23	87	1241
Allen, Paul, and L. Blake, New York, N. Y. "Adirondack Spring Water." (For Natural Spring-Water)	7,195	Nov. 7	89	923
Allen, Mark W., Detroit, Mich. "Parfumerie Monte Carlo Hair Tonic." (For a Hair-Tonic)	6,872	Apr. 11	87	183
American Food Company, New York, N. Y. "Consomme." (For Soups)	7,166	Oct. 10	89	193
American Lithographic Company, New York, N. Y. "La Dulzura." (For Cigars)	6,804	Feb. 7	86	801
American Lithographic Company, New York, N. Y. "La Dulzura." (For Cigars)	6,805	Feb. 7	86	801
American Lithographic Company, New York, N. Y. "La Flor de la Vuelta." (For Cigars)	6,806	Feb. 7	86	801
American Lithographic Company, New York, N. Y. "La Flor de la Vuelta." (For Cigars)	6,807	Feb. 7	86	801
American Lithographic Company, New York, N. Y. "Three Republics." (For Cigars)	6,813	Feb. 14	86	999
American Lithographic Company, New York, N. Y. "Air of Freedom." (For Cigars)	6,838	Mar. 7	86	1501
American Lithographic Company, New York, N. Y. "Crown Leaf." (For Cigars)	6,839	Mar. 7	86	1501
American Lithographic Company, New York, N. Y. "Victoridad." (For Cigars)	6,844	Mar. 14	86	1637
American Lithographic Company, New York, N. Y. "For Luck." (For Cigars)	6,914	May 9	87	897
American Lithographic Company, New York, N. Y. "La Dalia." (For Cigars)	6,946	May 30	87	1403
American Lithographic Company, New York, N. Y. "The Medal." (For Cigars)	6,978	June 27	87	2123
American Lithographic Company, New York, N. Y. "El Regalo." (For Cigars)	7,063	Aug. 1	88	719
American Lithographic Company, New York, N. Y. "El Regalo." (For Cigars)	7,064	Aug. 1	88	719
American Lithographic Company, New York, N. Y. "La Benita." (For Cigars)	7,076	Aug. 8	88	949
American Lithographic Company, New York, N. Y. "Polar Queen." (For Cigars)	7,085	Aug. 15	88	1163
American Lithographic Company, New York, N. Y. "Rose Bouquet." (For Cigars)	7,137	Sept. 26	88	2245
American Lithographic Company, New York, N. Y. "Our Red Poppy." (For Cigars)	7,138	Sept. 26	88	2245
American Lithographic Company, New York, N. Y. "La Autoridad." (For Cigars)	7,198	Nov. 7	89	923
American Lithographic Company, New York, N. Y. "Fragrant Leaf." (For Cigars)	7,199	Nov. 7	89	923
American Lithographic Company, New York, N. Y. "La Agricultura." (For Cigars)	7,200	Nov. 14	89	1145
American Lithographic Company, New York, N. Y. "Paz de Oro." (For Cigars)	7,211	Nov. 28	89	1673
American Lithographic Company, New York, N. Y. "Paz De Oro." (For Cigars)	7,262	Dec. 26	89	2467
American Sauce Co., Chicago, Ill. "American Brown Sauce." (For a Table-Sauce)	6,864	Apr. 4	87	1
Anderson, William, New York, N. Y. "Anderson's Cream Flakes"	6,791	Jan. 31	86	635
Andrews, Reuben H., Washington, D. C. "Washed." (For Mutton Suet or Tallow)	6,764	Jan. 3	86	1
Applegate Indelible Ink Co., Chicago, Ill. "Applegate's Indelible Ink." (For Ink)	7,126	Sept. 12	88	1901
Armstrong Furniture Polish Company, Evansville, Ind. "Armstrong's Furniture Polish." (For a Furniture-Polish)	6,829	Feb. 21	86	1179
Atlantic Peanut Refinery, Philadelphia, Pa. "Peanut Butter." (For a Nut Food)	6,853	Mar. 28	86	1987
Atwood, H. P., Galesburg, Ill. "Atwood's Single Binder." (For Cigars)	7,263	Dec. 26	89	2467
Backofen, Henry W., San José, Cal. "Dr. Bee's Blood Purifier." (For a Medicine)	7,010	July 11	88	195
Badger Canning Company, Oshkosh, Wis. "Arion." (For Canned Goods)	7,156	Oct. 3	89	1
Bailey Remedy Co., Reading, Pa. "Dr. Bailey's Catarrh Cure." (For a Catarrh Cure)	6,954	June 6	87	1613
Baird Bros. & Co., Cleveland, Ohio. "Monarch 'Stag Head' Polish." (For a Furniture-Polish)	6,974	June 20	87	1963
Baker, Charles E., Des Moines, Iowa. "Ozone." (For a Medicine)	7,230	Dec. 12	89	2071
Barber, Ida H., Cleveland, Ohio. "The B and P Wrinkle Eradicator." (For Wrinkle-Eradicators)	7,203	Nov. 14	89	1145
Barwell, John W., Waukegan, Ill. "Fill the Basket." (For Egg Food)	6,823	Feb. 21	86	1179
Bay State Improved Box Company, Chelsea, Mass. "Sweets." (For Confectionery)	7,235	Dec. 12	89	2071
Bean & Co., W. G., Detroit, Mich. "Dr. Bean's Guaranteed Toothache Cure." (For a Medical Compound)	6,956	June 6	87	1613
Beckham, W. E., Atlanta, Ga. "Wurtzburger Malt Extract." (For Malt Extract)	6,826	Feb. 21	86	1179
Bednarek, Thomas, Chicago, Ill. "Febrol." (For a Medicine)	6,794	Jan. 31	86	635
Beers & Co., H. H., Elkhart, Ind. "Eclipse Hog and Poultry Cholera Preventative." (For a Medicine)	7,152	Oct. 3	89	1
Behr, Sarah, Toledo, Ohio. "Centennial City Pure Rye Whiskey." (For Bottled Whisky)	6,904	May 2	87	701
Belmont Baking Powder Co., Boston, Mass. "Belmont." (For Baking-Powder)	7,069	Aug. 1	88	719
Bengué, Jules, Paris, France. "Baume Analgésique Bengué." (For a Cure for Rheumatism, Gout, and Neuralgia)	6,855	Mar. 28	86	1987
Bereolos, James P., Chicago, Ill. "New Peanut Geack." (For a Peanut Confection)	7,119	Sept. 5	88	1707
Berg, Charles T., Baltimore, Md. "Berg's High Grade Bread." (For Bread)	7,153	Oct. 3	89	1
Biele, Charles, New York, N. Y. "Café Savoy." (For Canned Coffee)	7,046	July 25	88	549
Biglow & Main Company, New York, N. Y. "Phonograph Record." (For Phonograph-Records)	7,182	Oct. 17	89	357

Alphabetical list of registrants of labels—Continued.

Name, residence, and title.	No.	Date.	Official Gazette. Vol.	Page.
Bixby, Samuel M., New York, N. Y. "Tan Oil Polish." (For Shoe-Polish)	6,842	Mar. 7	86	1501
Bixby, Samuel M., New York, N. Y. "Jet Oil." (For Shoe-Blacking)	6,925	May 16	87	1079
Bixby, Samuel M., New York, N. Y. "Jet Oil." (For Shoe-Blacking)	6,926	May 16	87	1079
Blake, Luke. (See Allen and Blake.)				
Blaydes, R. O., Hot Springs, Ark. "Lady Eve's Face Powder." (For Face-Powder)	7,129	Sept. 12	88	1901
Bloomer, Robert, Chicago, Ill. "Edelweiss Rocky Mountain Herbs Breast Tea." (For an Herb Compound)	6,905	May 2	87	701
Bolger, S. A., New York, N. Y. "Oil of Life." (For a Liniment)	6,966	June 13	87	1787
Boston Filter Company, New York, N. Y. "Purified Water." (For Drinking-Water)	6,993	July 4	88	1
Boston Filter Company, New York, N. Y. "Perfect Drinking Water." (For Drinking-Water)	6,994	July 4	88	1
Bouillon-Stock Manufacturing Company, Chicago, Ill. "Extract of Plasma." (For an Extract)	6,989	June 27	87	2123
Bowen's Sons, S., Philadelphia, Pa. "Pecora Asbestos Furnace Cement." (For Cement)	7,100	Aug. 22	88	1337
Boynton, H. L., San José, Cal. "Maple Leaf Hair Grower." (For a Hair Remedy)	6,936	May 23	87	1241
Bradbury, Robert F., Washington, D. C. "Uncle Sam's Button Shine." (For a Cleaning and Polishing Preparation)	6,830	Feb. 21	86	1179
Bradford, James T., and R. J. Lindsay, Amsterdam, N. Y. "Dager's Indian Ointment." (For an Ointment)	6,848	Mar. 21	86	1807
Breck & Sons, Joseph, Boston, Mass. "Old Homestead." (For Popcorn)	7,176	Oct. 17	89	357
Brilliantine Manufacturing Co., Avonmore, Pa. "Brilliantine." (For Stove-Polish)	7,186	Oct. 24	89	525
Brown & Co., E. P., Prophetstown, Ill. "Brown's Hand Lotion." (For a Lotion)	7,052	Aug. 1	88	719
Bryan Bros., Wichita, Kans. "Our Season Ticket." (For Cigars)	6,979	June 27	87	2123
Buckeye Fish Company, Cleveland, Ohio. "Lake Ciscoes." (For Canned Fish)	7,105	Aug. 29	88	1529
Bulger, H. H., Brownsville, Pa. "L. A. W. Headache Cure." (For a Medicine)	6,955	June 6	87	1613
Burk & Co., Lou, Bloomington, Ill. "Burk's Dyspepsia Cure." (For a Medicine)	6,977	June 20	87	1963
Buttfield, W. J., New York. N. Y. "Emperor." (For Flour-Bags)	6,779	Jan. 17	86	349
Callahan & Sons, Louisville, Ky. "White Plume Patent Flour." (For Flour)	7,193	Nov. 7	89	923
Cannon, Cargill D., Omaha, Nebr. "Pierre Viau's Pure Sap Maple Syrup." (For Maple-Syrup)	7,109	Aug. 29	88	1529
Capera Bottling Co., Fort Worth, Tex. "Iron-Brou." (For Soft Carbonated Drinks)	6,767	Jan. 3	86	1
Carbutt, John, Philadelphia, Pa. "Vivax." (For Photographic Paper)	6,893	Apr. 25	87	519
Castalia Portland Cement Company, Pittsburg, Pa. "Tiger Brand." (For Portland Cement)	6,953	June 6	87	1613
Catton, Bell & Co., San Francisco, Cal. "Anglo-Saxon Brand Peaches." (For Canned Goods)	6,765	Jan. 3	86	1
Cawley, Clark & Company, Newark, N. J. "Urban and Suburban Mixed Paint." (For Mixed Paint)	6,951	June 6	87	1613
Cawley, Clark & Company, Newark, N. J. "Adirondack Green." (For Chrome Green in Oil)	6,952	June 6	87	1613
Century Chemical Company, New York, N. Y. "Post Haste." (For Toilet Powder)	7,053	Aug. 1	88	719
Charles E. Hires Company, Philadelphia, Pa. "Jersey Dairies." (For Condensed Milk)	6,902	May 2	87	701
Charles E. Hires Company, Philadelphia, Pa. "Morro Castle." (For Condensed Milk)	6,903	May 2	87	701
Charles E. Hires Company, Philadelphia, Pa. "Blue Ribbon." (For Condensed Milk)	6,911	May 9	87	897
Charles E. Hires Company, Philadelphia, Pa. "Banquet Condensed Milk." (For Condensed Milk)	6,912	May 9	87	897
Charles E. Hires Company, Philadelphia, Pa. "Philadelphia." (For Condensed Milk)	6,995	July 4	88	1
Charles E. Hires Company, Philadelphia, Pa. "White House." (For Condensed Cream)	7,072	Aug. 1	88	719
Charles E. Hires Company, Philadelphia, Pa. "Premium." (For Condensed Milk)	7,073	Aug. 1	88	719
Charles E. Hires Company, Philadelphia, Pa. "Old Homestead." (For Condensed Milk)	7,074	Aug. 1	88	719
Charles W. Huff Company, Pittsburg, Pa. "Cassia Fagots." (For Cassia-Bark)	7,065	Aug. 1	88	719
Chicago Wood Finishing Company, Chicago, Ill. "Yankee House Cleaner." (For a Cleaning Preparation)	7,099	Aug. 22	88	1337
Chicago Wood Finishing Company, Chicago, Ill. "Yankee Cleaner." (For a Cleaning Compound)	7,194	Nov. 7	89	923
Christian Moerlein Brewing Company, Cincinnati, Ohio. "Bavarian Doppel." (For Beer)	7,057	Aug. 1	88	719
Christian Moerlein Brewing Company, Cincinnati, Ohio. "Moerlein." (For Beer)	7,058	Aug. 1	88	719
Christian Moerlein Brewing Company, Cincinnati, Ohio. "Culmbacher." (For Beer)	7,059	Aug. 1	88	719
Christian Moerlein Brewing Company, Cincinnati, Ohio. "Extra Pale." (For Beer)	7,060	Aug. 1	88	719
Christian Moerlein Brewing Company, Cincinnati, Ohio. "Regular." (For Beer)	7,061	Aug. 1	88	719
Christian Moerlein Brewing Company, Cincinnati, Ohio. "National Export." (For Beer)	7,062	Aug. 1	88	719
Clark, Samuel B., New York, N. Y. "Clark's Educational School Biscuit." (For Biscuits or Crackers)	6,910	May 9	87	897
Clarke, Randolph K., Boston, Mass. "The Ketchum Pants Label." (For Trousers or Pants)	7,122	Sept. 12	88	1901
Clinton Soap Company, Clinton, Iowa. "Whitar." (For Soap)	7,091	Aug. 15	88	1163
Clough, Ellen M., Chicago, Ill. "Original Old Homestead." (For Pudding-Sauce)	7,136	Sept. 19	88	2069
Coates Co., Norwich, Conn. "Non Gummable Mucilage Bottle." (For Mucilage-Bottles)	6,833	Feb. 28	86	1327
Consolidated Safety Pin Company, Bloomfield, N. J. "Guarded Spring." (For Safety-Pins)	6,761	Jan. 3	86	1
Cooper, Gabriel F., Toledo, Ohio. "Ohio Centennial Cigar." (For Cigars)	6,930	May 16	87	1079
Cox, William H., Winterset, Iowa. "Scarless Liniment." (For a Liniment)	6,885	Apr. 18	87	361
Craffey, Michael, Denver, Colo. "Domestic." (For Brooms)	6,999	July 4	88	1
Crane Extract Co., Dayton, Ohio. "Crane's Best Flavoring Extracts." (For Flavoring Extracts)	7,154	Oct. 3	89	1
Crosby, Edward A., Minneapolis, Minn. "Magic Square Digital Puzzle." (For Puzzles)	7,261	Dec. 26	89	2467
Crozer & Son, Samuel A., Upland, Pa. "Bengal." (For Cotton Goods)	7,084	Aug. 15	88	1163
Cummings, Theodore J., Kansas City, Kans. "Herbal-tea-na." (For a Medicine)	7,093	Aug. 15	88	1163
Cunningham & Co., London, England, and New York, N. Y. "Red Lion." (For Gin)	6,984	June 27	87	2123
Curley & Co., W. Clarence, Baltimore, Md. "Komback." (For Cigars)	7,077	Aug. 8	88	949
Curtis, Ben K., Jersey City, N. J. "Irondale Spring Water." (For Bottles of Mineral-Spring Water)	6,768	Jan. 3	86	1
Dare & Son, Chas. F., Bridgeton, N. J. "Dare's Elixir Mentha Pepsin." (For a Remedy for Certain Named Diseases)	6,827	Feb. 21	86	1179
Dare & Son, Chas. F., Bridgeton, N. J. "Dare's Elixir Mentha Pepsin." (For a Remedy for Certain Named Diseases)	6,828	Feb. 21	86	1179
Dashiell, William C. (See Whaley and Dashiell.)				
Davenport, Daniel F., Americus, Ga. "Quinoliv." (For a Medical Compound)	6,846	Mar. 14	86	1637
Davidson Fruit Company, Hood River, Oreg. "Hood River Fruit." (For Canned Fruit)	7,205	Nov. 21	89	1345
Davis, Edith A., New York, N. Y. "Aunt Edith's Liniment." (For a Liniment)	6,959	June 6	87	1613
Day, Fannie L., Kansas City, Mo. "Vin D'Ecorces." (For a Tonic)	7,180	Oct. 17	89	357
Dayton Spice Mills Company, Dayton, Ohio. "Dutch Java Blend Coffee." (For Coffee)	6,824	Feb. 21	86	1179
Decker, Henry S., New York, N. Y. "Leila Kanum Co., Cleopatra's Charm." (For a Cosmetic)	6,908	May 2	87	701
Delafield, McGovern & Co., New York, N. Y. "Blue Jacket Brand." (For Canned Salmon)	6,852	Mar. 28	86	1987
Delafield, McGovern & Co., New York, N. Y. "Arrow Brand." (For Canned Salmon)	7,202	Nov. 14	89	1145
Diamond Willow Hair Grower Co., Plainfield, N. J. "Diamond Willow Quick and Sure Hair Grower." (For a Hair-Tonic)	6,976	June 20	87	1963
Dieter & Sauer, El Paso, Tex. "Imperial Sour Mash Whiskey." (For Whisky)	7,240	Dec. 19	89	2263
Donahue Co., T. F., Providence, R. I. "Narragansett Pure Rye Whiskey." (For Whisky)	7,207	Nov. 21	89	1345
Dr. Hussey Medicine Co., Toledo, Ohio. "The Dr. Hussey Diphtheria and Family Remedy." (For Medicine)	6,777	Jan. 10	86	185
Du Bois Brewing Company, Du Bois, Pa. "Kraft's Temperantia." (For a Beverage)	7,014	July 11	88	195
Dustin, S. Brittana, Utica, N. Y. "Mighill Dustin's 99 Celebrated Ointment or Salve, Mrs. S. B. Dustin, Sole Proprietress." (For an Ointment)	6,836	Feb. 28	86	1327
E. S. Burnham Company, New York, N. Y. "Burnham's Cream Custard." (For a Food Preparation)	6,950	June 6	87	1613

Alphabetical list of registrants of labels—Continued.

Name, residence, and title.	No.	Date.	Official Gazette. Vol.	Page.
Eckert, Charles V., St. Louis, Mo. "Sure Death." (For Insect-Paste)	6,960	June 6	87	1613
Edw. Malley Company, New Haven, Conn. "Ye Colonial Papers." (For Writing-Paper)	7,237	Dec. 19	89	2263
Eggleston, Clark M., New York, N. Y. "Tincal-Tanilid with Formaldehyd." (For Surgical Dressing)	6,886	Apr. 18	87	361
Eggleston, Clark M., New York, N. Y. "Formaldic Soap." (For a Soap)	6,887	Apr. 18	87	361
Eickershoff, John H., Cincinnati, Ohio. "U-Tel-U." (For a Game)	7,183	Oct. 24	89	525
Elmira Cotton Mills Company, Burlington, N. C. "Climax Dress Plaids." (For Dress Goods)	7,123	Sept. 12	88	1901
Ely Medicine Company, South Whitley, Ind. "Ely's Cin-Cho Tonic." (For Medicine)	6,906	May 2	87	701
Ensminger & Fling, Marion, Ohio. "The Marion Hog and Poultry Cholera Cure and Preventive." (For Cholera Cure for Hogs and Poultry)	6,814	Feb. 14	86	999
Essenic Manufacturing Co., Plainfield, N. J. "Essenic." (For a Salve or Ointment)	6,786	Jan. 24	86	493
Everett, Samuel H., New York, N. Y. "Green Turtle Soup." (For Soup)	6,772	Jan. 10	86	185
F. W. Devoe & C. T. Raynolds Company, New York, N. Y. "Pure Lead and Zinc Paint Ready for Use." (For Paints and Paint Compounds)	6,812	Feb. 7	86	801
Falck, Adolph, New York, N. Y. "The Kossuth Bitterwater." (For Bitterwater)	6,784	Jan. 24	86	493
Faure, M., Los Angeles, Cal. "The Independence." (For a Cordial or Tonic)	7,056	Aug. 1	88	719
Ferd Heim Brewing Company, Kansas City, Mo. "Hedderman's Cream Beer." (For Bottled Beer)	7,015	July 11	88	195
Ferrill & Co., Boone, Iowa. "H. F.'s Hair Renewer." (For a Hair-Renewer)	7,179	Oct. 17	89	357
Fette, Carl, Jamestown, N. Y. "Pan-American Exposition." (For Cigars)	7,078	Aug. 8	88	949
Finley, Charles H., Davenport, Iowa. "Finley's Ginseng." (For a Medicine)	6,919	May 9	87	897
Flame-Proof Company, Jersey City, N. J., and New York, N. Y. "Flame-Proof Starch." (For Starch)	7,187	Oct. 31	89	709
Fleishman, Morris & Co., Richmond, Va. "Old Virginia." (For Shoes)	6,762	Jan. 3	86	1
Forbush, George, Peterborough, N. H. "Forbush's Headache Powders." (For Headache-Powders)	6,785	Jan. 24	86	493
Frank & Son, John, Newark, N. J. "The New Library." (For Cigars)	7,013	July 11	88	195
Frantz, Theodore, Louisville, Ky. "Dr. Frantz' Cream Quick Yeast." (For Baking-Powder)	6,965	June 13	87	1787
Gannon, J. C., Boston, Mass. "Swan Brand." (For Canned Clams)	7,188	Oct. 31	89	709
Gardner, William W., Syracuse, N. Y. "Roachine." (For Insect-Powder)	7,216	Nov. 28	89	1673
Gebhard, John, Red Lion, Pa. "Gebhard's Red Lion Cigar." (For Cigars)	6,808	Feb. 7	86	801
Gettier, George W. and J. C., Baltimore, Md. "'G. and G.' Cleaner and Polisher." (For a Cleansing and Polishing Powder)	6,924	May 16	87	1079
Gettier, John C. (See Gettier, George W. and J. C.)				
Gobel, W. H., Findlay, Ohio. "Gobel's Rose Bud Gum." (For Chewing-Gum)	6,949	June 6	87	1613
Godoy, Francis J., New York, N. Y. "Capsule Bluing." (For Bluing)	7,177	Oct. 17	89	357
Goodsell, Willard, Westfield, N. J. "Healio." (For a Salve)	7,074	Aug. 15	88	1163
Gray Lithograph Co., New York, N. Y. "Iler's Sparkling Beer." (For Beer)	6,971	June 20	87	1963
Gray Lithograph Co., New York, N. Y. "Abdallah." (For Cigarettes)	7,095	Aug. 22	88	1337
Great Western Yeast Company, Portland, Oreg. "Great Western." (For Yeast-Cakes)	6,895	Apr. 25	87	519
Green, Seymour, Saginaw, Mich. "S. Green's Compound." (For a Medicine)	7,112	Sept. 5	88	1707
Greenleaf, W. E., Monmouth, Ill. "Greenleaf's Smoker." (For Cigars)	7,020	July 18	88	389
Greenlee, George W., Clarington, Ohio. "Silver Ash." (For Stogies)	7,159	Oct. 10	89	193
Grossas & Co., George, Jersey City, N. J. "Egyptian Water Nymphs." (For Cigarettes)	7,212	Nov. 28	89	1673
Gruenhut, Morris L., Atchison, Kans. "Albuma." (For a Preparation for Making Beverages)	7,190	Oct. 31	89	709
Guernsey, William J., Philadelphia, Pa. "Perfection Liquid Food." (For a Preparation of Milk, Beef, &c.)	6,766	Jan. 3	86	1
Guilmard, H., New York, N. Y. "Eau Sublime." (For Hair-Coloring)	7,204	Nov. 14	89	1145
Guiltman, Frank, New Milford, Pa. "Everlasting Preservative for Eggs." (For a Preservative)	7,227	Dec. 5	89	1865
Gulden, Charles, New York, N. Y. "Queen Olives." (For Olives)	6,932	May 16	87	1079
H. Hackfeld & Company, Limited, Honolulu, Hawaii. "Kona Coffee." (For Coffee)	6,845	Mar. 14	86	1637
H. Piper Company, Chicago, Ill. "Ladies Hard Tack." (For Hardtack)	6,831	Feb. 28	86	1327
H. Piper Company, Chicago, Ill. "Ladies Hard Tack." (For Packages of Glazed or Frosted Cakes or Wafers)	6,970	June 20	87	1963
Hackley, William L., Kenosha, Wis. "One Night Cough Cure." (For a Cough Medicine)	6,795	Jan. 31	86	635
Hackley, William L., Kenosha, Wis. "Hackley's Twelve Hour Cough Cure." (For a Cough Medicine)	6,870	Apr. 11	87	183
Hafner, Charles, New York, N. Y. "Deer Head Rheumatism Destroyer." (For a Medicine)	6,918	May 9	87	897
Hahn, William, Washington, D. C. "Wi-mo-dau-sis." (For Shoes)	6,800	Feb. 7	86	801
Hall, W. F., Statesville, N. C. "Quinacetol." (For a Medicine)	6,928	May 16	87	1079
Hamburger & Co., Joe, Cincinnati, Ohio. "The Jester." (For Cigars)	6,894	Apr. 25	87	519
Hammond, Benjamin, Fishkill-on-the-Hudson, N. Y. "Hammond's Cattle Comfort." (For a Veterinary Preparation)	6,856	Mar. 28	86	1987
Hand, David B., Scranton, Pa. "Dr. Hand's Condensed Milk with Phosphates and Hypophosphites Added." (For Condensed Milk)	7,047	July 25	88	549
Hanlon, John J., Norwalk, Conn. "Cremo." (For Baking-Powder)	7,106	Aug. 29	88	1529
Harrell, Charles L., Woodbridge, N. J. "Delicious Peptonized Cream Cheese." (For Cheese)	6,783	Jan. 24	86	493
Harrington, Elmer C., Los Angeles, Cal. "Lemoline Cream." (For a Preparation for the Skin)	6,938	May 23	87	1241
Hasse, William C., and P. Lauth, Jr., Chicago, Ill. "Sav-Nol." (For an Ointment)	6,819	Feb. 14	86	999
Henry Drug Co., Louisville, Ky. "Pluto Concentrated." (For Bottled Mineral Water)	7,232	Dec. 12	89	2071
Hill & Locke, Augusta, Me. "Hobson's Kisses." (For Molasses Candy)	6,931	May 16	87	1079
Hinrichs, Henry, Manitowoc, Wis. "The Health Drink No-Skee." (For Medical Compounds)	6,775	Jan. 10	86	185
Hinrichs, Henry, Manitowoc, Wis. "Skee-Nit." (For a Non-Intoxicating Drink)	6,817	Feb. 14	86	999
Hockmeyer Bro., New York, N. Y. "H. B. Brand." (For Velveteen Skirt-Binding)	7,019	July 18	88	389
Holden, Charles N., Chicago, Ill. "La France." (For Peas)	7,157	Oct. 3	89	1
Holden, Charles N., Chicago, Ill. "Sugar Drop." (For Peas)	7,158	Oct. 3	89	1
Hollingshead, Richard M., Camden, N. J. "Hollingshead's Castor Axle Oil." (For Axle-Oil)	6,874	Apr. 11	87	183
Hulman & Co., Terre Haute, Ind. "Sour Milk Baking Powder." (For Baking-Powder)	6,780	Jan. 17	86	349
J. W. James Company, East Brady, Pa. "Dr. James' Miniature Headache Powders." (For Headache-Powders)	6,907	May 2	87	701
Jackson Bros., Oakland, Cal. "Jackson's Jersey Balm." (For a Toilet Article)	6,985	June 27	87	2123
Jackson & Co., H. T., New York, N. Y. "Sarsaferine." (For a Beverage)	6,933	May 23	87	1241
Jaeck Bros. Company, New York, N. Y. "Acidtine." (For a Protective Compound)	7,012	July 11	88	195
Jaeck Freres, Z. C., New York, N. Y. "Ferro Plasteroide." (For a Liquid Filler)	7,128	Sept. 12	88	1901
Jaques, Frank F., Chicago, Ill. "Belle of Japan." (For Tea)	6,773	Jan. 10	86	185
Jaques, Frank F., Chicago, Ill. "Emblem Chop." (For Tea)	6,774	Jan. 10	86	185
Jaques Manufacturing Co., Chicago, Ill. "U C Baking Powder." (For Baking-Powder)	7,070	Aug. 1	88	719
Jaques Manufacturing Co., Chicago, Ill. "I C Baking Powder." (For Baking-Powder)	7,071	Aug. 1	88	719
Jas. S. Mason Company, Philadelphia, Pa. "Mason's Challenge Paste Stove Polish." (For Stove-Polish)	7,228	Dec. 5	89	1865
Jas. S. Mason Company, Philadelphia, Pa. "Mason's Challenge Combination Russet Cleaner." (For a Compound for Cleaning Russet Leather)	7,268	Dec. 26	89	2467
Jas. S. Mason Company, Philadelphia, Pa. "Mason's Challenge Combination Russet Cleaner and Polish." (For a Compound for Cleaning and Polishing Russet Leather)	7,269	Dec. 26	89	2467
Jas. S. Mason Company, Philadelphia, Pa. "Mason's Challenge Black Dressing." (For a Compound for Dressing Leather)	7,270	Dec. 26	89	2467

Alphabetical list of registrants of labels—Continued.

Name, residence, and title.	No.	Date.	Official Gazette. Vol.	Page.
Jas. S. Mason Company, Philadelphia, Pa. "Mason's Challenge Black Dressing." (For a Compound for Dressing Leather)	7,271	Dec. 26	89	2467
Johnson, Titian W., Washington, D. C. "Persperine." (For Toilet Powder)	6,944	May 30	87	1403
Jolly, John S., Indianapolis, Ind. "High Life." (For a Tonic)	7,239	Dec. 19	89	2263
Joseph Fallert Brewing Company, New York, N. Y. "Superb." (For Bottled Beer)	7,164	Oct. 10	89	193
Joseph Fallert Brewing Company, New York, N. Y. "Alt-Bayerisch." (For Bottled Beer)	7,165	Oct. 10	89	193
Kade, Charles F. and O. C., Sheboygan, Wis. "Filippino Solitaire." (For a Game)	6,851	Mar. 28	86	1987
Kade, Otto C. (See Kade, Charles F. and O. C.)				
Keasbey & Barnekov, Perth Amboy, N. J. "Aunt Susan's Old Fashioned Wild Cherry Cough Syrup." (For Cough-Syrups)	6,940	May 23	87	1241
Kern & Sons, John B. A., Milwaukee, Wis. "Success." (For Breakfast-Oats)	7,030	July 18	88	389
Keske Bros., Cleveland, Ohio. "Sure Cure Salve." (For a Salve)	6,909	May 2	87	701
Khasan & Rosensweig, New York, N. Y. "Khasan's & Rosensweig's Lung and Asthma Healer." (For a Medicine)	6,927	May 16	87	1079
Khasan & Rosensweig, New York, N. Y. "Khasan's & Rosensweig's Emulsio Hypophosphatis Creosoti Comp." (For a Medical Compound)	6,958	June 6	87	1613
Kiefer, Julius G., Kansas City, Mo. "Cleopatra's Secret." (For a Medicine)	6,941	May 23	87	1241
Knowles-Lombard Company, Guilford, Conn. "Puritan Tomatoes." (For Canned Goods)	7,169	Oct. 17	89	357
Knowlton, Arthur H., Concord, N. H. "Clarke's Celery Phosphate." (For a Nerve-Tonic)	7,097	Aug. 22	88	1337
Kofal, John, Newark, N. J. "Antiseptic." (For a Sanitary Antiseptic)	7,096	Aug. 22	88	1337
Krementz & Co., Newark, N. J. "The Krementz, 'One Piece.'" (For Collar and Cuff Buttons)	6,771	Jan. 10	86	185
Kron, John L., Kittanning, Pa. "Nox-Em-All Ointment." (For an Ointment)	6,873	Apr. 11	87	183
Kuehn, Frederick C., Watertown, Wis. "Black Eagle." (For Cheese)	6,816	Feb. 14	86	999
Kupferberg & Co., Chr. Adt, Mentz, Germany. "Kupferberg Gold." (For Beverages)	7,140	Sept. 26	88	2245
L. A. Schaeffer & Company, Dayton, Ohio. "Benedict." (For Cigars, Cheroots, and Cigarettes)	6,948	June 6	87	1613
Lansing, J. W., Buffalo, N. Y. "Equity." (For Rolls of Butter)	7,108	Aug. 29	88	1529
Larcieri, Giuseppi, Philadelphia, Pa. "Larcieri's Great Horse Medicine." (For Horse Medicine)	6,998	July 4	88	1
Latta, Eugene S., Cleveland, Ohio. "Kreso-Napthol." (For a Disinfectant)	7,118	Sept. 5	88	1707
Lauth, Philip, Jr. (See Hasse and Lauth.)				
Law, David H., Sr., Dixon, Ill. "Anti-Bromodrosis." (For a Toilet Powder)	7,143	Sept. 26	88	2245
Laxa Medicine Co., Newark, Ohio. "Laxa." (For a Medical Compound)	6,987	June 27	87	2123
Lee Broom and Duster Company, Davenport, Iowa, and Lincoln, Nebr. "Little Midget." (For Brooms)	7,000	July 4	88	1
Legate, John J., Farmington, Ky. "Cough and Lung Balsam." (For a Medicine)	7,113	Sept. 5	88	1707
Leon C. Magaw Cheese Company, Meadville, Pa. "Magaw's Favorite." (For Cheese)	7,234	Dec. 12	89	2071
Leonard Packing Co., I. L., Cambridge, Md. "Olympia Brand." (For Canned Goods)	7,144	Sept. 26	88	2245
Levy, Samuel, Memphis, Tenn. "Helen's Wonder." (For a Collapsible Hat-Box)	6,763	Jan. 3	86	1
Lewis, A. S., Louisville, Ky. "Klondyke Koff Kure." (For a Medicine)	7,238	Dec. 19	89	2263
Lewis, J. T., Chatham, Va. "Lewis' Wonderful Pile, Eczema and Catarrh Cure. (For a Medicine)	7,098	Aug. 22	88	1337
Lexington Brewing Company, Lexington, Ky. "Blue Grass Export." (For Lager-Beer)	7,225	Dec. 5	89	1865
Liacowsky, Hyman, New York, N. Y. "The Olympia Washing Gem." (For a Washing Compound)	6,793	Jan. 31	86	635
Lincoln Chemical Co., Milwaukee, Wis. "Formaseptine." (For an Antiseptic Lotion)	6,986	June 27	87	2123
Lincoln Chemical Co., Milwaukee, Wis. "Formopilol." (For Hair-Tonic)	7,178	Oct. 17	89	357
Lindsay, Robert J. (See Bradford and Lindsay.)				
Liquid Carbonic Acid Manufacturing Co., Chicago, Ill. "George Washington Soda." (For Soda)	7,161	Oct. 10	89	193
Locke Bros., Boston, Mass. "Beacon." (For Cotton Thread)	6,801	Feb. 7	86	801
Locke Bros., Boston, Mass. "Lincoln." (For Cotton Thread)	6,802	Feb. 7	86	801
Locke Bros., Boston, Mass. "Allston." (For Cotton Thread)	6,803	Feb. 7	86	801
Logan, Marvin W., Des Moines, Iowa. "Kidney Bean." (For a Medicine)	7,022	July 18	88	389
Logan, Marvin W., Des Moines, Iowa. "Manna." (For a Medicine)	7,114	Sept. 5	88	1707
Long, Roscoe C., Akron, Ohio. "Purest Green Label Baking Powder." (For Baking-Powder)	7,185	Oct. 24	89	525
Lotz, W. H., Baltimore, Md. "Faceline." (For a Face-Cream)	6,947	June 6	87	1613
Louisville Medicine Company, Louisville, Ky. "Mintone." (For a Headache Remedy)	7,054	Aug. 1	88	719
Loveland, William H., Binghamton, N. Y. "Pure Petroleo." (For a Petroleum Compound)	6,834	Feb. 28	86	1327
Lowenthal, Firm of Josef, New York, N. Y. "Lithuanian Stomach Bitters." (For Stomach-Bitters)	7,231	Dec. 12	89	2071
Lowenthal, L., Jacksonville, Tex. "Battle Ship Brand." (For Fruits and Vegetables)	7,110	Aug. 29	88	1529
M. Hyman Cigar and Importing Company, Denver, Colo. "Myron W. Reed." (For Cigars)	6,980	June 27	87	2123
MacGowan, W. L., Warren, Pa. "Virot's Flavors." (For Flavoring-Extract Bottles)	6,782	Jan. 24	86	493
Manitowoc Pea Packing Company, Manitowoc, Wis. "Harbor City Brand." (For Peas)	7,027	July 18	88	389
Manitowoc Pea Packing Company, Manitowoc, Wis. "Harbor City Brand." (For Peas)	7,028	July 18	88	389
Manitowoc Pea Packing Company, Manitowoc, Wis. "Life Boat Brand." (For Peas)	7,029	July 18	88	389
Maret, V. Annonce, Lowell, Mass. "Maret's Parisian Liquid." (For a Cleansing Compound)	7,083	Aug. 8	88	949
Marie Antoinette Importation Company, New York, N. Y. "Marie Antoinette Private Stock Rye." (For Whisky)	7,208	Nov. 21	89	1345
Marie Antoinette Importation Company, New York, N. Y. "Flanagan's Baltimore Rye." (For Whisky)	7,209	Nov. 21	89	1345
Marie Antoinette Importation Company, New York, N. Y. "Marie Antoinette Club Rye." (For Whisky)	7,210	Nov. 21	89	1345
Marsh & Co., George E., Lynn, Mass. "Napthoil Soap." (For Soap)	6,792	Jan. 31	86	635
Marsh, George, Westfield, N. J. "Standard Juno Brand Pennyroyal and Tansy Pills." (For Pills)	6,897	Apr. 25	87	519
Martin, George H., Cincinnati, Ohio. "Stag Stogies." (For Stogies)	7,224	Dec. 5	89	1865
Marvelous Medicine Co., Cincinnati, Ohio. "Pleasant Celery Headache Cure." (For a Medicine)	7,115	Sept. 5	88	1707
Massachusetts Cotton Mills, Lowell, Mass. "Olympia." (For Cotton Piece Goods)	6,967	June 20	87	1963
Matthews & Co., B. E., Townsend, Mont. "Dodge's Sore Throat Cure." (For a Medicine)	7,167	Oct. 10	89	193
McCormick, Behnke & Co., St. Paul, Minn. "McCormick, Behnke & Co. Fresh Roasted Palace Coffee." (For Coffee)	6,913	May 9	87	897
McLoughlin Brothers, New York, N. Y. "Game of Mother Goose's Christmas Party." (For a Game)	6,849	Mar. 21	86	1807
McLoughlin Brothers, New York, N. Y. "Game of a Frog He Would a Wooing Go." (For a Game)	6,850	Mar. 21	86	1807
McLoughlin Brothers, New York, N. Y. "The Game of On Guard." (For a Game)	6,858	Apr. 4	87	1
McLoughlin Brothers, New York, N. Y. "Game of Ups and Downs." (For a Game)	6,859	Apr. 4	87	1
McLoughlin Brothers, New York, N. Y. "Game of Tobogganing at Christmas." (For a Game)	6,880	Apr. 18	87	361
McLoughlin Brothers, New York, N. Y. "The Game of Captive Princess." (For a Game)	6,962	June 13	87	1787
McLoughlin Brothers, New York, N. Y. "The Game of Topsy Turvy." (For a Game)	6,963	June 13	87	1787
McLoughlin Brothers, New York, N. Y. "Game of When the Cat's Away the Mice Will Play." (For a Game)	6,964	June 13	87	1787
McLoughlin Brothers, New York, N. Y. "Game of Go Bang." (For a Game)	7,124	Sept. 12	88	1901
Meadow Elixir Co., Warren, Ind. "Meadow Elixir." (For Remedy for Diseases of the Horse)	6,776	Jan. 10	86	185
Meek, Finger & Co., Marissa, Ill. "Venus." (For Flour)	6,935	May 23	87	1241
Meinberg, John G., Washington, D. C. "Columbian Cream Bread." (For Bread, Cake, &c.)	7,087	Aug. 15	88	1163

Alphabetical list of registrants of labels—Continued.

Name, residence, and title.	No.	Date.	Official Gazette. Vol.	Page.
Mellin's Food Company of North America, Portland, Me., and Boston, Mass. "Mellin's Food." (For a Food for Infants and Invalids)	6,798	Feb. 7	86	801
Mellin's Food Company of North America, Boston, Mass. "Mellin's Food for Infants and Invalids." (For Food for Infants and Invalids)	6,820	Feb. 21	86	1179
Mellin's Food Company of North America, Boston, Mass. "Mellin's Infants' Food." (For Food for Infants and Invalids)	6,821	Feb. 21	86	1179
Mellin's Food Company of North America, Boston, Mass. "Mellin's Infants' Food." (For Food for Infants and Invalids)	6,822	Feb. 21	86	1179
Mellin's Food Company of North America, Boston, Mass. "Mellin's Food (Alimento de Mellin) Para Niños y Enformos." (For Food for Infants and Invalids)	6,854	Mar. 28	86	1987
Mellon, John, Pittsburg, Pa. "Mellon's Fly Banisher." (For an Insect-Repelling Compound)	7,011	July 11	88	195
Merrick Manufacturing Co., Philadelphia, Pa. "Douno." (For a Tonic)	6,898	Apr. 25	87	519
Miami Soap and Chemical Co., Cincinnati, Ohio. "Scour Bright." (For Scouring-Soap)	7,102	Aug. 29	88	1529
Micajah & Co., Warren, Pa. "Micajah's Medicated Uterine Wafers." (For Certain Named Diseases)	6,781	Jan. 17	86	349
Miller, Charles F., Lancaster, Pa. "Uwanta Bath." (For Soap)	7,103	Aug. 29	88	1529
Mitchell, John T., Marine City, Mich. "Mitchell's Anti Rust Ink." (For Ink)	7,206	Nov. 21	89	1345
Mitchell, S. H., Minneapolis, Minn. "Minneapolis Public School Tablet." (For Writing-Tablets)	7,125	Sept. 12	88	1901
Mix, Ezekiel, Grand Rapids, Mich. "The Monarch." (For Cigars)	6,972	June 20	87	1963
Mohawk Condensed Milk Company, Rochester, N. Y. "Alderney Condensed Milk." (For Condensed Milk)	6,990	June 27	87	2123
Moore, Nellie M., Detroit, Mich. "Savina." (For a Medicinal Preparation)	6,871	Apr. 11	87	183
Mordecai, Henry, New Orleans, La. "Elcurativo Mexican Tonic." (For a Medicine)	6,843	Mar. 7	86	1501
Moroney Medicine Co., Indianapolis, Ind. "Jumbo." (For a Medicine)	7,168	Oct. 10	89	193
Morris, John G., Boston, Mass. "Dr. Hyndman's Black Mixture." (For a Medicine)	6,837	Feb. 28	86	1327
Morrison, John S., St. Joseph, Mo. "Beloit X X Brand." (For Butter)	7,264	Dec. 26	89	2467
Morro Castle Cigar Company, Washington, D. C. "Morro Castle." (For Cigars)	6,915	May 9	87	897
Napoli, Carmine, Philadelphia, Pa. "Compound Plaster of Fig Leaves." (For a Plaster)	6,961	June 13	87	1787
National Chemical Co., New York, N. Y. "Parisian Perfumed Ink." (For Perfumed Inks)	7,045	July 25	88	549
Neudorf, A., New York, N. Y. "La Perla de Paris." (For Cigars)	7,021	July 18	88	389
Newman's Steam Bottling Works, Helena, Ark. "Bromo-Fizz." (For a Headache Remedy)	7,023	July 18	88	389
Nichols Chemical Company, New York, N. Y. "Laurel Green." (For Insecticides)	6,921	May 9	87	897
Niestlie, William, Wilmington, N. C. "Niestlie's 10c. Croup Kura." (For a Croup-Salve)	7,079	Aug. 8	88	949
Niestlie, William, Wilmington, N. C. "Niestlie's Liniment." (For a Liniment)	7,080	Aug. 8	88	949
Nightingale, Charles A., Evansville, Ind. "The Nightingale." (For Stringed Instruments)	7,101	Aug. 29	88	1529
Nihill, Joseph, Springfield, Mass. "Pelka Cures Drunkenness." (For a Remedy for Drunkenness)	6,818	Feb. 14	86	999
Nitzsche, Hugo, St. Louis, Mo. "Trade." (For Cigars)	6,832	Feb. 28	86	1327
Northville Condensing Company, Northville, Mich. "Valley Brand." (For Condensed Milk)	7,026	July 18	88	389
Omealia, Cornelius J., Kenosha, Wis. "Hand Shaved Leather." (For Leather)	6,968	June 20	87	1963
Oregon Canning Co., Gardiner, Oreg. "Premium Brand Salmon." (For Fish)	7,174	Oct. 17	89	357
P. H. Fairlamb Company, Philadelphia, Pa. "Hecla." (For Portland Cement)	6,770	Jan. 3	86	1
Pabst Brewing Company, Milwaukee, Wis. "Extra Mild." (For Bottled Beer)	6,878	Apr. 11	87	183
Pabst Brewing Company, Milwaukee, Wis. "Red, White and Blue." (For Bottled Beer)	6,879	Apr. 11	87	183
Payette & Co., G. M., Washington, D. C. "Payette's Tar Shampoo." (For Shampoo Preparations)	7,236	Dec. 12	89	2071
Peanolia Food Company, New Haven, Conn. "Peanolia, a Refined Peanut Butter." (For Peanut-Butter)	7,107	Aug. 29	88	1529
Peerless Carbon Black Company, Limited, Pittsburg, Pa. "Peerless Black." (For Carbon-Black)	7,001	July 4	88	1
Peet & Co., Rogers, New York, N. Y. "Nil Conscrire Sibi." (For a Head-Covering)	6,869	Apr. 11	87	183
Peirce & Co., O. W., Lafayette, Ind. "Peirce's Golden Rio Coffee." (For Coffee)	6,825	Feb. 21	86	1179
Peironnet, F. M., San Francisco, Cal. "Uterotone." (For Medicine)	7,229	Dec. 12	89	2071
Penick & Ford, Shreveport, La. "Old Fashion Open Kettle Plantation Molasses." (For Syrup and Molasses)	7,155	Oct. 3	89	1
Pfister & Vogel Leather Company, Milwaukee, Wis. "Velours Calf." (For Leather)	6,881	Apr. 18	87	361
Pfister & Vogel Leather Company, Milwaukee, Wis. "Diamond Calf." (For Leather)	6,882	Apr. 18	87	361
Philadelphia Extract Manufacturing Co., Philadelphia, Pa. "Old Pure Rye Whiskey." (For Whisky)	7,196	Nov. 7	89	923
Philadelphia Extract Manufacturing Co., Philadelphia, Pa. "Superior Old Wine." (For Wines and Liquors)	7,197	Nov. 7	89	923
Pillsbury-Washburn Flour Mills Company, Limited, Minneapolis, Minn. "Pillsbury's Flaked Oat Food." (For Oat Food)	7,031	July 18	88	389
Pillsbury-Washburn Flour Mills Company, Limited, Minneapolis, Minn. "Pillsbury's Flaked Oat Food." (For Oat Food)	7,032	July 18	88	389
Pillsbury-Washburn Flour Mills Company, Limited, Minneapolis, Minn. "Pillsbury's Flaked Oat Food." (For Oat Food)	7,033	July 18	88	389
Pillsbury-Washburn Flour Mills Company, Limited, Minneapolis, Minn. "Pillsbury's Flaked Food." (For Oat Food)	7,034	July 18	88	389
Pillsbury-Washburn Flour Mills Company, Limited, Minneapolis, Minn. "Pillsbury's Oat Food." (For Oat Food)	7,035	July 18	88	389
Pillsbury-Washburn Flour Mills Company, Limited, Minneapolis, Minn. "Pillsbury's Flaked Oat Food." (For Oat Food)	7,036	July 18	88	389
Pillsbury-Washburn Flour Mills Company, Limited, Minneapolis, Minn. "Pillsbury's Vitos." (For Wheat Food)	7,037	July 18	88	389
Pillsbury-Washburn Flour Mills Company, Limited, Minneapolis, Minn. "Pillsbury's Vitos." (For Wheat Food)	7,038	July 18	88	389
Pillsbury-Washburn Flour Mills Company, Limited, Minneapolis, Minn. "Pillsbury's Vitos." (For Wheat Food)	7,039	July 18	88	389
Pillsbury-Washburn Flour Mills Company, Limited, Minneapolis, Minn. "Pillsbury's Vitos." (For Wheat Food)	7,040	July 18	88	389
Pillsbury-Washburn Flour Mills Company, Limited, Minneapolis, Minn. "Pillsbury's Vitos." (For Wheat Food)	7,041	July 18	88	389
Pillsbury-Washburn Flour Mills Company, Limited, Minneapolis, Minn. "Pillsbury's Vitos." (For Wheat Food)	7,042	July 18	88	389
Pillsbury-Washburn Flour Mills Company, Limited, Minneapolis, Minn. "Pillsbury's Vitos." (For Wheat Food)	7,043	July 18	88	389
Pillsbury-Washburn Flour Mills Company, Limited, Minneapolis, Minn. "Pillsbury's Flaked Oat Food." (For Oat Food)	7,066	Aug. 1	88	719
Pillsbury-Washburn Flour Mills Company, Limited, Minneapolis, Minn. "Pillsbury's Flaked Oat Food." (For Oat Food)	7,067	Aug. 1	88	719
Pillsbury-Washburn Flour Mills Company, Limited, Minneapolis, Minn. "Pillsbury's Flaked Oat Food." (For Oat Food)	7,068	Aug. 1	88	719
Piquett, John P., Baltimore, Md. "P. K. Antiseptic Compound." (For a Medicine)	7,267	Dec. 26	89	2467
Powell, William C., Snow Hill, Md. "W. C. P." (For Headache-Powders)	7,055	Aug. 1	88	719
Prather, T. H., San Francisco, Cal. "Prather's Eagle Cleansing Fluid." (For Cleansing Fluid)	7,025	July 18	88	389

Alphabetical list of registrants of labels—Continued.

Name, residence, and title.	No.	Date.	Official Gazette. Vol.	Page.
Prescription Medicine Co., Canton, Ohio. "Dr. Kirby's Golden Formula." (For a Medicine)	6,917	May 9	87	897
Prins, Frank and G., Grand Rapids, Mich. "Prince's Diphtheria Cure." (For a Medicine)	6,920	May 9	87	897
Prins, Geert. (See Prins, Frank and G.)				
Puzzle Co., Pittsburg, Pa. "Cornering The Filipinos." (For Games or Puzzles)	7,184	Oct. 24	89	525
Pyralgine Chemical Company, Easton, Md. "Pyralgine." (For a Medicinal Compound)	7,111	Aug. 29	88	1529
Quabaug Spring Water Co., North Brookfield, Mass. "Quabaug Spring Water." (For Spring-Water)	7,191	Oct. 31	89	709
R. T. French Company, Rochester, N. Y. "French's Pure Gold." (For Jelly)	6,901	May 2	87	701
Randall Mattress Company, Cleveland, Ohio. "The Randall Cotton Felt Mattress." (For Mattresses)	6,840	Mar. 7	86	1501
Reed, William W., Jersey City, N. J. "The Great Eagle Pile Cure." (For Medicine)	6,769	Jan. 3	86	1
Reinhart, Rogg & Co., Cincinnati, Ohio. "Peiroco R. R. & Co." (For a Medicine)	7,116	Sept. 5	88	1707
Retailers Cigarette Co., New York, N. Y. "Retailers Own Make. Sweetts." (For Boxes of Cigarettes)	7,139	Sept. 26	88	2245
Reynolds, Joseph, New York, N. Y. "Silverall." (For a Cleaning and Replating Compound)	6,900	Apr. 25	87	519
Reynolds Tobacco Company, Bristol, Tenn. "May Queen." (For Smoking-Tobacco)	6,916	May 9	87	897
Richardson, R. E., Talleysville, Va. "Belmont Lithia Water." (For Lithia Water)	6,981	June 27	87	2123
Richardson, William N., New York, N. Y. "The '400' Brand." (For Ginger-Ale)	7,162	Oct. 10	89	193
Ritter & Halsted, New York, N. Y. "The Advertising Egg Box." (For Egg-Boxes)	6,841	Mar. 7	86	1501
Roberts Bros., Warsaw, N. Y. "White Foam." (For Flour)	7,175	Oct. 17	89	357
Robinson, Edward P., New York, N. Y. "Dr. Robinson's Vegetable Compound Vita-Vin." (For a Medical Compound)	6,957	June 6	87	1613
Roessler & Hasslacher Chemical Company, New York, N. Y. "Chloroform-Pictet." (For Chloroform)	6,899	Apr. 25	87	519
Rose, Daniel, Cleveland, Ohio. "Rose's Exterminator." (For a Rat-Exterminator)	6,787	Jan. 24	86	493
Rose, Daniel, Cleveland, Ohio. "Rose's Non-Poisonous Insect Exterminator." (For an Insect-Exterminator)	6,788	Jan. 24	86	493
Rusk & Welch, Clarksburg, W. Va. "Rusk & Welch's Hair Restorer and Dandruff Cure." (For a Hair-Tonic)	6,865	Apr. 4	87	1
Sachs-Pruden Ginger Ale Co., Dayton, Ohio. "Sparkling Dewey." (For Beverages and Extracts Therefor)	6,982	June 27	87	2123
Saginaw Specialty Company, Saginaw, Mich. "Sugar Beet." (For Cigars)	6,973	June 20	87	1963
Sarlls' Maple Syrup Co., Louisville, Ky. "Sarlls' Best Maple Syrup." (For Maple-Syrup)	6,896	Apr. 25	87	519
Sauerwein & Co., J. P., Baltimore, Md. "Cascaramels." (For a Medicine)	7,127	Sept. 12	88	1901
Schaefer, J. H., Denver, Colo. "Colorado's Choice, First, Last and Always." (For Cigars)	7,130	Sept. 12	88	1901
Schambach, C. H., Nevada, Mo. "Campho-Phenol Antiseptic Soap." (For Soap)	7,104	Aug. 29	88	1529
Schneider, Theodore, Youngstown, Ohio. "No. 229." (For Russian Samen Getreide-Kümmel)	6,797	Feb. 7	86	801
Schroeder, Albert F., Chicago, Ill. "Schroeder's Complexion Salt." (For a Medicine)	7,024	July 18	88	389
Schuster & Co., Cleveland, Ohio. "Bismark Pepsin Bitters." (For Bitters)	7,142	Sept. 26	88	2245
Scott, Blair F., Lake City, Mich. "Scott's Asthma Cure." (For a Medicine)	6,866	Apr. 4	87	1
Scott Paper Co., Limited, Philadelphia, Pa. "Balsamic." (For Toilet-Paper)	6,799	Feb. 7	86	801
Seattle Brewing and Malting Company, Seattle, Wash. "Rainier Beer." (For Lager-Beer)	7,141	Sept. 26	88	2245
Seither, Charles A., Philadelphia, Pa. "Rex Baking Powder." (For Baking-Powder)	6,790	Jan. 31	86	635
Sherwood, Fred Z., Faribault, Minn. "Sherwood's Lithia Compound." (For a Medicine)	7,151	Oct. 3	89	1
Siegel, Cooper & Company, Chicago, Ill. "Concord Cameras." (For Cameras)	6,992	June 27	87	2123
Silver Suds Manufacturing Co., Philadelphia, Pa. "Genuine Medicated French Tissue." (For a Medicine)	7,081	Aug. 8	88	949
Simons & Co., B., Syracuse, N. Y. "Turtle Club." (For Cigars)	7,086	Aug. 15	88	1163
Smith, Charlotte E., Swampscott, Mass. "Bluenose Bitters." (For Bitters)	6,983	June 27	87	2123
Smith, William, Coaticook, Canada. "Smith's Indian Rheumatic & Kidney Cure." (For a Medicine)	6,868	Apr. 4	87	1
Sondheim & Magnus, New York, N. Y. "Clover." (For Cotton Yarn or Floss)	6,857	Apr. 4	87	1
Sovereign Medicine Co., Illiopolis, Ill. "McNier's Sovereign Rheumatic and Neuralgia Cure." (For a Medicine)	6,988	June 27	87	2123
Spear Bros., New York, N. Y. "Spear Bros. American Ribbon Cigar." (For Cigars)	6,861	Apr. 4	87	1
Standard Paint Company, New York, N. Y. "The Universal Building Paper"	7,004	July 4	88	1
Standard Paint Company, New York, N. Y. "P. & B. Insulating and Building Paper"	7,005	July 4	88	1
Standard Paint Company, New York, N. Y. "P. & B. Ruberoid Roofing"	7,006	July 4	88	1
Standard Paint Company, New York, N. Y. "P. & B. Ruberoid Locomotive Cab Roofing"	7,007	July 4	88	1
Standard Snuff Company, Nashville, Tenn. "Standard." (For Snuff)	6,809	Feb. 7	86	801
Standard Snuff Company, Nashville, Tenn. "Standard." (For Snuff)	6,810	Feb. 7	86	801
Standard Snuff Company, Nashville, Tenn. "Standard." (For Snuff)	6,811	Feb. 7	86	801
Standard Veterinary Oil Manufacturing Company, Limited, Old Forge, Pa. "Hippolin." (For a Veterinary Remedy)	7,117	Sept. 5	88	1707
Stark, John, Mayfield, Ky. "Stark's Hair Tonic." (For a Hair-Tonic)	7,009	July 11	88	195
Stevenson, Eloner G., Minneapolis, Minn. "Perfection Brand Plum Pudding." (For Plum Pudding)	7,217	Nov. 28	89	1673
Stewart Snuff Company, Clarksville, Tenn. "Stewart's Log Cabin Scotch Snuff." (For Tobacco Snuff)	6,996	July 4	88	1
Stewart Snuff Company, Clarksville, Tenn. "Stewart's Log Cabin Scotch Snuff." (For Tobacco Snuff)	6,997	July 4	88	1
Stonebraker & Co., Joseph R., Baltimore, Md. "Wide Awake Maryland Rye." (For Whisky)	6,862	Apr. 4	87	1
Stonebraker & Co., Joseph R., Baltimore, Md. "Oriola Baltimore Rye." (For Whisky)	6,863	Apr. 4	87	1
Supplee Hardware Company, Philadelphia, Pa. "Royal Blue." (For Certain Named Hardware and Cutlery)	6,923	May 16	87	1079
Surbrug, John W., Montclair, N. J. "Milo." (For Cigarettes and Smoking-Tobacco)	6,945	May 30	87	1403
Sutton, R. K., Ashland, Oreg. "Sutton's Snap Shot." (For a Medicine)	7,008	July 11	88	195
Terrill Medical and Surgical Institute, Wichita, Kans. "Dr. Terrill's Man Restorer." (For a Medicine)	6,847	Mar. 14	86	1637
Thayer-Milne Co., Philadelphia, Pa. "Takanap." (For Soap)	7,092	Aug. 15	88	1163
Tillmann & Bendel, San Francisco, Cal. "Tillmann's Hawaiian Coffee." (For Coffee)	7,016	July 11	88	195
Tillmann & Bendel, San Francisco, Cal. "Flavoring Extracts." (For Flavoring Extracts)	7,017	July 11	88	195
Tillmann & Bendel, San Francisco, Cal. "Queen B Baking Powder." (For Baking-Powder)	7,018	July 11	88	195
Tri-Angle Chemical Company, St. Louis, Mo. "Venerina." (For an Antiseptic Remedy)	6,778	Jan. 10	86	185
Trolley Shoe Polish Co., Brockton, Mass. "Trolley Shoe Polish." (For Shoe-Polish)	7,121	Sept. 5	88	1707
Troxell, A. Richard, Cheyenne, Wyo. "A. R. Troxell's Hair Life." (For a Preparation for the Hair)	6,937	May 23	87	1241
United States Printing Company, Cincinnati, Ohio. "Natural Apricots." (For Canned Goods)	7,048	July 25	88	549
United States Printing Company, Cincinnati, Ohio. "Natural Peaches." (For Canned Goods)	7,049	July 25	88	549
United States Printing Company, Cincinnati, Ohio. "Natural Cherries." (For Canned Goods)	7,050	July 25	88	549
United States Printing Company, Cincinnati, Ohio, and New York, N. Y. "Natural Peaches." (For Canned Goods)	7,088	Aug. 15	88	1163
United States Printing Company, Cincinnati, Ohio, and New York, N. Y. "Natural Green Gages." (For Canned Goods)	7,089	Aug. 15	88	1163
United States Printing Company, Cincinnati, Ohio, and New York, N. Y. "Natural Bartlett Pears." (For Canned Goods)	7,090	Aug. 15	88	1163

Alphabetical list of registrants of labels—Continued.

Name, residence, and title.	No.	Date.	Official Gazette. Vol.	Page.
United States Printing Company, Cincinnati, Ohio, and New York, N. Y. "Natural Whole Apricots." (For Canned Goods)	7,170	Oct. 17	89	357
United States Printing Company, Cincinnati, Ohio, and New York, N. Y. "Natural Red Raspberries." (For Canned Goods)	7,171	Oct. 17	89	357
United States Printing Company, Cincinnati, Ohio, and New York, N. Y. "Natural Strawberries." (For Canned Goods)	7,172	Oct. 17	89	357
United States Printing Company, Cincinnati, Ohio, and New York, N. Y. "Natural White Cherries." (For Canned Goods)	7,173	Oct. 17	89	357
United States Printing Company, Cincinnati, Ohio, and New York, N. Y. "Natural Wax Beans." (For Canned Goods)	7,218	Nov. 28	89	1673
United States Printing Company, Cincinnati, Ohio, and New York, N. Y. "Natural Succotash." (For Canned Goods)	7,219	Nov. 28	89	1673
United States Printing Company, Cincinnati, Ohio, and New York, N. Y. "Natural Golden Wax Beans." (For Canned Goods)	7,220	Nov. 28	89	1673
United States Printing Company, Cincinnati, Ohio, and New York, N. Y. "Natural Lima Beans." (For Canned Goods)	7,221	Nov. 28	89	1673
United States Printing Company, Cincinnati, Ohio, and New York, N. Y. "Natural Early June Peas." (For Canned Goods)	7,222	Nov. 28	89	1673
United States Printing Company, Cincinnati, Ohio, and New York, N. Y. "Natural Stringless Beans." (For Canned Goods)	7,223	Nov. 28	89	1673
United States Printing Company, New York, N. Y., and Cincinnati, Ohio. "Golden Moire Antique Natural Whole Apricots." (For Canned Goods)	7,241	Dec. 19	89	2263
United States Printing Company, New York, N. Y., and Cincinnati, Ohio. "Unique Natural Whole Apricots." (For Canned Goods)	7,242	Dec. 19	89	2263
United States Printing Company, New York, N. Y., and Cincinnati, Ohio. "Red Maiden Hair Natural Whole Apricots." (For Canned Goods)	7,243	Dec. 19	89	2263
United States Printing Company, New York, N. Y., and Cincinnati, Ohio. "Arboreal Natural White Cherries." (For Canned Goods)	7,244	Dec. 19	89	2263
United States Printing Company, New York, N. Y., and Cincinnati, Ohio. "Golden Square Natural White Cherries." (For Canned Goods)	7,245	Dec. 19	89	2263
United States Printing Company, New York, N. Y., and Cincinnati, Ohio. "Golden Holly Leaf Natural White Cherries." (For Canned Goods)	7,246	Dec. 19	89	2263
United States Printing Company, New York, N. Y., and Cincinnati, Ohio. "Golden Moire Antique Natural Strawberries." (For Canned Goods)	7,247	Dec. 19	89	2263
United States Printing Company, New York, N. Y., and Cincinnati, Ohio. "Basket Natural Strawberries." (For Canned Goods)	7,248	Dec. 19	89	2263
United States Printing Company, New York, N. Y., and Cincinnati, Ohio. "Lattice Natural Strawberries." (For Canned Goods)	7,249	Dec. 19	89	2263
United States Printing Company, New York, N. Y., and Cincinnati, Ohio. "Checker Board Natural Red Raspberries." (For Canned Goods)	7,250	Dec. 19	89	2263
United States Printing Company, New York, N. Y., and Cincinnati, Ohio. "Red Maiden Hair Natural Red Raspberries." (For Canned Goods)	7,251	Dec. 19	89	2263
United States Printing Company, New York, N. Y., and Cincinnati, Ohio. "Golden Maiden Hair Natural Red Raspberries." (For Canned Goods)	7,252	Dec. 19	89	2263
United States Printing Company, New York, N. Y., and Cincinnati, Ohio. "Natural Select Lima Beans." (For Canned Goods)	7,253	Dec. 19	89	2263
United States Printing Company, New York, N. Y., and Cincinnati, Ohio. "Natural Sugar Corn." (For Canned Goods)	7,254	Dec. 19	89	2263
United States Printing Company, New York, N. Y., and Cincinnati, Ohio. "Sugar Corn." (For Canned Goods)	7,255	Dec. 19	89	2263
United States Printing Company, New York, N. Y., and Cincinnati, Ohio. "Sugar Corn." (For Canned Goods)	7,256	Dec. 19	89	2263
United States Printing Company, New York, N. Y., and Cincinnati, Ohio. "Tomatoes." (For Canned Goods)	7,257	Dec. 19	89	2263
United States Printing Company, New York, N. Y., and Cincinnati, Ohio. "Salmon." (For Canned Goods)	7,258	Dec. 19	89	2263
United States Printing Company, New York, N. Y., and Cincinnati, Ohio. "Salmon." (For Canned Goods)	7,259	Dec. 19	89	2263
United States Printing Company, New York, N. Y., and Cincinnati, Ohio. "Salmon." (For Canned Goods)	7,260	Dec. 19	89	2263
United States Printing Company, New York, N. Y., and Cincinnati, Ohio. "Corn." (For Canned Goods)	7,265	Dec. 26	89	2467
United Wine and Trading Company, New York, N. Y. "Pearl Wedding Rye Whiskey." (For Whisky)	7,213	Nov. 28	89	1673
United Wine and Trading Company, New York, N. Y. "Old Reliable Rye Whiskey." (For Whisky)	7,214	Nov. 28	89	1673
V. C. & C. V. King Company, New York, N. Y. "Lion Brand." (For Plaster-of-Paris)	7,002	July 4	88	1
V. C. & C. V. King Company, New York, N. Y. "Crescent Brand." (For Plaster-of-Paris)	7,003	July 4	88	1
Vail Brothers, Philadelphia, Pa. "Crushed Violets." (For Perfumery)	6,860	Apr. 4	87	1
Vail Brothers, Philadelphia, Pa. "Solid Comfort for the Feet." (For a Preparation for the Feet)	6,943	May 23	87	1241
Vichy, Henry, Jersey City, N. J. "Henry Vichy's Argonite Art Works." (For Statuary and Ornaments)	6,969	June 20	87	1963
Voss & Bro., J. H., Cincinnati, Ohio. "Voss Perfection Coffee." (For Coffee)	7,135	Sept. 12	88	1901
Webb, G. B., Warren, Ind. "Webb's Blood Renewer and Anti-Rheumatic." (For a Medical Compound)	6,796	Jan. 31	86	635
Weichert, Hermann, Jersey City, N. J. "Imported Talcum Powder." (For Talcum Powder)	6,815	Feb. 14	86	999
West & Jenney, Boston, Mass. "Mangani Pepto Ferrum, 'Westjen.'" (For a Medicinal Preparation)	7,082	Aug. 8	88	949
Western Hardware and Manufacturing Company, Milwaukee, Wis. "Splendorine." (For a Metal-Polish)	6,875	Apr. 11	87	183
Western Medical Supply Company, Chicago, Ill. "Phospho-Tartrate of Sodium and Magnesium." (For a Medicine)	6,942	May 23	87	1241
Whaley, Edward M., and W. C. Dashiell, Baltimore, Md. "Royal Gem." (For Coffee)	7,226	Dec. 5	89	1865
White, Williamson & Co., Graham, N. C. "Olympia Plaids." (For Cotton Cloth)	6,922	May 16	87	1079
Wickert, William P., Fostoria, Ohio. "Elks Pastime." (For Cigars)	7,201	Nov. 14	89	1145
Wiecking, Herman W., Minneapolis, Minn. "Quality." (For Cigars)	7,160	Oct. 10	89	193
Wight & Weslosky Company, Albany, Ga. "Dove Brand." (For Canned Goods)	7,266	Dec. 26	89	2467
Wilcox & Co., Eugene L., Boston, Mass. "Dr. Wilcox's Blood Tonic Pills." (For Pills)	7,192	Oct. 31	89	709
Williams Coffee Company, Pittsburg, Pa. "Espinosa Coffee." (For Coffee)	7,233	Dec. 12	89	2071
Wilson & Co., F. P., Minneapolis, Minn. "Wilson's Old Colony Sap." (For Maple-Syrup)	6,934	May 23	87	1241
Wisconsin Butter and Cheese Company, Waukesha, Wis. "Waukesha Cream Cheese." (For Cheese)	6,876	Apr. 11	87	183
Wisconsin Butter and Cheese Company, Waukesha, Wis. "Neufchatel Waukesha Cream Cheese." (For Cheese)	6,877	Apr. 11	87	183

Alphabetical list of registrants of labels—Continued.

Name, residence, and title.	No.	Date.	Official Gazette.	
			Vol.	Page.
Wm. J. Lemp Brewing Company, St. Louis, Mo. "Tally." (For Bottled Beer)	6,889	Apr. 18	87	361
Wm. J. Lemp Brewing Company, St. Louis, Mo. "Falstaf." (For Bottled Beer)	6,890	Apr. 18	87	361
Wm. J. Lemp Brewing Company, St. Louis, Mo. "Interstate." (For Bottled Beer)	6,891	Apr. 18	87	361
Wm. J. Lemp Brewing Company, St. Louis, Mo. "Admiral." (For Bottled Beer)	6,892	Apr. 18	87	361
Wood, Stephen L., New York, N. Y. "Boroform." (For an Antiseptic)	6,835	Feb. 28	86	1327
Woods, Hiram, Denver, Colo. "Rocky Ford Cantaloupes." (For Cantaloupes)	7,051	July 25	88	549
Woolens' Drug Company of Baltimore City, Baltimore, Md. "Woolford's Head-Aid." (For Medicines)	6,883	Apr. 18	87	361
Wright & Co., E. H., Kansas City, Mo. "Wright's Condensed Smoke." (For Condensed Smoke)	6,991	June 27	87	2123
Wuersten, Henry, Warren, Ind. "The Merchant." (For Cigars)	7,181	Oct. 17	89	357
Yellow Pine Extract Co., Pittsburg, Pa. "Yellow Pine Compound." (For a Medical Compound)	7,044	July 25	88	549
Young, Joseph F., Augusta, Me. "Young's Witch Hazel and Almond Cream." (For a Toilet Preparation)	7,215	Nov. 28	89	1673
Youngstown Dry Goods Company, Youngstown, Ohio. "Wearwell." (For Clothing)	7,075	Aug. 8	88	949

PRINTS.

Name, residence, and title.	No.	Date.	Official Gazette. Volume.	Page.
American Leather Company, New York, N. Y. "Alone on the Summit." (For Glazed-Kid Leather)	108	Feb. 21	86	1179
Andrews Manufacturing Co., Bristol, Tenn. "St. Andrews Cold Tea." (For a Medicine)	118	Mar. 28	86	1987
Andrews Manufacturing Co., Bristol, Tenn. "St. Andrews Cold Tea." (For a Medicine)	119	Mar. 28	86	1987
Andrews Manufacturing Co., Bristol, Tenn. "St. Andrews Cold Tea." (For a Medicine)	120	Mar. 28	86	1987
Arakelian, Melkon L., New York, N. Y. "Fermented Milk Food." (For a Food)	156	Aug. 8	88	949
Arthur, Benjamin F., Springfield, Mass. "Pink of Perfection Silver Polish." (For Cleaning and Polishing Preparations)	111	Mar. 7	86	1501
Association of American Directory Publishers, New York, N. Y. "Pro Bono Publico." (For Directories)	139	May 23	87	1241
Blomberg, Charles F., and C. P. Randolph, St. Louis, Mo. "Palo." (For Games)	107	Feb. 14	86	999
Blome & Son Co., George, Baltimore, Md. "The Great Southern Candy Department." (For Candy)	172	Oct. 3	89	1
Bouillon Stock Manufacturing Company, Chicago, Ill. "Wahl's Bouillon." (For Bouillon)	131	May 2	87	701
C. F. Sauer Company, Richmond, Va. "Old Dominion Baking Powder." (For Baking-Powder)	117	Mar. 28	86	1987
Carpenter-Morton Company, Boston, Mass. "Colorite." (For Liquid Coloring-Matter)	96	Jan. 10	86	185
Clark & Co., H. W., North Adams, Mass. "Clark's Gold Flower." (For Coffee)	112	Mar. 14	86	1637
Collins Manufacturing Company, F. F., San Antonio, Tex. "The Pioneer Water Supply House of Texas." (For Windmills, &c.)	126	Apr. 18	87	361
Conroy, William E., Saginaw, Mich. "Opticura." (For a Medicinal Preparation)	105	Feb. 7	86	801
Cutter & Crossette, Chicago, Ill. "The Elgin Shirt." (For Shirts)	93	Jan. 3	86	1
Derby Mill and Elevator Company, Burlington, Iowa. "Iosota." (For Flour)	184	Nov. 28	89	1673
Dreisbach & Schamhach, Carthage, Mo. "Show Me Soap." (For Soap)	138	May 16	87	1079
Easton, Charles P., Leominster, Mass. "Perfection Joint Cement." (For Cement)	151	July 11	88	195
Edelstein, Walter, Boston, Mass. "The Lahori $3.50 Shoe." (For Shoes)	178	Oct. 31	89	709
Ellet Bros. Shoe Company, Kansas City, Mo. "Never-Rip-Em." (For Shoes)	179	Oct. 31	89	709
Ellet Bros. Shoe Company, Kansas City, Mo. "Never-Rip-Em." (For Shoes)	181	Nov. 14	89	1145
Everett, Samuel H., New York, N. Y. "Everett's Snow Flake Baking Powder." (For a Baking-Powder)	157	Aug. 8	88	949
Gibbs & Williams Company, New York, N. Y. "Mennen's Borated Talcum Powder." (For Talcum Powder)	149	July 4	88	1
Gilman, Myron A., Westfield, Mass. "Our Winner." (For Bicycles)	161	Aug. 29	88	1529
Glauher Brass Manufacturing Co., Cleveland, Ohio. "Glauher's High Grade Brass Goods." (For Plumbers' Supplies)	155	July 25	88	549
Goddard & Sons, J. W., New York, N. Y. "Feder's Pompadour Skirt Protector." (For Skirt-Protectors)	143	May 30	87	1403
Goodhart, Jerome, Batesville, Ohio. "Our 20th Century Cigar." (For Cigars)	180	Nov. 7	89	923
Graf, John, Milwaukee, Wis. "The Best What Gives." (For Beverages)	142	May 30	87	1403
Gray Lithograph Co., New York, N. Y. "Anheuser-Busch." (For Beer)	175	Oct. 17	89	357
Green, J. B., Saginaw, Mich. "J. B. Hair Restorative." (For a Hair-Restorer)	162	Sept. 5	88	1707
Gunther, C. F., Chicago, Ill. "Gunther's Great Scott." (For Candy)	150	July 11	88	195
H. W. Johns Manufacturing Company, New York, N. Y. "H. W. Johns' Ashestos Roofings." (For Insulating Materials, &c)	134	May 2	87	701
Higgins, Charles M., New York, N. Y. "A Bunch of Cohea." (For Paste for Mounting Photographs)	121	Apr. 4	87	1
Holland, Daniel E., Rolinsford, N. H. "Righy." (For Cigars)	189	Dec. 19	89	2263
Howard & Keith, Brockton, Mass. "Sunrays Disinfectant." (For a Deodorizer and Germicide)	182	Nov. 14	89	1145
Huyler's, New York, N. Y. "Huyler's Cocoa and Chocolate From the Bean." (For Cocoa and Chocolate)	187	Dec. 5	89	1865
Huyler's, New York, N. Y. "From Bean to Cup." (For Cocoa and Chocolate)	192	Dec. 26	89	2467
Jones, Thomas W., Denver, Colo. "Rocky Mountain Souvenir Playing Cards." (For Cards)	160	Aug. 29	88	1529
Kern & Sons, John B. A., Milwaukee, Wis. "'Success' Did It." (For Flour)	153	July 18	88	389
Kutnow Bros., New York, N. Y. "Sam, My Boy! I Recommend You to Write for a Free Sample of Kutnow's Effervescent Powder, England's Standard Remedy." (For Kutnow's Effervescent Powder)	170	Sept. 12	88	1901
Lockhart, C. A., Buffalo, N. Y. "Mill End." (For Fabrics)	147	July 4	88	1
Manz Photographing Company, Chicago, Ill. "Prince of Wales Egyptian Cigarettes." (For Cigarettes)	132	May 2	87	701
Marrow, W. D., Richmond, Va. "Everything Electric." (For Electrical Appliances)	133	May 2	87	701
McCormick, Behnke & Co., St. Paul, Minn. "McCormick, Behnke & Co. Fresh Roasted Palace Coffee." (For Coffee)	135	May 9	87	897
McLoughlin Brothers, New York, N. Y. "Department Store Game Card." (For a Game)	106	Feb. 14	86	999
McLoughlin Brothers, New York, N. Y. "Mother Goose's Christmas Party Game Card." (For a Game.)	113	Mar. 21	86	1807
McLoughlin Brothers, New York, N. Y. "Frog He Would a Wooing Go Game Card." (For a Game	114	Mar. 21	86	1807
McLoughlin Brothers, New York, N. Y. "Quaker Whist Cards." (For a Game)	115	Mar. 21	86	1807
McLoughlin Brothers, New York, N. Y. "Game of Battles or Fun for Boys." (For a Game)	163	Sept. 12	88	1901
Milford Drug Co., Milford, Ind. "Hindoo Tobacco Cure." (For a Tobacco Cure)	140	May 23	87	1241
Miller Ladder Co., Chicago, Ill. "You Can Trust Your Neck on a Miller Ladder." (For Ladders)	191	Dec. 19	89	2263
Milwaukee Patent Puncture-Proof Tire Company, Milwaukee, Wis. "Presenting Testimonials." (For Puncture-Proof Tires)	183	Nov. 21	89	1345
Mohawk & Hudson Manufacturing Company, Waterford, N. Y. "Eddy Valves." (For Valves)	144	June 6	87	1613
Mohawk & Hudson Manufacturing Company, Waterford, N. Y. "The Gait That Sets the Pace." (For Valves)	145	June 6	87	1613
Mulligan, W. G., Portland, Me. "Elevator." (For Coffee)	136	May 9	87	897
National Carbon Company, Cleveland, Ohio. "The Real Carbon Battery." (For Carbon Batteries)	190	Dec. 19	89	2263
National Computing Scale Company, Cleveland, Ohio. "National Platform Computing Scale." (For Computing-Scales)	128	Apr. 25	87	519
National Computing Scale Company, Cleveland, Ohio. "The National Automatic Computing Scale." (For Computing-Scales)	129	Apr. 25	87	519

Alphabetical list of registrants of prints—Continued.

Name, residence, and title.	No.	Date.	Official Gazette. Vol.	Page.
National Computing Scale Company, Cleveland, Ohio. "National Automatic Hanging Spring Scales." (For Computing-Scales)	130	Apr. 25	87	519
New York Consolidated Card Company, New York, N. Y. "The Alliance." (For Playing-Cards)	97	Jan. 24	86	493
New York Consolidated Card Company, New York, N. Y. "The New Poker Squeezer." (For Playing-Cards)	98	Jan. 24	86	493
Puritan Shoe Company, Detroit, Mich. "Puritan." (For Shoes)	152	July 11	88	195
R. Bliss Manufacturing Company, Pawtucket, R. I. "Our Sailor Boy." (For Naval Block Toys)	148	July 4	88	1
Randolph, Clabrom P. (See Blomberg and Randolph.)				
Repetti, Charles, New York, N. Y. "Repetti." (For Confectionery)	154	July 25	88	549
Saks & Co., Washington, D. C. "Fit Reform Garments." (For Clothing)	94	Jan. 3	86	1
Saks & Co., Washington, D. C. "Fit Reform Clothing." (For Clothing)	95	Jan. 3	86	1
Schall & Co., New York, N. Y. "Dewey Celebration." (For Confetti)	171	Sept. 26	88	2245
Sentenne & Green, New York, N. Y. "A Pleasant Duty." (For Whisky)	99	Jan. 31	86	635
Sentenne & Green, New York, N. Y. "Anticipation." (For Champagne)	100	Jan. 31	86	635
Sentenne & Green, New York, N. Y. "Honeymoon." (For Beer)	101	Jan. 31	86	635
Sentenne & Green, New York, N. Y. "Purity." (For Beer)	102	Jan. 31	86	635
Sentenne & Green, New York, N. Y. "Jolly Set." (For Beer)	103	Jan. 31	86	635
Sentenne & Green, New York, N. Y. "Picnic." (For Beer)	104	Jan. 31	86	635
Shields & Co., J. S., New York, N. Y. "Assortment No. 23." (For Straw and Crash Hats)	109	Feb. 28	86	1327
Shields & Co., J. S., New York, N. Y. "Assortment No. 17." (For Fur and Wool Hats)	110	Feb. 28	86	1327
Shields & Co., J. S., New York, N. Y. "Men's and Boys' Winter Caps." (For Caps)	164	Sept. 12	88	1901
Shields & Co., J. S., New York, N. Y. "Ladies' Millinery Trimmed Hats." (For Hats)	165	Sept. 12	88	1901
Shields & Co., J. S., New York, N. Y. "Fur and Wool Hats." (For Hats)	166	Sept. 12	88	1901
Shields & Co., J. S., New York, N. Y. "Fur and Wool Hats." (For Hats)	167	Sept. 12	88	1901
Shields & Co., J. S., New York, N. Y. "Fur and Wool Hats." (For Hats)	168	Sept. 12	88	1901
Shields & Co., J. S., New York, N. Y. "Fur and Wool Hats." (For Hats)	169	Sept. 12	88	1901
Singer Manufacturing Company, Elizabeth, N. J. "Mother's Helper." (For Sewing-Machines)	123	Apr. 11	87	183
Singer Manufacturing Company, Elizabeth, N. J. "The Tea Party." (For Sewing-Machines)	124	Apr. 11	87	183
Singer Manufacturing Company, Elizabeth, N. J., and New York, N. Y. "The Reader." (For Sewing-Machines)	185	Dec. 5	89	1865
Singer Manufacturing Company, Elizabeth, N. J., and New York, N. Y. "The Writer." (For Sewing-Machines)	186	Dec. 5	89	1865
Smith & Co., J. R., New York, N. Y. "Beefwine." (For a Wine)	116	Mar. 21	86	1807
Squire & Company, John P., Boston, Mass. "Squire's Pig Puzzle." (For Pig Products)	125	Apr. 18	87	361
Strauss, Ferdinand, New York, N. Y. "New York Gone Wild." (For Harmonicas)	173	Oct. 17	89	357
Supplee Hardware Company, Philadelphia, Pa. "Royal Blue." (For Certain Named Hardware and Cutlery)	137	May 16	87	1079
Traiser & Co., Henry, Boston, Mass. "A Winner." (For Cigars and Cigarettes)	141	May 30	87	1403
United States Playing Card Company, Cincinnati, Ohio. "No. 39 Trophy Whist." (For Playing-Cards)	174	Oct. 17	89	357
United States Playing Card Company, Cincinnati, Ohio. "Congress Playing Cards." (For Playing-Cards)	176	Oct. 31	89	709
Upmann, Carl, New York, N. Y. "Qualified Judges." (For Cigars)	127	Apr. 25	87	519
Upmann, Carl, New York, N. Y. "Upmann's Extra 5." (For Cigars)	146	June 27	87	2123
Werthern, Joseph von, San Francisco, Cal. "Laxative Fruit Juice." (For a Laxative)	188	Dec. 5	89	1865
Whitney & Co., V. V., Lincoln, Mass. "Rega Veta." (For a Brick and Stone Renovator and Preservative)	122	Apr. 4	87	1
Wilson, F. M., Selma, Ohio. "Wilson's Jersey Herd." (For Breeding Stock and Dairy Products)	159	Aug. 22	88	1337
Wood Printing Co., M. D., Philadelphia, Pa. "Dreydoppel's Lock." (For Soap)	158	Aug. 15	88	1163
Wood Printing Co., M. D., Philadelphia, Pa. "Dirt Must Go—Dreydoppel-Soap." (For Soap)	177	Oct. 31	89	709

DISCLAIMER.

Name, residence, and invention.	No.	Filed.	Official Gazette. Volume.	Page.
Way, John H., Philadelphia, Pa.; disclaimer filed by patentee. Chest and neck protector	593,954	Nov. 6, 1899	89	1145

ALPHABETICAL LIST OF INVENTIONS.

Invention.	Name.	No.	Date.	Monthly volume.		Official Gazette.	
				Specification.	Drawing.	Volume.	Page.
Abacus	J. P. Johnsen	637,964	Nov. 28	3680	773	89	1753
Abattoir-track switch	G. W. Whaley	631,687	Aug. 22	3627	817	88	1490
Abdominal bandage	S. E. Cook	618,843	Feb. 7	45	9	86	813
Abdominal bandage	J. Schwarz	623,566	Apr. 25	2526	581	87	543
Abdominal supporter	H. I. Gould	621,069	Mar. 14	1004	220	86	1707
Abrading and polishing roll	E. Kelly	631,507	Aug. 22	3309	752	88	1426
Abrading or polishing machine	C. Becker	629,885	Aug. 1	250	56	88	769
Abrasive purposes. Tool for	R. S. Papprill	635,346	Oct. 24	2520	586	89	546
Accordion	J. Galleazzi	619,558	Feb. 14	1381	318	86	1099
Accumulator-plate	H. F. Hobel	629,363	July 25	2625	610	88	566
Accumulator-plate	H. G. Osburn	625,938	May 30	3614	822	87	1481
Accumulator-plate separator	H. G. Osburn	631,810	Aug. 29	3872	864	88	1545
Accumulator-plates. Tool for making	W. Majert	634,469	Oct. 10	943	224	89	206
Accumulator pole-pieces. Terminal for	E. Andreas	635,287	Oct. 24	2421	564	89	528
Accumulators. Forming	C. Pollak	628,676	July 11	1388	------	88	288
Acetophenonphenetidid. Making	F. Valentiner	629,099	July 18	2154	------	88	458
Acetylene-generating apparatus	A. F. Chace	638,834	Dec. 12	1208	272	89	2122
Acetylene-generating apparatus	J. H. Ross	618,734	Jan. 31	3556	794	86	754
Acetylene-generator	A. Davis	626,272	June 6	89	24, 25	87	1632
Acetylene-generator	R. L. Doherty	630,195	Aug. 1	864	186	88	839
Acetylene-generator	J. G. A. Kitchen	620,148	Feb. 28	2481	563	86	1349
Acetylene-generators. Safety-escape and pressure-indicator for	E. F. Smith	621,623	Mar. 21	1993	445	86	1912
Acid and making same. Esters of para-oxy-meta-amidobenzoic	A. Einhorn	625,158	May 16	2200	------	87	1165
Acid and making same. Naphthylene-diamin-sulfonic	I. Levinstein and R. Herz	619,194	Feb. 7	757	------	86	960
Acid and making same. Nitrobenzyliden sulfonic	B. Homolka and A. Stock	622,854	Apr. 11	1209	------	87	249
Acid and making same. Oxyanthraquinone sulfo	M. H. Isler	621,679	Mar. 21	2113	------	86	1937
Acid and making same. Oxynaphtindophenolthio-sulfonic	H. A. Bernthsen	625,637	May 23	3046	------	87	1355
Acid. Apparatus for making phosphoric	J. Holtmann	629,996	Aug. 1	508	111	88	823
Acid. Apparatus for making sulfuric	A. C. Johnson	621,608	Mar. 21	1970	440	86	1907
Acid by electrolysis. Producing chromic	M. Le Blanc and H. Reisenegger	630,612	Aug. 8	1694	------	88	1067
Acid chromate of lead. Producing	C. Luckow	627,266	June 20	1938	------	87	2030
Acid-concentrating apparatus	O. Guttmann	627,749	June 27	2865	626, 627	87	2231
Acid derivatives. Making uric	F. Ach	632,828	Sept. 12	1183	------	88	1958
Acid ester and making same. Glycocolamidocinnamic	A. Einhorn	625,159	May 16	2201	------	87	1165
Acid. Ethyl ether of salicylo-carbonic	F. Hofmann	639,174	Dec. 12	1794	------	89	2236
Acid from alkaline acetates. Extracting acetic	H. Plater-Syberg	634,271	Oct. 3	569	140	89	114
Acid. Manufacturing para-guaiacol sulfonic	E. Barell	623,760	Apr. 25	2844	------	87	602
Acid-proof bag for fertilizers	W. Waring and J. E. Breckenridge	635,622	Oct. 24	3079	------	89	656
Acid to outflowing water. Device for admixing carbonic	L. Rühl	620,973	Mar. 14	825	181	86	1674
Acid. Xanthopurpurin sulfo	M. H. Isler	619,574	Feb. 14	1411	------	86	1104
Acids. Apparatus for making	J. V. Skoglund	640,037	Dec. 26	3414	782	89	2593
Acids. Obtaining silicic and hydro-fluo-silicic	E. Teisler	626,511	June 6	541	------	87	1718
Acids of aliphatic creosotesters. Making sulfo	G. Wendt and J. Lehmann	628,881	July 11	1748	------	88	360
Adding and recording machine	H. Hollerith	622,470	Apr. 4	491	117, 118	87	92
Adding and subtracting machine	A. R. Ball and A. T. Riggs	633,374	Sept. 19	2229	525	88	2172
Adding-machine	C. C. Clifford	627,571	June 27	2530	556, 557, 558	87	2163
Adding-machine	W. H. Davis	635,670	Oct. 24	3161	728	89	671
Adding-machine	T. Lanston	622,157	Mar. 28	3006	680, 681, 682, 683	86	2126
Adding-machine	E. Le Fevre	638,252	Dec. 5	97	22	89	1885
Adding-machine	J. Q. Long	630,904	Aug. 15	2196	500	88	1189
Adding-machine	J. A. Turck	631,345	Aug. 22	3003	681	88	1366
Adding-machine and register	J. A. Turck	622,091	Mar. 28	2879	648, 649	86	2100
Adding-machine operating device	J. H. Lovering	629,381	July 25	2656	617	88	572
Addition-proving device	C. H. Boehl	626,524	June 6	560	129	87	1722
Addresses to newspapers. Machine for pasting	P. P. and D. E. Keen	625,510	May 23	2827	643, 644	87	1311
Addressing-machine	W. T. Cole	620,280	Feb. 28	2705	620, 621	86	1391
Addressing-machine	A. Dick	629,241	July 18	2391	554	88	500
Addressing-machine	H. R. Grassmann	629,443	July 25	2770	643, 644, 645	88	596
Addressing-machine	F. H. Koehler	628,477	July 11	986	228, 229	88	211
Addressing machine. Envelop or wrapper	C. A. Belknap	628,385	July 4	813	188, 189, 190	88	156
Adhesive	G. J. Gruendler	633,834	Sept. 26	3054	------	88	2349

Alphabetical list of inventions—Continued.

Invention.	Name.	No.	Date.	Monthly volume.		Official Gazette.	
				Spec.	Dr'g.	Vol.	Page.
Adhesive and making same	J. W. Wachter	634,047	Oct. 3	113	------	89	26
Adhesive articles. Case or holder for	W. Pedrick	635,582	Oct. 24	3002	689	89	640
Adhesive compound	J. Evershed	629,006	July 18	1979	------	88	422
Adjustable bracket	J. C. Carpenter	623,517	Apr. 25	2432	557	87	525
Adjustable bracket	R. Edmeades	624,001	May 2	86	18	87	719
Adjustable chair	D. E. Carter	617,638	Jan. 10	1476	337	86	307
Adjustable chair	J. F. Walton	635,452	Oct. 24	2780	635	89	598
Adjustable press	W. C. and J. P. Kelly	631,573	Aug. 22	3441	777	88	1453
Adjustable seat	T. B. Mason	633,021	Sept. 12	1520	354	88	2021
Adjustable stand for supporting and displaying purposes.	C. P. Hornback	626,541	June 6	590	136	87	1728
Adjustable stand or chair for artisans	J. Stone	624,567	May 9	1154	258	87	946
Adjustable table	P. A. Congour	632,804	Sept. 12	1136	262	88	1948
Adjusting mechanism	J. Kennedy	634,088	Oct. 3	183	46	89	41
Adjusting-washer	R. Janney	628,941	July 18	1868	432	88	400
Advertisements, signs, &c. Electrical apparatus for exhibiting and changing	A. D. Douglass	634,403	Oct. 3	818	198	89	163
Advertising and decorative apparatus. Illuminative	T. P. Martin	625,049	May 16	2009	452, 458	87	1131
Advertising and display card	H. P. Kaufmann	639,679	Dec. 19	2760	637	89	2443
Advertising apparatus	S. H. Ayer	623,865	Apr. 25	3081	710	87	648
Advertising apparatus	T. G. Daly	623,889	Apr. 25	3131	721, 722	87	657
Advertising apparatus	G. L. Farwell	636,783	Nov. 14	1070	228	89	1165
Advertising apparatus	W. H. Gilman	636,721	Nov. 7	901	200	89	1107
Advertising apparatus	T. Hansen	619,301	Feb. 14	957	217	86	1016
Advertising apparatus	I. MacFarland	633,871	Sept. 26	3123	725	88	2362
Advertising apparatus	J. L. Males	622,928	Apr. 11	1344	309	87	274
Advertising apparatus	F. C. Morton	639,598	Dec. 19	2594	595, 596, 597	89	2412
Advertising apparatus	J. C. Powell	636,553	Nov. 7	567	125, 126	89	1036
Advertising apparatus	C. A. Rollason, W. H. Fletcher, and G. R. Rollason.	616,975	Jan. 3	204	46	86	40
Advertising apparatus	C. Sonneborn and P. R. Kammerer	634,248	Oct. 3	522	132	89	105
Advertising apparatus	H. Woinke	626,952	June 13	1384	304	87	1900
Advertising apparatus	L. W. Yaggy	620,689	Mar. 7	266	54, 55	86	1554
Advertising apparatus. Railway	C. J. Feder	622,185	Mar. 28	3064	694	86	2138
Advertising apparatus. Railway	C. J. Feder	622,186	Mar. 28	3066	695	86	2138
Advertising appliances, &c. Means or apparatus for producing and exhibiting animated or changing pictures on	W. Friese-Greene	623,242	Apr. 18	1934	443	87	405
Advertising attachment for music-boxes	R. L. Stanton	624,397	May 2	824	186	87	859
Advertising-cabinet	W. H. Hall	625,105	May 16	2118	481	87	1150
Advertising-cabinet and bookcase. Combined	W. F. Patton	632,143	Aug. 29	4478	1008	88	1666
Advertising device	S. H. Brown and W. G. Lincoln	628,194	July 4	437	104	88	88
Advertising device	E. Cherry	622,416	Apr. 4	387	89	87	72
Advertising device	C. T. Dukelow	637,988	Nov. 28	3722	783	89	1761
Advertising device	W. A. Frazee and E. Bersbach	624,639	May 9	1269	284	87	968
Advertising device	H. A. Goebler	620,868	Mar. 7	619	135	86	1624
Advertising device	F. W. Hayward	623,664	Apr. 25	2693	617	87	573
Advertising device	C. S. Stafford	619,052	Feb. 7	486	102	86	904
Advertising device. Aerial	J. H. Menkens	635,697	Oct. 24	3204	738	89	680
Advertising device. Automatic	E. J. Howard	636,337	Nov. 7	180	40	89	957
Advertising device. Electric	J. Scott	638,479	Dec. 5	562	117	89	1974
Advertising hitching-post	H. H. Coleman and H. E. Ritchey	637,322	Nov. 21	2126	458	89	1385
Advertising-machine. Electrical	H. W. Cox	622,607	Apr. 4	756	175, 176	87	144
Advertising-machine. Electrical	H. W. Cox	622,608	Apr. 4	757	176	87	144
Advertising means	A. L. E. Caspar	630,486	Aug. 8	1464	327	88	1022
Advertising. Means for	W. J. Hawkins and R. H. Wright	620,033	Feb. 21	2273	515	86	1294
Advertising medium	J. A. Aniello	625,530	May 23	2855	650	87	1316
Advertising novelty. Card-	W. P. Strader	636,581	Nov. 7	622	137	89	1048
Advertising or display card	M. Switzer	625,991	May 30	3723	844	87	1503
Advertising purposes. Apparatus for	A. M. Marsden	623,486	Apr. 18	2371	545, 546	87	494
Advertising purposes. Apparatus for	J. Warrick	623,641	Apr. 25	2656	607, 608	87	565
Advertising sample-exhibitor	D. C. Meehan	633,963	Sept. 26	3282	765	88	2393
Advertising-wagon	L. L. Cornell	627,055	June 13	1564	342	87	1935
Aerated-water fountain	E. O. Halvorson	636,226	Oct. 31	4262	979	89	901
Aerating apparatus. Liquid-	H. Hirzel	630,506	Aug. 8	1501	336	88	1028
Aerating liquids, &c., with carbon dioxid. Apparatus for	E. Koenig and M. L. Erlanger	625,109	May 16	2123	482	87	1150
Aerating water in bottles. Means or apparatus for	H. V. R. Read	620,963	Mar. 14	803	177	86	1670
Aeration of liquids in bottles. Means for effecting	K. S. Murray	629,752	July 25	3343	780, 781	88	705
Agitating apparatus	C. S. Wheelwright	626,950	June 13	1380	303	87	1899
Agricultural boiler. Convertible	H. M. Crippen	619,283	Feb. 14	927	209, 210	86	1010
Agricultural implement	S. L. Allen	618,316	Jan. 24	2780	616	86	591
Agricultural implement	M. J. Anderson	636,703	Nov. 7	854	190	89	1096
Agricultural implement	R. Javitch	628,887	July 11	1756	411	88	362
Agricultural implement	E. E. Whipple	636,878	Nov. 14	1237	267	89	1198
Agricultural implement	E. E. Whipple	637,190	Nov. 14	1860	400, 401	89	1317
Agricultural-implement tooth	J. B. Wilson	623,390	Apr. 18	2206	506	87	460
Agricultural implements. Draft device for	W. T. M. Brunnemer	631,983	Aug. 29	4169	937, 938	88	1603
Agricultural implements. Spring lifting device for	W. T. M. Brunnemer	631,416	Aug. 22	3137	711	88	1392
Agricultural implements. Supporting attachment for	E. E. Whipple	636,477	Nov. 7	422	94	89	1006
Agricultural machine	J. J. A. Morath	635,501	Oct. 24	2858	652, 653	89	612
Agricultural-tool support	R. Rasmussen	635,591	Oct. 24	3019	693	89	642

Alphabetical list of inventions—Continued.

Invention.	Name.	No.	Date.	Monthly volume. Spec.	Monthly volume. Dr'g.	Official Gazette. Vol.	Official Gazette. Page.
Air-accumulator	H. H. Hougland	639,047	Dec. 12	1574	360	89	2193
Air and gas engine	J. W. Eisenhuth	620,554	Feb. 28	3190	730, 731, 732	86	1484
Air and gas engine	E. J. Woolf	627,219	June 20	1843	403, 404	87	2010
Air and gas engine	E. J. Woolf	627,220	June 20	1848	404, 405	87	2011
Air and gases and sorting same. Apparatus for separating solid impurities from	J. P. and P. van Gelder	621,651	Mar. 21	2049	457, 458	86	1923
Air and utilization thereof. Compression of	E. E. Pettee and J. J. McCutchan	637,659	Nov. 21	3113	645	89	1619
Air and utilization thereof. Compression of	E. E. Pettee and J. J. McCutchan	637,661	Nov. 21	3116	646	89	1620
Air and water tight covering for vessels	A. Schmalenbach	631,907	Aug. 29	4028	902	88	1576
Air. Apparatus for simultaneously purifying, cooling, and regulating moisture of	E. Gates	636,256	Nov. 7	55	12, 13	89	934
Air bed or cushion	J. J. Lane	622,339	Apr. 4	71	17	87	17
Air-brake	C. L. Ansley and J. T. Topham	621,779	Mar. 28	2309	519	86	1989
Air-brake	C. F. Bane	622,750	Apr. 11	1019	237, 238	87	214
Air-brake	E. Bartholomew	629,708	July 25	3253	757, 758, 759, 760	88	688
Air-brake	M. Corrington	636,954	Nov. 14	1395	297	89	1229
Air-brake	C. N. Dutton	634,723	Oct. 10	1393	328, 329	89	294
Air-brake	C. N. Dutton	634,724	Oct. 10	1397	329, 330	89	295
Air-brake	E. A. Hauerwas	618,204	Jan. 24	2585	571	86	554
Air-brake	W. B. Mann	630,376	Aug. 8	1231	270	88	981
Air-brake	J. J. Nef	637,646	Nov. 21	3089	639	89	1615
Air-brake	J. J. Nef	637,647	Nov. 21	3091	639, 640	89	1615
Air-brake	J. Shelton	638,527	Dec. 5	649	134, 135	89	1990
Air-brake	J. Shourek	636,858	Nov. 14	1184	257, 258, 259	89	1188
Air-brake apparatus. Street-car	N. A. Christensen	625,540	May 23	2876	654	87	1321
Air-brake. Automatic	W. H. Clarke	635,995	Oct. 31	3807	876	89	811
Air-brake coupling	F. W. Harper	639,851	Dec. 26	3079	708	89	2525
Air-brake emergency-recorder	W. E. Symons and G. W. Wildin	627,661	June 27	2713	594	87	2199
Air-brake hose-coupling	T. M. Hall	619,169	Feb. 7	712	153	86	950
Air-brake hose-coupling	H. Shepherd and D. Delaria	635,402	Oct. 24	2650	612	89	572
Air-brake hose-coupling attachment	R. A. Dutton	629,987	Aug. 1	485	106	88	818
Air-brake hose-coupling. Automatic	H. E. Parkinson	637,021	Nov. 14	1530	329	89	1256
Air-brake mechanism. Air-strainer and dirt-ejector for	T. H. Haberkorn	621,075	Mar. 14	1014	223	86	1709
Air-brake mechanism. Automatic	S. W. Robinson and E. A. Hitchcock	622,020	Mar. 28	2763	623	86	2077
Air-brake-operating apparatus	W. B. Mann	630,381	Aug. 8	1245	272	88	983
Air-brake-operating apparatus	W. B. Mann	630,382	Aug. 8	1248	273	88	983
Air-brake pumps. Combined valve and governor for	N. A. Christensen	635,424	Oct. 24	2724	625	89	586
Air-brake safety attachment	A. C. Rumble	624,103	May 2	291	60	87	757
Air-brake safety-joint	A. Kholodkowsky	627,337	June 20	2072	457	87	2057
Air-brake signal	J. H. Nethercott and J. W. Hersch	630,002	Aug. 1	515	113	88	825
Air-brake. Vehicle	R. E. Wynn	619,381	Feb. 14	1085	244, 245	86	1042
Air-brakes. Means for preventing improper manipulation of	W. B. Potter and F. E. Case	636,552	Nov. 7	565	125	89	1035
Air cleansing and cooling device	J. McCreery	626,388	June 6	334	77	87	1678
Air cleansing and cooling device	J. McCreery	631,377	Aug. 22	3062	693	88	1377
Air compressing and cooling apparatus	R. Berg	626,883	June 13	1270	277, 278	87	1877
Air-compressing apparatus	S. Broichgans	635,419	Oct. 24	2713	622	89	584
Air-compressing apparatus	C. A. Lowell and E. R. Brown	618,959	Feb. 7	295	64	86	868
Air-compressing apparatus. Hydraulic	C. H. Taylor	618,243	Jan. 24	2653	587	86	566
Air-compressing engine. Direct-acting	P. Brotherhood	634,389	Oct. 3	793	190, 191	89	157
Air compressing, sterilizing, and purifying apparatus.	A. Fowler and A. J. Harpole	631,868	Aug. 29	3965	887	88	1565
Air-compressor	H. E. Anderson	620,822	Mar. 7	526	112	86	1605
Air-compressor	S. A. Donnelly	636,643	Nov. 7	743	162, 163	89	1072
Air-compressor	C. F. Du Bois	631,701	Aug. 22	3652	823	88	1495
Air-compressor	R. L. Dunn	630,495	Aug. 8	1478	331, 332	88	1024
Air-compressor	J. H. Hopps	638,460	Dec. 5	530	108, 109	89	1968
Air-compressor	P. H. Montague	631,994	Aug. 29	4189	942	88	1607
Air-compressor	J. P. Simmons	635,516	Oct. 24	2887	659	89	618
Air-compressor	J. P. Simmons	635,517	Oct. 24	2888	659	89	618
Air-compressor	G. W. Tolle	636,013	Oct. 31	3838	883	89	816
Air-compressor. Automatic-operating	G. E. Drum	639,539	Dec. 19	2486	573, 574	89	2388
Air-compressor. Compound	G. W. Wallick	624,998	May 16	1916	430	87	1113
Air-compressor. Hydraulic	J. Liming	624,830	May 9	1630	369	87	1040
Air-compressor. Hydraulic	L. E. Mitchell	637,144	Nov. 14	1777	381	89	1302
Air-compressor. Hydraulic	A. A. E. Sterzing	618,242	Jan. 24	2652	586	86	566
Air-compressor. Tide-power	C. M. Johnson	639,735	Dec. 26	2861	659, 660	89	2482
Air-compressor unloading means	C. Cummings	635,667	Oct. 24	3153	727	89	669
Air-conveying conduit. Liquefied	E. C. Hargrave	625,759	May 30	3270	741	87	1416
Air cooling and cleansing device	J. McCreery	626,390	June 6	337	78	87	1679
Air-cooling device	T. H. Gore	637,383	Nov. 21	2250	484	89	1410
Air-coupling hanger	J. C. Look	628,586	July 11	1197	280	88	251
Air-cushion	R. Aronstein	638,374	Dec. 5	362	75	89	1935

Alphabetical list of inventions—Continued.

Invention.	Name.	No.	Date.	Monthly volume. Spec.	Monthly volume. Dr'g.	Official Gazette. Vol.	Official Gazette. Page.
Air-drill	A. P. Schmucker	633,661	Sept. 26	2759	641, 642	88	2288
Air for motive purposes. Utilization of compressed	E. E. Pettee and J. J. McCutchan	637,660	Nov. 21	3114	646	89	1619
Air forcing or compressing device	F. W. Ensign	624,002	May 2	87	19	87	719
Air from tins, bottles, jars, &c. Means for excluding	A. Dunhill	619,878	Feb. 21	2011	457	86	1245
Air goods	A. A. Young	634,788	Oct. 10	1492	351	89	313
Air-heater	E. R. Waterman and R. R. Morison	636,090	Oct. 31	4017	918	89	851
Air heating and agitating apparatus	L. P. Hager	622,424	Apr. 4	399	92	87	74
Air heating and agitating apparatus	E. F. Porter	622,863	Apr. 11	1222	284	87	251
Air heating and agitating apparatus	E. F. Porter	638,272	Dec. 5	130	30	89	1891
Air-heating apparatus	J. Higginbottom	619,483	Feb. 14	1266	289, 290	86	1077
Air-liquefying apparatus	O. P. Ostergren and M. Burger	621,536	Mar. 21	1850	411	86	1884
Air mattress or cushion	E. Fournier	624,638	May 9	1268	283	87	968
Air moistener and attemperator	W. H. Prinz	618,615	Jan. 31	3340	742, 743	86	711
Air motor apparatus. Compressed	A. Sundh	639,947	Dec. 26	3246	744	89	2558
Air or gas compressing pump	H. E. Ludwig	637,516	Nov. 21	2479	537	89	1455
Air. Process of and apparatus for simultaneously purifying, cooling, and regulating moisture of	E. Gates	636,255	Nov. 7	46	11,12	89	934
Air purifying and cooling apparatus	S. and F. D. Bangs	639,497	Dec. 19	2417	558	89	2375
Air-purifying and ventilating system	W. S. Whitney	616,997	Jan. 3	250	57	86	50
Air-register or ventilator	S. Tuttle	618,590	Jan. 31	3302	734	86	705
Air-supplying apparatus	F. A. Baynes	620,830	Mar. 7	540	115, 116	86	1608
Air-tight lid	F. W. Forster	616,910	Jan. 3	85	17	86	18
Air under pressure. Apparatus for cooling and purifying	J. Geisenberger	638,327	Dec. 5	233	54	89	1916
Alarm: *See* Beer-cask alarm. Bicycle-alarm. Boiler-alarm. Burglar-alarm. Electric alarm. Elevator-alarm. Engineer's alarm. Fire-alarm. Fire and burglar alarm. Heat-alarm. Overflow-alarm. Telephone time-alarm. Time-alarm.							
Alarm	A. N. Pierman	620,958	Mar. 14	785	172	86	1667
Alarm	L. Schiff	631,230	Aug. 15	2779	629	88	1303
Alarm device	W. C. Brumder and J. Rogginger	630,857	Aug. 15	2113	479	88	1172
Alarm-lock	H. E. Carlton	621,793	Mar. 28	2328	523	86	1993
Alarm-lock	W. C. Leet	624,345	May 2	732	163	87	840
Alarm-lock	D. L. Taylor	632,328	Sept. 5	222	52	88	1751
Alarm lock. Burglar	E. M. Wagner	632,664	Sept. 5	839	196, 197	88	1875
Alarm mechanism	J. M. Butcher	636,487	Nov. 7	441	97	89	1010
Alarm mechanism	W. E. Coles	629,771	Aug. 1	19	5	88	725
Alarm mechanism	A. S. Truscott	623,747	Apr. 25	2821	646	87	598
Alarm mechanism for bank-vaults or prison-cells	H. C. Wybro and W. W. Danley	627,037	June 13	1528	333, 334	87	1928
Alarm system and apparatus for testing same. Electric	E. F. Woodman	637,914	Nov. 28	3591	752, 753	89	1737
Alarm system. Electric	R. R. May	636,910	Nov. 14	1307	280	89	1212
Alarms. Device for preventing false	T. W. Yale	635,950	Oct. 31	3707	856	89	790
Alarms through agency of smoke or other gases. Means for giving	H. C. Baer	632,546	Sept. 5	632	147	88	1831
Albuin	F. H. Gilson	634,294	Oct. 3	611	150	89	122
Album. Rotary	G. Heimlich	623,603	Apr. 25	2594	593	87	555
Album with detachable pictorial post-cards	J. Philipp	632,788	Sept. 12	1107	256	88	1942
Alcohol from aldehyde. Purifying raw	C. Killing	617,400	Jan. 10	1045	237	86	222
Alcohol from casks. Apparatus for recovering waste	M. Hickey	639,980	Dec. 26	3319	760, 761	89	2574
Alcohol from liquor-casks. Apparatus for recovering waste	M. Hickey	639,979	Dec. 26	3318	760	89	2573
Alcohol. Manufacture of	A. Collette and A. Boidin	621,796	Mar. 28	2342	526	86	1996
Alcohol. Material for debasing	J. E. Lang	618,207	Jan. 24	2589	------	86	554
Alcoholic liquids. Improving	W. G. Day and T. A. Bryan	625,650	May 23	3067	698	87	1359
Alcoholic liquids. Purifying	J. T. Hewitt	625,108	May 16	2122	------	87	1150
Alining and leveling device and method	J. V. Hulse	631,114	Aug. 15	2592	585, 586	88	1265
Alkali aluminates. Making	H. S. Blackmore	618,772	Jan. 31	3618	------	86	767
Alkali nitrates. Decomposing	H. K. Baynes	632,394	Sept. 5	337	76	88	1773
Alkali metals. Process of and apparatus for manufacturng	C. E. Acker	623,691	Apr. 25	2744	629	87	587
Alkali salts. Method of and apparatus for producing	C. Kellner	631,468	Aug. 22	3233	734	88	1411
Alkalies. Packing caustic	H. Precht	624,972	May 16	1878	422	87	1105
Alkalies. Process of and apparatus for making caustic	C. E. Acker	623,693	Apr. 25	2749	630	87	584
Alkalies. Purifying caustic	W. Lang, C. Pistor, and M. Otto	623,918	Apr. 25	3182	----	87	667
Alkaline silicate. Making soluble	F. Henkel	633,841	Sept. 26	3063	------	88	2350
Alkaloid-casein compounds. Making	F. Thomas	626,110	May 30	4009	------	87	1553
Alkyl derivative of uric acid and obtaining same	E. Fischer	621,804	Mar. 28	2357	------	86	1998
Alkyl derivative of uric acid. Making	E. Fischer	621,805	Mar. 28	2358	------	86	1999
Alkyl-hypoxanthin and making same	E. Fischer	618,045	Jan. 17	2258	------	86	477
Alkyl-purin and making same	E. Fischer	617,985	Jan. 17	2134	------	86	456
Alkyl-uric acid. Preparing	F. Ach	631,761	Aug. 22	3784	------	88	1515
Alkyl-xanthin and making same	F. Ach	631,759	Aug. 22	3777	------	88	1515
Alkyl-xanthin derivative and making same	F. Ach	631,758	Aug. 22	3773	------	88	1514
Alkylized xanthin and making same	F. Ach	631,760	Aug. 22	3781	------	88	1515
Alloy	W. D. Allen	624,605	May 9	1213	------	87	957
Alloy	J. C. Bull	632,233	Sept. 5	10	------	88	1711
Alloy	R. C. Carpenter	632,443	Sept. 5	425	------	88	1790
Alloy	W. Van Wart, F. W. Popp, and J. J. Bradley.	633,743	Sept. 26	2910	------	88	2318
Alloy. Aluminium	W. A. McAdams	639,600	Dec. 19	2600	------	89	2413
Alloy for bearings, &c	H. G. Torrey	635,615	Oct. 24	3062	------	89	651

Alphabetical list of inventions—Continued.

Invention.	Name.	No.	Date.	Monthly volume.		Official Gazette.	
				Spec.	Dr'g.	Vol.	Page.
Alloy. Metallic	J. P Fullerton	623,209	Apr. 18	1878	------	87	394
Alloy of aluminium	L. Mach	629,084	July 18	2126	------	88	452
Alloy of iron and nickel and articles made therefrom	C. E. Guillaume and L. C. Dumas	626,655	June 6	790	------	87	1768
Alloys. Manufacture of	C. E. Guillaume and L. C. Dumas	626,609	June 6	695	------	87	1749
Alloys. Process of and apparatus for manufacturing metallic	C. E. Acker	623,692	Apr. 25	2746	629	87	583
Aluminium for electroplating. Preparation of	F. S. Loeb	630,246	Aug. 1	955	------	88	911
Aluminium from its compounds. Reducing	G. Schwahn	626,635	June 6	743	171, 172	87	1758
Aluminium. Reducing	F. A. Gooch	631,253	Aug. 15	2838	641	88	1315
Amalgam-washing chamber	J. F. Kelly	627,193	June 20	1801	395	87	2002
Amalgamating apparatus	H. S. Cope	635,236	Oct. 17	2321	542	89	492
Amalgamating apparatus	V. Hanson	618,938	Feb. 7	234	53	86	850
Amalgamating-machine	S. Moreau	628,108	July 4	291	68	88	57
Amalgamating ores of gold and silver	J. E. Sutphen	622,295	Apr. 4	181	39	87	34
Amalgamation of gold or other ores. Apparatus for the	A. Bargigli	635,119	Oct. 17	2122	496, 497	89	454
Amalgamator	W. M. Fuller	624,894	May 9	1735	392	87	1060
Amalgamator	J. M. Holmes	636,666	Nov. 7	792	175	89	1082
Amalgamator	A. H. Jocelyn	620,328	Feb. 28	2799	640	86	1409
Amalgamator	A. H. Jocelyn	621,092	Mar. 14	1045	229	86	1715
Amalgamator	J. N. Marion	619,199	Feb. 7	764	166	86	961
Amalgamator	L. C. Park	637,482	Nov. 21	2416	524	89	1443
Amalgamator	E. J. Verrue	625,909	May 30	3570	810	87	1472
Amalgamator	G. W. Williams	621,985	Mar. 28	2711	612	86	2066
Amalgamator. Concentrating-	J. L. Wees	632,032	Aug. 29	4262	958	88	1622
Amalgamator. Ore-	J. E. Sutphen	628,499	July 11	1023	238	88	217
Amidoammonium base and making same. Aromatic	E. König and F. Scholl	618,688	Jan. 31	3476	------	86	739
Amido malonic ester and making same	R. Blank	620,562	Mar. 7	7	------	86	1504
Amido malonic esters. Obtaining indoxylic compounds of	R. Blank	620,563	Mar. 7	8	------	86	1504
Amidophenols. Making	H. R. Vidal	618,809	Jan. 31	3689	------	86	781
Ammonia. Apparatus for testing liquid anhydrous	F. W. Frerichs	635,535	Oct. 24	2918	666	89	625
Ammonia-making apparatus	C. Fellner and J. Steimle	635,308	Oct. 24	2457	571, 572	89	534
Ammonium nitrate. Making	T. Fairley	623,893	Apr. 25	3138	723	87	659
Ammunition-belt	F. M. Garland	623,243	Apr. 18	1935	444	87	405
Ammunition. Carrier for small-arms fixed	T. C. Orndorff	639,145	Oct. 17	2173	506	89	464
Ammunition-hoist	J. Krone	624,826	May 9	1617	367, 368	87	1038
Ammunition-hoist for vessels of war	J. Krone	636,534	Nov. 7	539	119	89	1030
Amusement apparatus	G. T. Woods	639,692	Dec. 19	2783	642	89	2449
Amusement device	G. C. Tilyou and J. M. A. Lacomme	632,597	Sept. 5	702	162, 163	88	1845
Anchor	I. Crocker	626,224	June 6	16	4	87	1618
Anchor	T. E. Norton	625,192	May 16	2254	512	87	1175
Anchor. Stockless	P. J. Ryan	638,147	Nov. 28	4049	854	89	1824
Andiron, grate, and fender. Combined	F. A. Hickson and W. J. Wood	630,695	Aug. 8	1837	414	88	1093
Anesthetic. Local	G. Pertsch	628,489	July 11	1007	------	88	215
Anesthetics. Device for administering	R. E. Mercer	628,484	July 11	1000	233	88	213
Angle-bar	J. C. Towell	623,191	Apr. 18	1851	424	87	388
Animal catching and holding tool	H. G. Metzig	623,612	Apr. 25	2609	597	87	557
Animal-coupling	C. Schmahl	627,709	June 27	2796	612	87	2215
Animal-shears	R. D. Dixon	622,332	Apr. 4	235	53	87	45
Animal-shears	W. Hume	636,146	Oct. 31	4113	941	89	871
Animal-tail holder	G. W. Noland	630,920	Aug. 15	2226	507	88	1194
Animal-trap	C. H. Boettcher	623,870	Apr. 25	3093	712	87	650
Animal-trap	C. C. Bowen and C. R. Twitchell	634,844	Oct. 10	1597	374, 375	89	334
Animal-trap	C. C. Bowen and C. R. Twitchell	634,845	Oct. 10	1599	375	89	335
Animal-trap	C. C. Bowen and C. R. Twitchell	634,846	Oct. 10	1601	375, 376	89	335
Animal-trap	T. H. Donlon	620,753	Mar. 7	410	84	86	1581
Animal-trap	F. W. Flakker	639,163	Dec. 12	1772	410	89	2232
Animal-trap	W. R. Griffin	631,790	Aug. 29	3845	857	88	1540
Animal-trap	G. U. Hall	630,346	Aug. 8	1172	257	88	970
Animal-trap	T. I. Hall	619,566	Feb. 14	1398	321	86	1101
Animal-trap	W. H. Harden	632,112	Aug. 29	4420	993	88	1653
Animal-trap	F. J. Heda	619,175	Feb. 7	724	157	86	953
Animal-trap	J. Herfert	637,783	Nov. 28	3340	699	89	1684
Animal-trap	J. H. Hoover	617,160	Jan. 3	578	136	86	113
Animal-trap	C. O. Hulberg	618,676	Jan. 31	3455	771	86	735
Animal-trap	J. J. Johnson	636,901	Nov. 14	1280	276	89	1207
Animal-trap	S. R. Kagarier	639,246	Dec. 19	1947	449	89	2280
Animal-trap	C. C. King	638,847	Dec. 12	1228	277	89	2125
Animal-trap	E. L. Lewis	624,665	May 9	1307	292	87	976
Animal-trap	J. H. Mackintosh	622,700	Apr. 11	943	218	87	199
Animal-trap	E. A. Mathias	622,057	Mar. 28	2823	636	86	2089
Animal-trap	J. B. Morgan	628,831	July 11	1662	386	88	345
Animal-trap	S. Rückersberg	638,476	Dec. 5	556	115	89	1973
Animal-trap	J. B. Stout	639,310	Dec. 19	2061	474	89	2304
Animal-trap	W. S. Vankirk	636,870	Nov. 14	1218	263	89	1195
Animal-trap	J. Wadsworth	628,969	July 18	1913	445	88	409
Animal-trap	E. H. Walker	634,489	Oct. 10	977	234	89	213
Animal-trap. Self-setting	S. Graham	625,256	May 16	2375	538	87	1198
Animals. Apparatus for treating diseased	H. Hertz	637,389	Nov. 21	2259	486, 487	89	1412
Animals' noses. Machine for tarring	R. W. Barnes	624,731	May 9	1425	320, 321	87	1000
Ankle-joint. Artificial	C. H. Doerflinger, J. Burg, and J. Davis.	619,731	Feb. 21	1730	394	86	1190
Annealing-box	E. J. Francis and O. H. Burgham	623,146	Apr. 18	1764	405	87	372
Annealing-furnace	A. Laughlin	629,510	July 25	2919	679	88	624
Annealing-furnace	W. and J. C. Swindell	624,401	May 2	834	188	87	861
Annealing furnace. Wire-	E. E. Douglass	632,836	Sept. 12	1196	273	88	1960
Annealing open-hearth or Bessemer steel	E. D. Wassell	622,301	Apr. 4	188	41	87	35

Alphabetical list of inventions—Continued.

Invention.	Name.	No.	Date.	Monthly volume.		Official Gazette.	
				Spec.	Dr'g.	Vol.	Page.
Annealing-pot filling apparatus	C. H. Shaffer	627,944	June 27	3216	704, 705	87	2302
Annealing wire or rods. Apparatus for electrically	J. H. Preston	626,769	June 13	1006	226, 227	87	1827
Annular cutter	C. H. Waymoth	632,604	Sept. 5	716	165	88	1848
Annunciator	S. B. Fowler	620,577	Mar. 7	45	9	86	1511
Annunciator-drop. Automatic indicating	J. Hewitt and C. Gapen	620,319	Feb. 28	2785	637	86	1407
Annunciator drop device	W. O. Meissner	617,702	Jan. 10	1597	361	86	330
Annunciator. Electric	C. E. Scribner	634,095	Oct. 3	195	49	89	43
Annunciator. Electric	H. C. Thomson	627,606	June 27	2616	576	87	2180
Annunciator-indicator. Self-setting	F. C. Van Dyck, Jr	620,998	Mar. 14	869	189	86	1683
Anode	J. T. Morrow	621,121	Mar. 14	1102	240	86	1726
Anode	A. L. Walker	633,056	Sept. 12	1578	368	88	2033
Ant-trap	B. B. Cash and J. E. Stephens	622,992	Apr. 11	1451	334	87	296
Anthraquinone and making same. Halogen derivative of	O. Bally	631,606	Aug. 22	3498	------	88	1465
Anthraquinone derivative and making same	O. Bally	617,981	Jan. 17	2130	------	86	455
Anthraquinone derivative and making same	O. Bally	631,608	Aug. 22	3500	------	88	1465
Anthraquinone derivative and making same. Dibrom	O. Bally	631,607	Aug. 22	3500	------	88	1465
Antifreezing apparatus	C. L. Brown	623,979	May 2	44	9	87	710
Antifriction-roller	H. M. Le Duc	624,506	May 9	1030	232	87	921
Antirust preparation	S. P. Frost	621,057	Mar. 14	988	------	86	1704
Antiseptic-cabinet	C. A. Bradley	624,747	May 9	1455	328, 329	87	1006
Antiseptic composition	C. A. O. Rosell	622,713	Apr. 11	963	------	87	203
Antiseptic compound	G. L. Schaefer	636,215	Oct. 31	4240	------	89	897
Antiseptic device for sound-transmitter mouthpieces.	G. W. Van Alstine	635,209	Oct. 17	2277	531	89	483
Antiseptic device for sound-transmitter mouthpieces.	G. W. Van Alstine	637,538	Nov. 21	2527	547	89	1464
Antitacks. Machine for making	M. E. Biersach	630,845	Aug. 15	2091	473, 474	88	1168
Anvil	D. Buel	630,323	Aug. 8	1106	241	88	955
Anvil attachment	H. W. Dyer	637,241	Nov. 21	1973	422	89	1355
Anvil, vise, and drill. Combined	J. W. Conchar	624,910	May 16	1765	398	87	1084
Apparel appurtenance	W. J. Worden	627,949	June 27	3223	706	87	2303
Apparel. Balanced floating	G. D. Burton	636,893	Nov. 14	1266	272	89	1204
Apparel. Wearing	C. E. Fosburgh	629,900	Aug. 1	283	64	88	776
Applicator	W. A. Morrison	634,363	Oct. 3	749	179	89	150
Apron-fastener	H. K. Custer	631,005	Aug. 15	2382	542	88	1225
Aqueduct	C. N. Dutton	621,470	Mar. 21	1724	383, 384, 385	86	1861
Aqueduct	C. N. Dutton	626,321	June 6	192	47, 48	87	1650
Arc-rupturing device	E. J. Berg	630,318	Aug. 8	1096	239	88	953
Arch-center	J. S. White	629,636	July 25	3134	730	88	665
Architrave, arch, and lintel	E. M. Hackett	627,849	June 27	3041	664	87	2264
Arm-rest	I. W. Stephens	621,507	Mar. 21	1794	399	86	1873
Armature	H. G. Reist	630,930	Aug. 15	2242	511	88	1198
Armature for dynamo-electric machines	S. Bergmann	635,739	Oct. 31	3305	763	89	712
Armature for dynamo-electric machines	E. D. Priest	618,727	Jan. 31	3544	792	86	752
Armature for dynamo-electric machines	H. H. Wait	628,050	July 4	166	35	88	34
Armatures. Space-block for laminated	H. Geisenhöner	631,786	Aug. 29	3838	854	88	1539
Armor-plate	C. F. Flodquist	619,295	Feb. 14	949	215	86	1014
Armor-plate	O. F. Leibert	621,259	Mar. 14	1340	297, 298	86	1774
Armor-plates. Carburizing	J. S. Unger	634,251	Oct. 3	526	133	89	106
Article-holder	P. Reibestein	625,805	May 30	3374	766	87	1435
Articles from elevated positions. Device for removing	S. M. Wright	632,330	Sept. 5	225	52	88	1751
Artillery shield. Light-	C. H. Frybarger	624,640	May 9	1270	284	87	968
Artists' tablets. Folding support or holder for	W. C. Shimoneck	622,640	Apr. 4	829	191	87	157
Ash-can	T. F. Burke	634,551	Oct. 10	1090	258	89	235
Ash-can	E. Nathan	617,445	Jan. 10	1127	257	86	238
Ash-ejector	H. See	631,825	Aug. 29	3891	869	88	1549
Ash-pan	W. C. Holtsclaw	639,729	Dec. 26	2849	656	89	2480
Ash-pan	H. W. Huff and J. M. Lotspeich	639,392	Dec. 19	2232	517	89	2339
Asparagus-bunching apparatus	G. R. Houghton	638,461	Dec. 5	532	109	89	1969
Asphalt apparatus	F. Burger	620,414	Feb. 28	2932	672, 673	86	1434
Asphalt from petroleum residue. Manufacturing	J. W. Hayward	634,818	Oct. 10	1547	364	89	323
Asphalt. Machine and apparatus for extracting and refining	A. F. L. Bell	617,712	Jan. 17	1620	364	86	354
Asphalt-melter	F. S. Miller	623,613	Apr. 25	2610	596	87	558
Asphalt-mixing machine	H. H. Butler	618,535	Jan. 31	3203	709	86	686
Asphalt plant. Portable	J. A. McIntyre	620,555	Feb. 28	3196	732, 733	86	1485
Asphalt. Producing artificial	D. W. Peck	624,081	May 2	243	------	87	748
Asphalt. Producing artificial	D. W. Peck	624,082	May 2	244	------	87	748
Asphalt. Treating bagging for	R. D. Upham	619,810	Feb. 21	1880	429	86	1220
Asphaltic flux	G. F. and G. C. K. Culmer	635,430	Oct. 24	2738	627	89	589
Asphaltic fluxes. Making	G. F. and G. C. K. Culmer	635,429	Oct. 24	2734	627	89	589
Assay-furnace	J. R. Bapty	618,768	Jan. 31	3610	806, 807	86	766
Assay-furnace	W. Hoskins	619,044	Feb. 7	469	98	86	901
Assaying-furnace	O. W. Martin and A. J. Petter	635,586	Oct. 24	3010	691	89	641
Assembling-machine	L. L. Harris	639,383	Dec. 19	2217	513	89	2336
Astragal for use in glazing	A. S. Douglas, Jr	639,964	Dec. 26	3287	752	89	2567
Atmospheric burner	T. J. Litle, Jr	637,269	Nov. 21	2014	432	89	1363
Atmospheric burner	P. G. de Schodt	626,302	June 6	154	37	87	1643
Atomizer	C. O. and E. E. Billow	630,320	Aug. 8	1098	240	88	954
Atomizer	G. F. Cott and J. Loos	638,445	Dec. 5	497	101	89	1962
Atomizer	A. C. Eggers	639,024	Dec. 12	1546	355	89	2187
Atomizer	J. A. Everitt	620,576	Mar. 7	43	9	86	1510
Atomizer	C. Hollweg	636,042	Oct. 31	3888	893	89	826

Alphabetical list of inventions—Continued.

Invention.	Name.	No.	Date.	Monthly volume.		Official Gazette.	
				Spec.	Dr'g.	Vol.	Page.
Atomizer	R. Morrill	628,251	July 4	553	133	88	109
Atomizer	W. W. Weitling	630,277	Aug. 1	999	220	88	920
Atomizer	W. E. Whittier	625,621	May 23	3020	687	87	1349
Atomizer and nebulizer	C. J. Seltzer	638,481	Dec. 5	567	117	89	1975
Audiphone	R. Hutchison	631,505	Aug. 22	3305	751	88	1425
Audipbone. Electrical	R. Hutchison	622,368	Apr. 4	292	67, 68	87	56
Auger. Earth-	C. Densmore	633,574	Sept. 26	2596	608	88	2258
Auger. Earth-	E. F. Isgrig and E. J. Pbares	616,928	Jan. 3	122	27	86	26
Auger. Earth-boring	Z. Leroux	618,422	Jan. 31	3008	666	86	649
Auger. Expanding-	F. B. Spry	627,659	June 27	2708	594	87	2198
Auger-bandle	S. F. Sawyer	618,238	Jan. 24	2647	585	86	565
Auger. Hollow	J. Stepbens	632,764	Sept. 12	1060	245	88	1931
Auger or machine. Mortising	J. D. Wood	625,008	May 16	1932	433	87	1116
Auger. Post-bole	L. L. Dunbar	619,075	Feb. 7	529	111	86	913
Autocar driving mecbanism	G. E. Sieg	638,816	Dec. 12	1181	264, 265	89	2117
Autographic register	F. J. Becker	639,204	Dec. 12	1865	429, 430	89	2249
Autographic register	W. L. Egry and T. F. Schirmer	630,601	Aug. 8	1676	377	88	1063
Autographic register	L. Ehrlich	622,454	Apr. 4	454	106	87	85
Autographic register	W. E. Van Ame	639,635	Dec. 19	2667	612	89	2427
Automatic brake	V. Lauer and F. C. Klossner	620,153	Feb. 28	2487	566	86	1350
Automatic brake	A. E. Norris	638,185	Nov. 28	4122	872	89	1840
Automatic fender	O. Cullison	625,834	May 30	3424	777, 778	87	1445
Automatic gate	J. E. Gibbs	620,441	Feb. 28	2985	684	86	1444
Automatic gate	C. M. Kortner	617,580	Jan. 10	1374	311, 312	86	286
Automatic gate	G. E. Rigg	620,967	Mar. 14	812	179	86	1672
Automatic lubricator	J. H. Piburn	630,405	Aug. 8	1310	292	88	992
Automatic recorder	F. W. Martin	639,180	Dec. 12	1799	417	89	2237
Automatic register	K. D. Camp	622,756	Apr. 11	1030	240	87	215
Automatic regulator	G. S. Neeley	617,598	Jan. 10	1399	317, 318	86	291
Automobile	T. R. Almond	639,490	Dec. 19	2409	555	89	2373
Automobile	W. R. C. Corson	632,805	Sept. 12	1139	262, 263	88	1948
Automobile	J. Schnepf	627,066	June 13	1579	345	87	1938
Automotor-horse	C. Rousset	633,369	Sept. 19	2218	521	88	2170
Aventurin. Making large articles from pieces of	E. M. and S. B. Walsb	629,973	Aug. 1	458	------	88	814
Awl	D. Rippe	632,538	Sept. 5	612	141	88	1829
Awl. Sewing-	C. A. Nelson	618,716	Jan. 31	3527	787	86	748
Awning	J. Delorieux	631,065	Aug. 15	2503	566	88	1249
Awning	M. C. Ryan	634,478	Oct. 10	957	228	89	209
Awning. Adjustable	W. E. Hettrick	619,957	Feb. 21	2138	485	86	1269
Awning-fixture	J. Sullivan	631,597	Aug. 22	3484	787	88	1462
Awning for windows or doors. Detachable	W. S. Armstrong	633,110	Sept. 19	1716	403	88	2071
Awning-frame	R. H. Weaver	627,369	June 20	2151	473	87	2073
Awning-operating device	J. J. Reimer	618,906	Feb. 7	152	33	86	835
Awning. Window, door, or store	J. W. Buck	618,777	Jan. 31	3625	810	86	769
Ax	L. White	636,599	Nov. 7	648	142	89	1053
Ax and cutter. Combination	W. Garlick, D. Murray, and A. O. Howse.	618,658	Jan. 31	3429	764	86	730
Ax-handle	W. S. Marsb	631,117	Aug. 15	2600	587	88	1267
Ax-bead	E. Roberts	622,395	Apr. 4	331	76	87	63
Ax-heads, &c., upon tbeir bandles. Contrivance for securing	F. Baker	625,136	May 16	2166	491	87	1158
Ax or similar tool	J. W. Regan	635,185	Oct. 17	2232	520	89	475
Axle	P. Sharkey	617,659	Jan. 10	1513	343	86	314
Axle and axle-box	H. P. Wells and O. Morrill	635,066	Oct. 17	1994	472	89	430
Axle and axle-box	H. P. Wells and O. Morrill	636,876	Nov. 14	1233	267	89	1197
Axle and bearing	E. E. Stuver	634,774	Oct. 10	1472	346	89	309
Axle and reacb for vehicles. Rear	G. F. Thompson	630,425	Aug. 8	1355	302	88	1001
Axle-attacbing device. Vehicle-	A. Levedahl	631,018	Aug. 15	2413	548	88	1231
Axle-box	J. Cabill	635,954	Oct. 31	3713	858	89	791
Axle-box	R. R. Cross	636,955	Nov. 14	1397	297	89	1229
Axle-box	J. S. Patten	618,721	Jan. 31	3536	790	86	750
Axle-box	E. A. Perkins	638,752	Dec. 12	1075	240	89	2097
Axle box and lid. Car-	A. C. McCord. (Reissue)	11,716	Feb. 7	876	193	86	984
Axle box. Ball-bearing car-	J. W. Breeding	631,693	Aug. 22	3634	819	88	1492
Axle box. Car-	W. S. G. Baker	634,975	Oct. 17	1835	435	89	398
Axle box. Car-	E. L. Howe	627,420	June 20	2255	498	87	2092
Axle-box dust-guard. Car-	N. H. Davis	638,499	Dec. 5	600	124	89	1981
Axle-box dust-guard. Car-	N. H. Davis	638,500	Dec. 5	602	124	89	1981
Axle box for wheels. Roller-bearing-	L. P. Rollins	639,828	Dec. 26	3035	699	89	2517
Axle-box guard. Car-	J. S. Patten	637,280	Nov. 21	2034	436, 437	89	1366
Axle-box. Railway-car	T. Mason	626,070	May 30	3908	887, 888	87	1536
Axle-box. Roller	A. Robinson, Jr	620,673	Mar. 7	243	50	86	1549
Axle-cap. Vehicle-wheel	J. Day, A. and C. E. Timewell	626,677	June 13	841	192	87	1797
Axle. Car-	W. C. Davis	618,982	Feb. 7	368	76	86	881
Axle. Carriage-	W. H. Gailor	624,205	May 2	479	103	87	791
Axle. Carriage or wagon	L. F. Stanton	634,151	Oct. 3	314	80	89	66
Axle-cutter	W. B. Sherman	622,548	Apr. 4	661	154	87	126
Axle. Divided car-	S. L. Denney	618,200	Jan. 24	2579	570	86	553
Axle. Divided car-	S. L. Denney	633,183	Sept. 19	1850	436	88	2098
Axle. Divided crank-	G. P. Jones	620,075	Feb. 21	2343	531	86	1308
Axle-lubricator	J. Cleavenger	628,156	July 4	373	88	88	76
Axle-lubricator	H. D. Moise	635,571	Oct. 24	2985	684	89	636
Axle lubricator. Car-	A. A. Freeman and O. Armstrong	639,968	Dec. 26	3293	753, 754	89	2568
Axle lubricator. Car-	H. Gallager	631,210	Aug. 15	2753	622	88	1298
Axle lubricator, wiper, and dust-guard	J. S. Patten	634,475	Oct. 10	950	226	89	207
Axle. Self-lubricating	J. L. Dolson	621,905	Mar. 28	2552	576	86	2036
Axle. Self-lubricating	J. L. Dolson	621,906	Mar. 28	2554	576	86	2036

Alphabetical list of inventions—Continued.

Invention.	Name.	No.	Date.	Monthly volume.		Official Gazette.	
				Spec.	Dr'g.	Vol.	Page.
Axle. Self-lubricating	J. Groutage	622,003	Mar. 28	2738	618	86	2072
Axle-skein. Roller-bearing	A. H. Wood	630,961	Aug. 15	2303	524	88	1209
Axle-spindle	E. L. Hilderbrand	624,805	May 9	1573	358	87	1029
Axle-spindle	G. C. Lewis	621,473	Mar. 21	1734	386	86	1862
Axle. Vehicle-	W. P. Copass and J. Biles	619,822	Feb. 21	1895	432	86	1223
Axle. Vehicle-	H. C. Jones	636,807	Nov. 14	1107	237	89	1172
Axle. Vehicle-	H. L. Maddox	639,178	Dec. 12	1797	416	89	2237
Axle. Vehicle-	H. A. Moyer	625,693	May 23	3131	712	87	1370
Axle. Vehicle-	L. F. Stanton	631,534	Aug. 22	3353	763	88	1435
Axles. Adjustable cone-fastening for ball-bearing	C. S. Smith	631,445	Aug. 22	3186	723	88	1402
Axles and journals. Means for reducing friction of	W. J. Brewer	632,438	Sept. 5	419	93	88	1789
Axles and journals. Means for reducing friction of	W. J. Brewer	632,693	Sept. 12	927	216	88	1905
Axles and journals. Means for reducing friction of	W. J. Brewer	633,116	Sept. 19	1725	405	88	2073
Axles and journals. Means for reduction of friction of	W. J. Brewer	632,092	Aug. 29	4374	983	88	1643
Baby's band	A. A. Davies	618,847	Feb. 7	50	11	86	814
Baby-jumper	J. Benjamin	626,521	June 6	556	128	87	1722
Baby-walker	A. Friedersdorff	631,889	Aug. 29	4002	895	88	1571
Baby-walker	H. H. Mount	635,797	Oct. 31	3412	787	89	734
Bacillus pyocyaneus. Immunizing preparations from	O. Loew	633,867	Sept. 26	3119	------	88	2361
Back-band and trace connector	G. W. Eppes	624,916	May 16	1779	401	87	1086
Back-band and trace connector	W. H. Thurmond	635,408	Oct. 24	2691	616	89	580
Back-band hook	S. Ward, Sr	631,190	Aug. 15	2714	614	88	1291
Back-pedaling brake	W. H. Allderdice	626,194	May 30	4182	951	87	1586
Back-pedaling brake	R. S. Anderson	625,732	May 30	3212	730	87	1405
Back-pedaling brake	R. S. Anderson	635,414	Oct. 24	2702	618	89	582
Back-pedaling brake	A. R. Anthony and C. T. Cunnius	636,611	Nov. 7	679	148	89	1059
Back-pedaling brake	H. L. Bailey	620,631	Mar. 7	152	32	86	1532
Back-pedaling brake	C. O. Barnes	626,850	June 13	1175	262	87	1859
Back-pedaling brake	J. C. Crocker	623,949	Apr. 25	3238	746	87	677
Back-pedaling brake	J. G. Daigneau	635,714	Oct. 24	3234	745	89	686
Back-pedaling brake	P. E. Doolittle	624,762	May 9	1482	336, 337	87	1012
Back-pedaling brake	V. E. Doremus	616,907	Jan. 3	80	16	86	17
Back-pedaling brake	V. E. Doremus	626,679	June 13	843	192	87	1797
Back-pedaling brake	F. Ecaubert	618,650	Jan. 31	3409	760, 761	86	726
Back-pedaling brake	T. A. Hearson and W. T. Shaw	632,460	Sept. 5	458	102, 103	88	1797
Back-pedaling brake	A. C. Hendricks	631,011	Aug. 15	2394	544, 545	88	1227
Back-pedaling brake	J. D. Jackson	636,045	Oct. 31	3892	893, 894	89	827
Back-pedaling brake	H. B. Keiper	625,560	May 23	2914	662	87	1328
Back-pedaling brake	F. H. Lippincott	629,514	July 25	2927	681	88	625
Back-pedaling brake	C. A. Macy	629,040	July 18	2037	474	88	434
Back-pedaling brake	J. F. McAnulty and P. Van den Berghe.	633,605	Sept. 26	2667	622	88	2269
Back-pedaling brake	G. E. McElroy	622,523	Apr. 4	617	145	87	117
Back-pedaling brake	W. H. Penseyres	634,700	Oct. 10	1343	317, 318	89	285
Back-pedaling brake	C. J. Pihl	623,928	Apr. 25	3198	736, 737	87	670
Back-pedaling brake	S. and S. Priest, Jr	623,825	Apr. 25	3002	688	87	633
Back-pedaling brake	J. C. Reber and W. I Grubb	625,415	May 23	2660	605	87	1278
Back-pedaling brake	A. H. Rogers and H. W. Patrick	625,606	May 23	2986	680	87	1342
Back-pedaling brake	A. H. Rogers and H. W. Patrick. (Reissue.)	11,773	Sept. 19	2543	596	88	2231
Back-pedaling brake	C. H. Schlaf	618,739	Jan. 31	3562	795	86	756
Back-pedaling brake	A. B. Simons	637,742	Nov. 21	3263	680	89	1650
Back-pedaling brake	J. B. Spencer	625,709	May 23	3166	718, 719	87	1378
Back-pedaling brake	E. S. Stem and A. O. Dunlap	637,178	Nov. 14	1840	394	89	1313
Back-pedaling brake	W. Taylor	623,387	Apr. 18	2201	505	87	460
Back-pedaling brake	N. Wallerich	635,704	Oct. 24	3217	741	89	683
Back-pedaling brake	A. W. Waters	623,497	Apr. 18	2387	549	87	497
Back-pedaling brake	J. F. Wilbur	628,056	July 4	173	37	88	35
Back-pedaling brake	E. M. Wildey	630,431	Aug. 8	1364	305	88	1003
Back-pedaling brake	A. A. Zalondek	624,284	May 2	627	137	87	818
Backstay-turning device	R. C. Schemmel	635,193	Oct. 17	2245	523	89	478
Badge	A. H. and G. B. Adams	630,579	Aug. 8	1638	366	88	1056
Badge	C. M. Brown	621,290	Mar. 14	1402	311	86	1786
Badge	A. J. Keil	630,058	Aug. 1	627	137	88	848
Badge	R. Liebmann and J. F. Toussaint	630,547	Aug. 8	1581	353	88	1044
Badge-fastener	J. P. A. Petsch	632,845	Sept. 12	1214	278	88	1964
Badge-holder	J. F. Schlagle	630,934	Aug. 15	2247	512	88	1199
Bag: *See* Acid-proof bag. Bath-bag. Coal-bag. Feed-bag. Fruit-picker's bag. Hand-bag. Horse nose or feed bag. Letter-carrier's bag. Mail-bag. Sleeping-bag. Traveling-bag.							
Bag	R. M. Ellis	626,680	June 13	845	192	87	1798
Bag-closure	F. W. Pawling	624,677	May 9	1333	297	87	981
Bag-fastener	P. M. Bang	637,068	Nov. 14	1616	349	89	1272
Bag-fastener	W. J. Lankford	636,436	Nov. 7	350	79	89	992
Bag-fastener	J. A. Moore	622,651	Apr. 4	853	196	87	162
Bag-filler	J. C. Johnson	617,961	Jan. 17	2099	471	86	449
Bag-filling apparatus	W. E. Nickerson	619,834	Feb. 21	1913	436, 437	86	1227
Bag-frame	L. B. Prahar	624,863	May 9	1681	381	87	1049
Bag-holder	J. A. Anderson	625,134	May 16	2164	490	87	1158
Bag-holder	J. Fey	631,288	Aug. 22	2906	657	88	1346
Bag-holder	H. C. Goldsmith	630,684	Aug. 8	1821	411	88	1089

Alphabetical list of inventions—Continued.

Invention.	Name.	No.	Date.	Monthly volume.		Official Gazette.	
				Spec.	Dr'g.	Vol.	Page.
Bag-holder	J. Hagstrom	637,248	Nov. 21	1984	425	89	1356
Bag-holder	E. D. Hoag	626,701	June 13	891	202	87	1805
Bag-holder	L. Kleiber	626,788	June 13	1050	236	87	1837
Bag-holder	A. Rippon and I. Phillips	639,292	Dec. 19	2032	468	89	2297
Bag-machine	E. E. Claussen and H. Elsas	623,983	May 2	50	11,12	87	711
Bag-making machine	C. Millhiser and C. L. A. Doeppe	623,411	Apr. 18	2243	513, 514, 515	87	469
Bag or sack holder	D. S. Cook	632,175	Aug. 29	4540	1024	88	1676
Bag-tying device	H. T. Knight	635,257	Oct. 17	2355	549	89	498
Bail	J. B. Mowry	630,393	Aug. 8	1274	279	88	987
Bail and cover for vessels. Combined	J. S. Brooks	622,441	Apr. 4	434	101	87	81
Bail-ear	F. R. Johnson, W. Rubin, and G. Bradley.	637,467	Nov. 21	2393	518	89	1439
Bail for coal-scuttles, &c. Rigid	B. F. Seibert	627,273	June 20	1948	429	87	2032
Bailing apparatus	D. B. Whitehill	638,948	Dec. 12	1406	321, 322	89	2161
Bait. Artificial	R. B. Cantrell	633,797	Sept. 26	2993	696	88	2335
Bait. Artificial	E. T. Dukes	632,554	Sept. 5	645	150	88	1834
Bait. Artificial	G. A. Peterson and A. Olson	638,885	Dec. 12	1299	296	89	2139
Bait-box	A. B. Russ	620,805	Mar. 7	496	105	86	1599
Bait-swivel	E. F. Pflueger	632,200	Aug. 29	4589	1034	88	1686
Bake-pan	J. W. De Walt	623,077	Apr. 11	1598	368	87	326
Baking and cooking vessel	A. D. Edwards	618,499	Jan. 31	3143	694	86	674
Baking pan. Cake-	V. D. Allen	616,871	Jan. 3	1	1	86	3
Balance and ready-reckoner. Combined spring-	W. S. Andrews	619,460	Feb. 14	1224	279	86	1068
Balance-escapement	A. R. Colburn	617,852	Jan. 17	1896	423	86	409
Balance. Weighing-	J. S. Brown	637,746	Nov. 21	3271	682	89	1651
Bale-band fastener	D. M. Campbell	639,695	Dec. 19	2788	643	89	2450
Bale-compressing press	A. Baldwin	637,696	Nov. 21	3190	661, 662	89	1635
Bale cotton-press. Cylindrical-	L. Anderson	639,491	Dec. 19	2410	455, 456	89	2374
Bale-covering	F. B. Deane	635,672	Oct. 24	3167	729	89	672
Bale-fastenings. Winding-tool for	D. M. Campbell	630,825	Aug. 8	2056	464	88	1138
Bale-reducing and pad-forming machine	E. J. Stewart	618,916	Feb. 7	176	38, 39, 40	86	840
Bale-supporting device	G. A. Lowry	630,372	Aug. 8	1221	269	88	979
Bale-supporting device for presses	G. A. Lowry	630,371	Aug. 8	1218	268	88	978
Bale-supporting device for presses	G. A. Lowry	630,373	Aug. 8	1223	269	88	979
Bale-tie	P. K. Dederick	628,197	July 4	442	105	88	89
Bale-tie	W. J. Peppard	620,170	Feb. 28	2509	571	86	1355
Bale-tie machine	E. M. Tousley	639,466	Dec. 19	2368	545, 546	89	2365
Bale-tie machine	E. M. Tousley	639,467	Dec. 19	2371	546, 547	89	2366
Bale-tie machines. Feed-roll for wire-	C. O. Sobinski	630,270	Aug. 1	985	217, 218	88	917
Bale-tie-making machine	F. B. Manville and C. S. Weeks	617,253	Jan. 3	734	171, 172, 173	86	144
Bale-tie. Wire	E. S. Lenox	619,584	Feb. 14	1423	327	86	1105
Bale-tying device for compressors	F. B. Shuster	639,946	Dec. 26	3242	743, 744	89	2558
Bales and tie and covering therefor. Means for binding cylindrical cotton-	W. E. Anderson	621,955	Mar. 28	2641	594, 595	86	2052
Bales with wire. Apparatus for tying compressed	W. M. Coonradt	618,645	Jan. 31	3394	755, 756	86	723
Baler. Corn-shock	W. C. Westaway	630,015	Aug. 1	541	119, 120	88	830
Baler. Fodder-	F. Johnson	627,234	June 20	1873	410	87	2016
Baling device. Portable	C. Hebard	622,950	Apr. 11	1378	317	87	281
Baling-machine. Roller	J. J. Faulkner	636,380	Nov. 7	259	57,58	89	973
Baling-press	J. Q. Adams	625,307	May 23	2475	562	87	1243
Baling-press	J. W. and J. S. Click	627,804	June 27	2962	647, 648	87	2249
Baling-press	R. V. L., M. L., and J. J. Day	636,397	Nov. 7	286	64	89	978
Baling-press	P. K. Dederick	625,436	May 23	2701	615, 616	87	1286
Baling-press	P. K. Dederick	628,452	July 11	941	219	88	200
Baling-press	W. C. Gunlock and G. W. Thwing	633,513	Sept. 19	2461	580	88	2217
Baling-press	C. Harrington	628,001	July 4	82	16,17	88	17
Baling-press	J. Heaston	627,460	June 20	2325	512	87	2106
Baling-press	J. Hillebrand and W. E. Wilke	621,494	Mar. 21	1770	395	86	1869
Baling-press	J. H. and G. Howard and G. Gibbs	631,639	Aug. 22	3545	798, 799, 800	88	1474
Baling-press	S. Hurt	617,531	Jan. 10	1279	290	86	269
Baling-press	L. Matthews	630,252	Aug. 1	963	212	88	912
Baling-press	E. R. Mead	627,621	June 27	2642	580	87	2185
Baling-press	M. R. Mitchell	636,160	Oct. 31	4134	946, 947	89	876
Baling-press	J. N. Newman	638,644	Dec. 5	859	187	89	2032
Baling-press	M. O'Connell	621,365	Mar. 21	1544	342	86	1826
Baling-press	C. G. Overmyer	619,605	Feb. 14	1458	335, 336	86	1112
Baling-press	S. Rankin and C. E. Storm	623,826	Apr. 25	3004	688, 689, 690	87	634
Baling-press	J. B. Smith	633,395	Sept. 19	2273	535	88	2180
Baling-press	E. C. Sooy	624,112	May 2	305	64	87	759
Baling-press	E. C. Sooy	627,812	June 27	2973	651	87	2251
Baling-press	S. I. Watkins	626,355	June 6	274	62	87	1667
Baling-press	C. W. White	631,915	Aug. 29	4043	907, 908	88	1579

Alphabetical list of inventions—Continued.

Invention.	Name.	No.	Date.	Monthly volume.		Official Gazette.	
				Spec.	Drg.	Vol.	Page.
Baling press. Cotton-	M. Swenson	633,708	Sept. 26	2848	662, 663	88	2306
Baling-press. Roller	A. Schulze	619,234	Feb. 7	820	180, 181	86	973
Ball: *See* Bowling-alley ball. Tenpin-ball. Rubber ball.							
Ball	B. G. Work and C. Haskell	622,834	Apr. 11	1170	272	87	240
Ball-and-socket joint	C. W. Pashley	625,412	May 23	2653	603	87	1277
Ball-hearing wheel	T. C. Prouty	624,248	May 2	563	120	87	807
Ball-forming machine	M. F. Christensen	632,335	Sept. 5	231	55	88	1753
Ball-joint	C. Kühn	617,833	Jan. 17	1867	417	86	403
Ball-making machine	W. H. Cox	637,372	Nov. 21	2223	472	89	1405
Ball-making machine	R. H. White	635,215	Oct. 17	2290	534, 535	89	485
Balls. Machine for rectifying	A. H. Dupeyron and E. A. Phalempin.	632,403	Sept. 5	351	80	88	1775
Balls, rivets, &c. Machine adapted for making	E. G. Hoffmann	624,488	May 9	1000	225	87	916
Ballast device	J. P. Pool	633,904	Sept. 26	3177	738	88	2372
Balloon. Navigable	F. G. Zeppelin	621,195	Mar. 14	1227	270	86	1752
Ballot	J. J. Cunningham and E. H. Mullen	621,634	Mar. 21	2012	449	86	1916
Band-brake	J. A. Thomas	636,472	Nov. 7	413	92	89	1004
Band-cutter and feeder	A. J. Heine	624,023	May 2	126	28, 29	87	727
Band-cutter and feeder	A. J. Heine	624,024	May 2	133	30	87	728
Band-cutter and feeder	D. Ward	628,970	July 18	1914	445	88	409
Band-cutter and feeder	W. C. Wilka	639,839	Dec. 26	3060	703, 704	89	2521
Band-cutter and feeder	J. H. Young	625,010	May 16	1936	434, 435	87	1116
Band-fastener	D. B. Stevens	632,030	Aug. 29	4259	957	88	1621
Band-fastening	W. E. Davis	637,239	Nov. 21	1971	421	89	1354
Bandage	J. N. Armstrong	636,742	Nov. 14	988	211	89	1148
Bandage-cutter	S. A. Darrach	632,177	Aug. 29	4542	1024	88	1677
Bandage-machine	W. S. Ross	617,542	Jan. 10	1296	293	86	272
Bandage. Suspensory	J. J. Cooper	628,392	July 4	826	193	88	158
Bandage. Suspensory	G. A. Mattern	639,260	Dec. 19	1965	453	89	2284
Banjo	W. J. Riley	636,179	Oct. 31	4173	958	89	884
Banjo-tailpiece	C. S. De Lano	624,309	May 2	677	148	87	829
Bar: *See* Bicycle handle-bar. Type-writer's rack-bar. Sickle-bar.							
Bar for jails, &c	R. C., Jr., and W. A. Stewart	618,962	Feb. 7	300	65	86	869
Bars. Machine for lifting and conveying straightened	R. W. Lundy	631,084	Aug. 15	2541	576	88	1256
Barber-chair	F. De Fontes	637,715	Nov. 21	3218	669	89	1640
Barber's chair	G. W. Archer	630,159	Aug. 1	808	174	88	882
Barber's or dentist's chair	H. R. Kuersten	629,321	July 18	2540	591, 592	88	529
Barge. Hopper-	A. G. Lyster	625,113	May 16	2130	484	87	1152
Barium compounds. Manufacturing soluble	C. B. Jacobs	624,041	May 2	164	------	87	734
Bark cutting and reducing machine	J. C. Hagerty	633,646	Sept. 26	2735	637	88	2283
Bark-peeling machine	L. D. Alden	623,061	Apr. 11	1568	362	87	320
Barnacle-scraper	G. A. McLane	630,261	Aug. 1	974	214	88	915
Barrel	J. B. Alliger	639,193	Dec. 12	1847	425	89	2245
Barrel	R. T. Hargroves	619,686	Feb. 14	1621	370	86	1144
Barrel	G. W. Hinman	621,671	Mar. 21	2092	467, 468	86	1933
Barrel	J. I. Price	622,975	Apr. 11	1420	328	87	290
Barrel	J. F. Vogt	635,212	Oct. 17	2280	531	89	483
Barrel	R. J. and J. S. Wymond	620,525	Feb. 28	3114	712	86	1470
Barrel clamp and cap	G. A. Leavitt	625,573	May 23	2936	666	87	1332
Barrel-closure	F. Köhn	628,819	July 11	1644	379	88	342
Barrel-closure	H. A. McEachern	637,151	Nov. 14	1788	383	89	1304
Barrel-closure. Rotary-clamp	J. Fleming	622,615	Apr. 4	770	178	87	146
Barrel-cover	J. M. Holmes	634,729	Oct. 10	1407	332	89	297
Barrel-cover. Adjustable	M. M. Barratt	627,317	June 20	2038	448	87	2050
Barrel-cover-tie holder	C. F. Dean	625,152	May 16	2190	497	87	1163
Barrel filling or racking machine	D. Beebe	636,618	Nov. 7	689	150, 151	89	1061
Barrel-follower	D. W. Shanks	631,676	Aug. 22	3607	814	88	1486
Barrel follower. Packing-	N. M. Root	631,861	Aug. 29	3957	885	88	1563
Barrel-handling device	W. C. Day	639,696	Dec. 19	2791	643	89	2450
Barrel-handling device	J. E. Ludwig	637,738	Nov. 21	3256	678, 679	89	1648
Barrel-head	J. Kane	620,038	Feb. 21	2281	517	86	1296
Barrel-header	B. Holmes	629,129	July 18	2208	512	88	467
Barrel-heater and feed-cooker	C. H. Van Alstyne	632,160	Aug. 29	4505	1015	88	1671
Barrel-holder	J. W. B. Collins	627,253	June 20	1905	420	87	2023
Barrel-hoop	W. D. Marshall	621,530	Mar. 21	1838	408	86	1881
Barrel-hoop	W. D. Marshall. (Reissue)	11,735	Apr. 18	2407	552	87	501
Barrel. Knockdown	P. Mayotte	622,058	Mar. 28	2825	636	86	2089
Barrel. Knockdown	R. M. Phillips	624,376	May 2	781	175	87	850
Barrel. Knockdown	E. Walton	618,924	Feb. 7	199	43	86	844
Barrel. Metallic	J. G. Conderman	624,911	May 16	1767	399	87	1084
Barrel-pitching machine	W. L. Miller	627,781	June 27	2917	638	87	2240
Barrel-pitching machine	E. Rau	617,185	Jan. 3	615	144	86	102
Barrel-shield	W. A. Frasier	633,443	Sept. 19	2349	554	88	2195
Barrel-stave protector and hung-hole hushing. Combined	A. Terry, Jr	625,814	May 30	3391	769	87	1439
Barrel. Ventilated	J. S. Wright, Jr	639,126	Dec. 12	1719	396	89	2221
Barrel-washer	J. Faust	629,743	July 25	3322	775, 776	88	702
Barrel-washer	J. Schmidt and P. Sherrer	627,272	June 20	1947	429	87	2032
Barrel washing and rinsing apparatus	A. Kradisch	637,344	Nov. 21	2175	468	89	1395
Barrel-washing machine	A. Danner	637,854	Nov. 28	3471	725	89	1711
Barrels, casks, &c. Head for	F. E. Pelton and J. R. Love	635,583	Oct. 24	3004	689	89	640

Alphabetical list of inventions—Continued.

Invention.	Name.	No.	Date.	Monthly volume. Spec.	Monthly volume. Dr'g.	Official Gazette. Vol.	Official Gazette. Page.
Basin	W. R. Chisholm	624,176	May 2	429	88	87	782
Basin and sewer-inlet. Combined catch-	F. F. Rogers and J. Rudge	623,108	Apr. 11	1681	388	87	340
Basin. Catch-	J. J. Mahony	634,011	Oct. 3	55	16	89	15
Basin inlet. Catch-	J. Banwell	638,691	Dec. 12	969	215	89	2075
Basin or bath-tub stopper. Wash-	P. C. Smith	630,011	Aug. 1	537	118	88	829
Basin or inlet for sewers. Catch-	B. F. Nicholas	623,731	Apr. 25	2798	640	87	593
Basin-support	W. H. Lloyd	639,066	Dec. 12	1604	368	89	2198
Basin. Wash-	J. Totham	629,628	July 25	3122	726	88	663
Basin waste. Lavatory-	W. E. Hinsdale	636,727	Nov. 7	910	202	89	1109
Basket	J. W. Doerflinger	635,675	Oct. 24	3173	730	89	673
Basket	S. E. Parrish	623,927	Apr. 25	3197	736	87	670
Basket	E. A. Polsley	634,763	Oct. 10	1458	343	89	306
Basket-blanks. Machine for weaving	E. L. Walker	621,724	Mar. 21	2192	494	86	1952
Basket. Collapsible fruit-	O. C. Fenlason	632,344	Sept. 5	244	58	88	1755
Basket. Fruit-	C. A. Sprague and B. W. Seymour	621,381	Mar. 21	1566	347	86	1830
Basket. Fruit or vegetable	R. B. Fuller	622,921	Apr. 11	1331	306	87	271
Basket. Fruit-picker's	A. B. Hendricks	638,332	Dec. 5	278	57	89	1919
Basket. Laundry-	M. B. Connell	630,183	Aug. 1	847	182	88	890
Basket-making machine	R. G. Du Bois	635,374	Oct. 24	2578	599	89	558
Basket-making machine	J. E. Durham and J. E. Devine	633,342	Sept. 19	2170	509	88	2160
Basket-making machine	W. Jackson	619,182	Feb. 7	733	159	86	955
Basket-making machine	E. Horton	635,723	Oct. 24	3247	748, 749	89	689
Basket-making machine	E. Horton	635,724	Oct. 24	3251	749, 750	89	690
Basket-making machine	E. Horton	635,725	Oct. 24	3256	750, 751	89	690
Basket-making machine	E. Horton	635,726	Oct. 24	3269	755, 756	89	692
Basket-making machine	W. C. Schaefer	638,852	Dec. 12	1239	279	89	2127
Basket-making machine	W. C. Schaeffer	636,697	Nov. 7	845	188	89	1094
Basket. Peach-	J. N. Ramsey	627,204	June 20	1819	398	87	2005
Basket-web	E. L. Walker	627,283	June 20	1960	431	87	2034
Bat-forming mechanism	M. Swenson	621,951	Mar. 28	2630	592, 593	86	2049
Bat-forming mechanism	M. Swenson	621,952	Mar. 28	2632	593	86	2050
Bate	J. T. Wood	638,828	Dec. 12	1196	268	89	2119
Bath: *See* Electric bath. Horse vapor-bath. Electrotherapeutic bath.							
Bath apparatus. Vapor-	E. A. Butts	632,802	Sept. 12	1133	261, 262	88	1947
Bath apparatus. Vapor-	H. Finzel	626,373	June 6	309	71	87	1673
Bath-bag	S. B. Kahnweiler	618,943	Feb. 7	270	57	86	862
Bath bucket. Shower-	W. M. Davis	621,042	Mar. 14	968	210	86	1701
Bath-cabinet. Portable	B. C. Williams	618,968	Feb. 7	309	67	86	870
Bath cabinet. Vapor-	G. Paternoster	622,821	Apr. 11	1143	264	87	236
Bath-tub	F. Johnson	621,920	Mar. 28	2576	580	86	2041
Bath-tub-leg fastener	A. Ow	619,988	Feb. 21	2185	497	86	1278
Bathing apparatus	V. M. George	619,953	Feb. 21	2129	481, 482	86	1267
Bathing appliance	W. Vanderman	634,486	Oct. 10	970	232	89	211
Bating process	H. Schlegel	631,335	Aug. 22	2993	------	88	1364
Baton. Police-	W. N. Bean	619,268	Feb. 14	898	203	86	1004
Batter-machine	J. C. Roberts	629,607	July 25	3086	718, 719	88	656
Batteries. Depolarization substance for electric	G. Platner	630,071	Aug. 1	661	------	88	854
Batteries. Manufacture of electric	E. Baines	636,938	Nov. 14	1371	------	89	1224
Batteries. Oxidant for electrical	L. Paget	631,322	Aug. 22	2968	------	88	1358
Battery: *See* Electric battery. Primary battery. Electrical battery. Secondary battery. Electromedical battery. Storage battery. Faradic battery. Storage or secondary battery. Galvanic battery. Voltaic battery. Medical battery.							
Battery	C. E. Burroughs	636,318	Nov. 7	154	34	89	952
Battery	V. Halski	627,641	June 27	2681	588	87	2193
Battery cell. Storage-	A. K. Westerdahl	631,191	Aug. 15	2716	615	88	1291
Battery cell. Voltaic-	H. de Rufz de Lavison	632,873	Sept. 12	1281	294	88	1974
Battery circuits. Transfer wattmeter-switch for storage-	C. Hewitt	621,412	Mar. 21	1611	357	86	1839
Battery compound	H. Blumenberg, Jr	638,039	Nov. 28	3836	------	89	1784
Battery compound	H. Blumenberg, Jr	638,040	Nov. 28	3837	------	89	1784
Battery compound	H. Blumenberg, Jr	638,041	Nov. 28	3837	------	89	1784
Battery compound	H. Blumenberg, Jr	638,042	Nov. 28	3838	------	89	1784
Battery compound. Electric-	H. Blumenberg, Jr	637,071	Nov. 14	1620	------	89	1273
Battery-cups. Making	F. G. Curtis	636,956	Nov. 14	1398	298	89	1229
Battery elements. Manufacturing active compositions for secondary and primary	A. Schanschieff	621,150	Mar. 14	1157	------	86	1738
Battery elements. Manufacture of secondary-	C. Brault	625,287	May 16	2429	550	87	1208
Battery elements. Manufacture of secondary-	F. King	625,566	May 23	2926	665	87	1330
Battery plate and producing same. Secondary-	A. J. Marquand	624,230	May 2	533	114	87	800
Battery plates. Apparatus for forming secondary-	H. Leitner	637,625	Nov. 21	3056	631, 632	89	1608
Battery plate. Secondary-	A. Schanschieff and A. E. Hodgson.	621,716	Mar. 21	2174	487	86	1949
Battery-plates. Device for automatically shaping, delivering, and stacking	R. Macrae	638,731	Dec. 12	1041	233	89	2089
Battery solution	H. Blumenberg, Jr	625,015	May 16	1942	------	87	1118
Battery-solution compound	H. Blumenberg, Jr	626,046	May 30	3871	------	87	1529
Battery solutions. Utilizing spent	J. Lones	620,466	Feb. 28	3020	------	86	1451
Battery-switch	R. Macrae	619,324	Feb. 14	994	224	86	1024
Batting-machine	P. Kubica	619,318	Feb. 14	986	222	86	1022
Bayonet. Sliding	W. C. Laird	634,466	Oct. 10	938	223	89	205

Alphabetical list of inventions—Continued.

Invention.	Name.	No.	Date.	Monthly volume. Spec.	Monthly volume. Dr'g.	Official Gazette. Vol.	Official Gazette. Page.
Bead adjuster. Stop-	U. G. McQueen	629,699	July 25	3241	754	88	686
Beading-machine	I. E. Booth	623,872	Apr. 25	3096	713	87	650
Beading-machine hammering mechanism	Q. W. Booth	624,426	May 2	874	197	87	869
Beading or cording machine	E. and R. Cornely	619,389	Feb. 14	1101	249	86	1045
Beading or cording machine	E. and R. Cornely	619,390	Feb. 14	1102	249	86	1045
Beads	T. J. Garrigan	620,238	Feb. 28	2637	601	86	1377
Beam-clamp and pipe-hanger. Combined	R. W. Clark	631,887	Aug. 29	3999	895	88	1571
Beam-shears	J. Christie	625,289	May 16	2437	554	87	1208
Beam-shoe	W. C. Hanna, Jr	636,982	Nov. 14	1450	313	89	1240
Bean-shooter	L. Wise	629,182	July 18	2301	534	88	484
Bean-shooter. Magazine	W. M. Hervey	632,526	Sept. 5	579	134	88	1822
Bearing	E. Clay and J. F. Gibb	626,142	May 30	4079	930	87	1566
Bearing	G. Durnerin	639,205	Dec. 12	1866	430	89	2249
Bearing	J. A. Jamieson	634,822	Oct. 10	1553	365	89	325
Bearing	B. S. Lawson	628,479	July 11	993	230	88	211
Bearing	W. D. Sargent	629,395	July 25	2685	625, 626	88	579
Bearing	E. D. Woods	637,842	Nov. 28	3451	721	89	1708
Bearing	T. von Zweigbergk	633,774	Sept. 26	2963	688	88	2329
Bearing	T. von Zweigbergk	633,775	Sept. 26	2964	688	88	2329
Bearing. Adjustable	C. N. Dutton	618,854	Feb. 7	63	13, 14	86	816
Bearing. Adjustable	J. B. and J. B. Dunlop, Jr	623,999	May 2	84	18	87	718
Bearing adjustment. Ball-	H. H. Thompson	619,367	Feb. 14	1060	238	86	1037
Bearing. Antifriction-	H. Brown	618,558	Jan. 31	3247	721	86	694
Bearing. Antifriction-	A. W. Grant	622,041	Mar. 28	2800	631	86	2084
Bearing. Antifriction-	C. A. Latham	618,543	Jan. 31	3217	714	86	688
Bearing. Antifriction-	J. S. Oram	637,016	Nov. 14	1524	327	89	1254
Bearing. Antifriction-	L. H. Seubert	621,376	Mar. 21	1558	346	86	1829
Bearing. Antifriction-	F. A. Sharpneck	620,190	Feb. 28	2558	580	86	1362
Bearing. Antifriction-	G. Vidlund	627,551	June 27	2499	549	87	2157
Bearing. Antifriction-	J. Waterbury	623,113	Apr. 11	1695	391	87	343
Bearing. Axle-	C. Faulkner	619,946	Feb. 21	2118	479	86	1265
Bearing. Axle-	J. Korbuly	631,400	Aug. 22	3108	704	88	1386
Bearing. Axle-	I. Osgood	630,556	Aug. 8	1596	356	88	1047
Bearing. Axle-	A. J. Theiring	630,948	Aug. 15	2277	518	88	1204
Bearing. Ball-	G. A. Burwell	621,219	Mar. 14	1276	281	86	1762
Bearing. Ball-	C. F. Eberhard	633,990	Oct. 3	16	4	89	6
Bearing. Ball-	F. W. Engels	638,222	Dec. 5	26	7	89	1872
Bearing. Ball-	A. Feix	637,329	Nov. 21	2143	461, 462	89	1388
Bearing. Ball-	M. Foidart	626,274	June 6	98	25	87	1633
Bearing. Ball-	M. Foidart	639,807	Dec. 26	3002	691	89	2511
Bearing. Ball-	W. Friend	623,954	Apr. 25	3249	748	87	680
Bearing. Ball-	F. H. Heath	637,204	Nov. 14	1895	407	89	1324
Bearing. Ball-	F. H. Heath	637,206	Nov. 14	1897	408	89	1324
Bearing. Ball-	L. Horn	629,564	July 25	2999	700	88	639
Bearing. Ball-	E. Klahn	624,219	May 2	501	107	87	795
Bearing. Ball-	O. C. Knipe	616,941	Jan. 3	153	34	86	31
Bearing. Ball-	F. E. Mathewson	623,327	Apr. 18	2095	481	87	438
Bearing. Ball-	G. Millen	634,898	Oct. 17	1694	400	89	369
Bearing. Ball-	E. F. Obenchain	617,764	Jan. 17	1718	386	86	373
Bearing. Ball-	S. Powdrill and W. C. Peet	618,132	Jan. 24	2445	545	86	529
Bearing. Ball-	F. M. Woods	638,158	Nov. 28	4068	858	89	1827
Bearing. Ball-	S. D. Wright	637,984	Nov. 28	3715	782	89	1760
Bearing-cage	J. A. Perkins	627,137	June 20	1705	374	87	1983
Bearing. Car-axle	A. J. Weil	628,971	July 18	1915	446	88	410
Bearing. Carriage-axle	S. R. Bailey	623,456	Apr. 18	2318	531	87	484
Bearing. Crank-shaft	J. Fawell	625,546	May 23	2890	657	87	1324
Bearing. Crank-shaft	W. A. Hance	634,525	Oct. 10	1036	247	89	224
Bearing. Cycle ball-	W. J. Busse	628,138	July 4	344	81	88	70
Bearing device. Adjustable ball-	E. W. McGuire	632,878	Sept. 12	1291	296	88	1976
Bearing. Disk	A. Lindgren	628,204	July 4	460	110	88	92
Bearing dust-cap	A. Sidwell	631,054	Aug. 15	2486	563	88	1246
Bearing. Dust-proof	R. Janney	625,449	May 23	2727	620, 621	87	1291
Bearing. End-thrust	V. Bélanger	630,581	Aug. 8	1643	367	88	1057
Bearing for carpet-sweepers. Ball-	F. C. Mason	629,518	July 25	2936	633	88	627
Bearing for carriage-wheels. Roller-	A. C. Brownell	617,802	Jan. 17	1810	404	86	392
Bearing for cycles. Ball-	F. H. Heath	637,205	Nov. 14	1896	407	89	1324
Bearing for lifting-rods. Split bush-	F. M. Garcelon and W. V. Threlfall	639,028	Dec. 12	1551	356	89	2189
Bearing for rolling-stock. Side	C. M. Thompson	637,536	Nov. 21	2519	546	89	1463
Bearing for vehicle-wheels. Ball-	W. R., Sr., and W. R. Spruill, Jr	634,150	Oct. 3	313	79	89	66
Bearing for wheels. Ball-	W. Jenkins	639,732	Dec. 26	2853	657	89	2480
Bearing for wheels for agricultural machines	E. J. Corser	617,143	Jan. 3	550	130	86	108
Bearing. Lubricated	C. R. Meston	622,247	Apr. 4	80	19	87	19
Bearing. Oscillating	H. B. Keiper	633,096	Sept. 12	1677	395	88	2053
Bearing retainer. Ball-	W. H. Binns	620,096	Feb. 28	2383	540	86	1330
Bearing. Roller-	W. B. Allen	627,962	July 4	2	1	88	3
Bearing. Roller-	E. C. Chatham	638,863	Dec. 12	1255	284	89	2130
Bearing. Roller-	T. Cooper and W. H. Woodcock	635,845	Oct. 31	3508	806	89	752
Bearing. Roller-	D. Dryman and A. R. Fulton	629,067	July 18	2087	486, 487	88	444
Bearing. Roller-	M. Foidart	639,720	Dec. 26	2835	653	89	2477
Bearing. Roller-	J. G. Keith	625,561	May 23	2916	662, 663	87	1329
Bearing. Roller-	J. G. Keith	625,686	May 23	3118	708	87	1368
Bearing. Roller-	A. Levedahl	631,019	Aug. 15	2415	548	88	1231
Bearing. Roller-	E. F. Obenchain	635,505	Oct. 24	2867	654	89	614
Bearing. Roller-	F. A. Pilkington	628,033	July 4	133	28	88	28
Bearing. Roller-	F. H. Richards	620,180	Feb. 28	2523	573	86	1358
Bearing. Roller-	P. M. St. Louis	633,053	Sept. 12	1573	366	88	2031
Bearing. Roller-	A. F. Warren	627,029	June 13	1514	330	87	1926
Bearing. Roller-	F. Whitney	640,059	Dec. 26	3452	793	89	2601
Bearing. Roller-	F. W. Wurster	618,633	Jan. 31	3374	751	86	718
Bearing. Roller thrust-	W. S. Rogers	639,775	Dec. 26	2946	677	89	2499
Bearing. Shaft-	B. E. Foss	632,995	Sept. 12	1475	343	88	2013

Alphabetical list of inventions—Continued.

Invention.	Name.	No.	Date.	Monthly volume. Spec.	Monthly volume. Dr'g.	Official Gazette. Vol.	Official Gazette. Page.
Bearing slide. Ball-	C. C. Protheroe	638,273	Dec. 5	132	30	89	1891
Bearing. Thrust-	A. H. Lighthall	633,862	Sept. 26	3109	722	88	2359
Bearing. Vehicle ball-	A. L. Carley	633,798	Sept. 26	2994	696	88	2336
Bearings. Cone-lock for ball-	F. Myers	630,913	Aug. 15	2214	504	88	1192
Bearings. Cone-lock for ball-	F. Myers	630,915	Aug. 15	2216	505	88	1193
Bearings. Device for inserting balls in	M. Hogrefe	619,484	Feb. 14	1267	290	86	1077
Bearings. Guide-frame for rolls in roller-	C. S. Lockwood and T. J. Tellefsen	633,553	Sept. 19	2533	594	88	2230
Bearings. Manufacturing ball-retainers for anti-friction-	H. B. Keiper	624,047	May 2	178	38	87	736
Bearings. Means for supporting	S. C. Davidson	630,529	Aug. 8	1550	345, 346	88	1038
Beater and sifter	J. C. Roberts	629,608	July 25	3088	719	88	657
Beating apparatus	R. A. Gipple	617,093	Jan. 3	446	108	86	87
Bed	G. W. Bent	639,703	Dec. 26	2804	647	89	2470
Bed	M. P. Henderson	639,234	Dec. 19	1925	443	89	2275
Bed	A. E. Jacobson	618,882	Feb. 7	117	25	86	827
Bed and douche pan	D. Hogan	633,004	Sept. 12	1489	346	88	2015
Bed and seat bottom. Spring	J. F. Gail	639,222	Dec. 19	1903	438, 439	89	2270
Bed and seat bottom. Spring	J. F. Gail	639,223	Dec. 19	1906	439	89	2271
Bed and seat bottom. Spring	J. F. Gail	639,224	Dec. 19	1909	439	89	2272
Bed and seat bottom. Spring	J. F. Gail	639,225	Dec. 19	1912	439	89	2273
Bed and seat bottom. Spring	J. F. Gail	639,226	Dec. 19	1913	440	89	2273
Bed attachment	J. H. Greene	622,000	Mar. 28	2734	617	86	2072
Bed attachment. Invalid-	F. M. Forbes	618,407	Jan. 31	2981	661	86	645
Bed-bottom	G. W. Bent	620,880	Mar. 14	638	140	86	1640
Bed-bottom	J. P. Lein	631,799	Aug. 29	3858	860	88	1542
Bed-bottom	J. E. Sommers	628,498	July 11	1021	238	88	217
Bed-bottom frame	F. M. Tinkham	632,478	Sept. 5	489	112	88	1803
Bed-bottom. Spring	W. L. Antes	622,030	Mar. 28	2783	627	86	2081
Bed-bottom. Spring	E. J. Antoni	616,874	Jan. 3	5	2	86	4
Bed-bottom. Spring	C. D. Brouyette	630,968	Aug. 15	2323	529	88	1213
Bed-bottom. Spring	R. J. Everitt	624,634	May 9	1262	282	87	967
Bed-bottom. Spring	F. Karr	624,341	May 2	728	162	87	840
Bed-bottom springs. Machine for bending ends of wire for	B. F. Windsor	627,286	June 20	1963	432, 433, 434	87	2084
Bed-bottom-tightening device. Spring-	A. C. Lottman	634,531	Oct. 10	1050	250	89	227
Bed-brace	J. L. Peacock	638,028	Nov. 28	3821	803	89	1781
Bed-brace	J. A. and F. M. Wilks	620,521	Feb. 28	3106	711	86	1469
Bed-brace and slat-fastener	P. H. Treadway and R. V. Parker	639,796	Dec. 26	2981	685	89	2507
Bed-bracket	J. C. Woodward	619,650	Feb. 14	1560	355	86	1132
Bedclothing-holder	S. J. Davis	630,191	Aug. 1	859	184	88	892
Bed. Combined sofa-	F. C. Genge	624,008	May 2	100	21	87	722
Bed-cover holder	M. B. Kendrick	617,879	Jan. 17	1956	438	86	420
Bed. Folding	L. C. Bailey	629,286	July 18	2465	573	88	514
Bed. Folding	D. Frank	631,500	Aug. 22	3296	749, 750	88	1423
Bed. Folding	J. Levy	617,586	Jan. 10	1382	313, 314	86	288
Bed. Folding	P. H. Mellon	632,191	Aug. 29	4580	1031	88	1684
Bed. Folding	G. W. Sanor	637,670	Nov. 21	3139	650, 651	89	1624
Bed. Folding	S. A. Wester	624,140	May 2	357	74	87	768
Bed. Folding metal	H. T. Dyett	632,703	Sept. 12	949	220	88	1909
Bed. Folding metal	A. Holm	624,493	May 9	1011	227	87	917
Bed. Folding metal	A. Holm	634,110	Oct. 3	236	59	89	50
Bed. Folding metallic	P. H. Mellon	631,651	Aug. 22	3567	804	88	1478
Bed-frame corner connection	W. S. Plummer	626,796	June 13	1061	239	87	1839
Bed. Hospital-	H. L. Piper and W. H. Fox	638,755	Dec. 12	1078	241	89	2097
Bed. Invalid-	G. Huntington	633,264	Sept. 19	2015	473	88	2130
Bed. Invalid-	J. Powley	620,800	Mar. 7	485	102	86	1596
Bed. Iron	G. E. Pack and A. Phillippi	634,065	Oct. 3	136	35	89	31
Bed-lounge	C. H. Mullen	627,757	June 27	2879	629	87	2233
Bed-lounge box attachment	W. H. Burtless	618,264	Jan. 24	2693	596	86	573
Bed. Metallic	J. P. Lein	625,112	May 16	2129	483	87	1152
Bed-motion for traveling beds	G. F. Read	635,978	Oct. 31	3766	869	89	801
Bed-screen. Folding	T. J. Powers	623,737	Apr. 25	2810	643	87	595
Bed. Sofa-	S. Karpen	632,053	Aug. 29	4301	966, 967	88	1629
Bed. Sofa-	T. G. Weyer	624,591	May 9	1184	266	87	952
Bed-spring	G. Brown	636,734	Nov. 7	957	206	89	1126
Bed-spring	F. A. Palmer	639,931	Dec. 26	3215	737	89	2553
Bed-spring	P. H. Treadway and R. V. Parker	639,795	Dec. 26	2980	685	89	2507
Bed. Spring-	F. H. Herterich	632,412	Sept. 5	362	82	88	1777
Bed. Transport-	J. P. Lein	631,962	Aug. 29	4126	929	88	1595
Beds. Removable head-section for	C. H. Johansen	627,233	June 20	1871	410	87	2015
Beds, sofas, &c. Spring-bottom for	B. B. Fixen	632,520	Sept. 5	572	132	88	1820
Bedstead	W. Coughlin	624,434	May 2	892	202	87	873
Bedstead	T. Guilbault	623,956	Apr. 25	3251	748	87	680
Bedstead attachment	B. L. Fischer	625,496	May 23	2806	639	87	1307
Bedstead-ball	W. H. Perkins	629,598	July 25	3071	716	88	653
Bedstead-brace	J. D. Earle	637,770	Nov. 28	3317	694	89	1679
Bedstead-brace	F. C. Williams	621,397	Mar. 21	1588	351	86	1835
Bedstead-corner fastener	S. J. Turner	631,390	Aug. 22	3092	700	88	1383
Bedstead coupling. Iron-	W. L. Dismukes	632,254	Sept. 5	84	18	88	1723
Bedstead-fastening	F. A. Hall and E. F. Tilley	625,164	May 16	2207	501	87	1166
Bedstead-fastening	K. Kohn	633,651	Sept. 26	2743	638	88	2284
Bedstead-fastening	J. Reigart and C. S. Boll	620,611	Mar. 7	114	23	86	1524
Bedstead. Folding	J. W. Pepper	631,474	Aug. 22	3242	735	88	1412
Bedstead. Folding	J. W. Pepper	640,021	Dec. 26	3376	774	89	2586
Bedstead. Folding	J. W. Pepper	640,022	Dec. 26	3378	774	89	2586
Bedstead. Folding	J. Varcoe	630,140	Aug. 1	773	166, 167	88	876
Bedstead. Folding or collapsible	J. Russell	630,744	Aug. 8	1912	431	88	1108
Bedstead for invalids or children. Folding	H. Roels	630,111	Aug. 1	723	156	88	867

Alphabetical list of inventions—Continued.

Invention.	Name.	No.	Date.	Monthly volume.		Official Gazette.	
				Spec.	Dr'g.	Vol.	Page.
Bedstead. Invalid-	E. C. Scribner	629,275	July 18	2448	567, 568	88	511
Bedstead. Invalid-	L. Zucker	622,317	Apr. 4	210	47,48	87	40
Bedstead. Iron	W. Hess	637,784	Nov. 28	3342	699	89	1684
Bedstead. Iron folding	J. Montgomery	637,146	Nov. 14	1780	381, 382	89	1302
Bedstead. Metal	C. F. Rood	623,038	Apr. 11	1537	355	87	314
Bedstead-rail corner connection	E. J. Barcalo	619,117	Feb. 7	607	130	86	929
Bedstead-rail joint	O. E. A. Wiessner	626,043	May 30	3868	877	87	1528
Bedstead. Sofa-	W. J. Kelly	638,466	Dec. 5	542	111	89	1971
Bedsteads, &c. Framing for	A. O. Larsson and K. H. J. Kollén	622,502	Apr. 4	562	132	87	106
Bee-feeder	C. I. Foster	623,360	Apr. 18	2154	495	87	449
Beehive	J. Hartman	630,828	Aug. 8	2063	465	88	1140
Beehive	M. H. Honnoll and J. M. Droke	618,675	Jan. 31	3454	770	89	735
Beehive honey-sections. Separator for	J. E. Crane	624,438	May 2	898	203	87	874
Beehive outer case	J. N. Taylor	620,859	Mar. 7	601	130	86	1621
Beef-splitting machine	W. G. Tower and A. F. Bauer	637,490	Nov. 21	2435	528, 529	89	1446
Beer. Apparatus for drawing and serving steam-	G. A. Friedrich. (Reissue)	11,745	June 6	796	181	87	1769
Beer-cask alarm	H. L. Schroeder	618,740	Jan. 31	3564	796	86	756
Beer-casks. Apparatus for maintaining pressure in	C. E. Thurlow	624,129	May 2	338	69	87	765
Beer-cooler	G. Engel	625,658	May 23	3080	701	87	1361
Beer-cooler	H. Reininger	626,934	June 13	1351	297	87	1894
Beer. Device for drawing steam-	F. E. Farley and J. H. Jackson	621,998	Mar. 28	2732	617	86	2071
Beer-dispensing and pipe-cleaning apparatus	J. D. Freese	628,084	July 4	230	53	88	46
Beer drawing and preserving apparatus	T. Schnutz	635,514	Oct. 24	2884	658	89	617
Beer-fountain	J. Dusheck	626,151	May 30	4097	934	87	1570
Beer. Manufacturing	P. Kropf	619,317	Feb. 14	985	------	86	1022
Beer or other pipe cleaner	J. Hasson	635,961	Oct. 31	3726	861	89	793
Beer. Process of and apparatus for filtering and recarbonizing	J. F. Theurer	618,142	Jan. 24	2464	549	86	532
Beer. Process of and apparatus for filtering and recarbonating	J. F. Theurer	620,379	Feb. 28	2884	660	86	1426
Beet loosening and topping device	J. Parker and J. E. Thompson	637,656	Nov. 21	3107	643	89	1618
Beet-puller	I. Goble	630,535	Aug. 8	1561	348	88	1040
Beet-pulp drier	A. W. Hoppenstedt and R. J. Decker	627,419	June 20	2254	497, 498	87	2092
Bell	W. F. Hunter and C. W. Storm	620,138	Feb. 28	2469	560	86	1347
Bell	E. D. Rockwell	636,181	Oct. 31	4178	959	89	885
Bell. Alarm-	F. Hein	634,727	Oct. 10	1405	331	89	297
Bell. Bicycle-	A. W. Barton	617,220	Jan. 3	680	157, 158	86	133
Bell. Bicycle-	W. A. Butler	616,893	Jan. 3	53	10,11	86	13
Bell. Bicycle-	G. W. Eddy	625,655	May 23	3073	700	87	1360
Bell. Bicycle-	E. Ericson	636,966	Nov. 14	1413	302	89	1232
Bell. Bicycle-	J. H. Goss	625,672	May 23	3101	705	87	1364
Bell. Bicycle-	C. G. Hutchinson	618,985	Feb. 7	374	78	86	883
Bell. Bicycle-	G. J. Kraushaar	618,107	Jan. 24	2388	533	86	518
Bell. Bicycle-	T. Miller	632,819	Sept. 12	1170	268	88	1955
Bell. Bicycle-	D. Partington	621,461	Mar. 21	1713	380	86	1858
Bell. Bicycle-	H. Q. Plummer	632,427	Sept. 5	387	88	88	1783
Bell. Bicycle-	O. Price	617,602	Jan. 10	1413	321	86	293
Bell. Bicycle-	J. Ramsay	638,420	Dec. 5	448	93	89	1951
Bell. Bicycle-	E. D. Rockwell	621,759	Mar. 21	2268	511	86	1966
Bell. Bicycle-	W. Wilton	632,611	Sept. 5	725	167	88	1850
Bell. Bicycle alarm-	H. Brändli	622,440	Apr. 4	432	100, 101	87	80
Bell. Bicycle alarm-	J. E. Cotter	628,074	July 4	211	48	88	42
Bell. Bicycle alarm-	F. Mossberg and C. A. Brink	622,159	Mar. 28	3019	683	86	2129
Bell. Bicycle alarm-	F. Mossberg and C. A. Brink	637,274	Nov. 21	2025	434	89	1364
Bell. Bicycle pedal-	H. Q. Plummer	632,471	Sept. 5	474	108	88	1801
Bell. Call-	S. Nafew	626,793	June 13	1056	237	87	1838
Bell. Call-	E. C. Worns	623,589	Apr. 25	2573	589	87	551
Bell clamp. Bicycle-	G. W. Eddy	617,240	Jan. 3	718	167	86	141
Bell. Door-	J. D. Ratliff	632,824	Sept. 12	1177	269	88	1956
Bell. Door-	H. G. Voight	632,293	Sept. 5	164	38	88	1740
Bell door-knob	E. H. Kinnaman and B. F. Flowers. (Reissue.)	11,721	Mar. 7	628	137	86	1626
Bell. Electric	D. Rousseau	636,069	Oct. 31	3976	909	89	844
Bell-hammer	J. H. Goss and G. W. Eddy	625,671	May 23	3100	705	87	1364
Bell mechanism. Alarm-	A. F. Rockwell	631,325	Aug. 22	2973	672, 673	88	1359
Bell-ringing mechanism	W. R. Livermore	622,242	Apr. 4	74	18	87	17
Bell. Rotary	J. H. Goss and G. W. Eddy	625,670	May 23	3097	704, 705	87	1364
Bell-striker	A. Arens	621,013	Mar. 14	904	196	86	1689
Bell striker. Magneto-	R. Brueckner	625,923	May 30	3595	816	87	1478
Bell-striking mechanism	F. A. Scranton	639,689	Dec. 19	2778	641	89	2447
Bell. Velocipede-	F. Dick	638,323	Dec. 5	255	53	89	1915
Bellows	A. J. Gunter	631,569	Aug. 22	3435	776	88	1451
Belt	L. Schmidt	637,529	Nov. 21	2508	544	89	1461
Belt	C. C. Weeks	628,901	July 11	1793	418	88	369
Belt attachment. Waist-	C. L. Stephenson	631,594	Aug. 22	3480	786	88	1461
Belt-carrier canvas-fastener	M. D. Smyser and G. W. Taylor	626,572	June 6	640	148	87	1739
Belt-clamp	C. Jackson	639,922	Dec. 26	3203	735	89	2551
Belt-clasp	J. A. Baeuerle	621,311	Mar. 14	1444	319	86	1794
Belt. Concentrating-	G. Gates	626,461	June 6	451	106	87	1701
Belt. Conveyer-	A. Hasper	621,816	Mar. 28	2378	531	86	2002
Belt. Conveyer-	J. J. Ridgway	632,750	Sept. 12	1031	239	88	1925
Belt-coupling	J. Q. Adams	624,604	May 9	1212	272	87	957
Belt. Driving-	G. B. Rowbotham	627,810	June 27	2970	650	87	2250
Belt. Electric	L. A. Dixon	634,231	Oct. 3	482	121	89	98
Belt. Electric	W. P. Freeman	623,953	Apr. 25	3247	747	87	679
Belt. Electric	W. H. I. Geiger	623,659	Apr. 25	2684	616	87	571
Belt. Electric	A. T. Sanden	638,148	Nov. 28	4050	855	89	1824
Belt. Electric	T. F. Wynne	621,733	Mar. 21	2208	498	86	1955

Alphabetical list of inventions—Continued.

Invention.	Name.	No.	Date.	Monthly volume. Spec.	Monthly volume. Dr'g.	Official Gazette. Vol.	Official Gazette. Page.
Belt-fastener	J. M. Cavins	630,180	Aug. 1	841	181	88	889
Belt-fastener	H. Derdeyn	624,760	May 9	1480	336	87	1011
Belt-fastener	R. Fraser	620,765	Mar. 7	426	88	86	1584
Belt-fastener	B. F. Hough	628,326	July 4	721	167	88	138
Belt-fastener	W. C. Humphrey	622,856	Apr. 11	1211	282	87	249
Belt-fastener	F. Kane	639,994	Dec. 26	3341	764	89	2578
Belt-fastener	A. Scheuerer, Jr	617,776	Jan. 17	1744	391	86	377
Belt-fasteners. Manufacturing	W. H. and E. H. Bristol	639,513	Dec. 19	2440	564	89	2380
Belt-fastening	L. Taylor	621,179	Mar. 14	1202	262	86	1747
Belt-fastening device	G. W. Southwick	619,514	Feb. 14	1319	302	86	1088
Belt-fastening tool	C. F. Spery	637,902	Nov. 28	3578	749	89	1733
Belt for sprocket-wheels. Driving-	O. H. Gentry	618,083	Jan. 24	2349	525	86	510
Belt. Game-	L. C. Hoffman	633,550	Sept. 19	2530	594	88	2229
Belt-guide	E. Cayemberg	636,951	Nov. 14	1390	296	89	1228
Belt-holder	S. Schwarz	626,101	May 30	3994	910	87	1549
Belt. Knitted driving-	M. Koch	628,818	July 11	1643	379	88	342
Belt or motor-switch shifter. Automatic	A. W. Cash	627,903	June 27	3144	687	87	2286
Belt. Power-transmitting	B. A. Legg	625,340	May 23	2538	577	87	1255
Belt-shifter	J. H. Ferguson	619,017	Feb. 7	423	88, 89	86	892
Belt-shifter	W. D. Graves	621,655	Mar. 21	2054	458	86	1924
Belt-shifting device	G. F. Evans	627,491	June 27	2378	523, 524	87	2133
Belt-shipper	C. Dawson	618,246	Jan. 24	2659	588	86	568
Belt-slide	O. A. Lehman	619,492	Feb. 14	1281	293	86	1080
Belt-tightener	W. O. Davies, Jr., and R. Hughes	634,055	Oct. 3	122	31	89	28
Belt-tightener	C. L. Meissner	621,474	Mar. 21	1735	387	86	1862
Belt. Waist-	H. J. Gaisman	619,161	Feb. 7	701	150	86	948
Belt. Waist-	H. J. Gaisman	623,362	Apr. 18	2159	496, 497	87	450
Belt. Waist-	H. J. Gaisman	630,045	Aug. 1	601	131	88	842
Belt. Waist-	C. Messick, Jr	627,864	June 27	3068	671	87	2269
Belt-winder. Threshing-machine	J. B. Bartholomew	637,760	Nov. 28	3303	690	89	1675
Belts. Device for putting on	R. Schofield	634,915	Oct. 17	1722	407	89	375
Belts onto pulleys. Device for running	C. Koch	638,515	Dec. 5	625	129	89	1985
Belting. Machine-	H. T. Reuter	619,908	Feb. 21	2055	466	86	1254
Belting. Manufacture of leather	E. F. Sargeant	618,738	Jan. 31	3561	795	86	755
Bench: *See* School-bench. Work-bench. Washbench.							
Bench	M. A. Miller	631,404	Aug. 22	3112	705	88	1386
Bench-stop	B. Phelps	627,082	June 13	1603	350	87	1943
Bending-machine	E. Einfeldt	635,433	Oct. 24	2743	628	89	589
Bending-machine	H. C. Filstrup and F. A. Sennet	639,221	Dec. 19	1899	438	89	2269
Bending-machine	C. Seymour	617,195	Jan. 3	635	148	86	124
Bending structural shapes. Machine for	S. E. Diescher	629,496	July 25	2880	668, 669, 670, 671	88	616
Benzin and homologues. Making	C. B. Jacobs	635,017	Oct. 17	1899	452	89	416
Berry grader and cleaner	W. S. Middlebrook	633,527	Sept. 19	2484	584	88	2221
Berry-picking machine	G. F. Lane and S. Comeau	634,735	Oct. 10	1415	333	89	299
Berth	A. N. Chamberlain	622,993	Apr. 11	1452	335	87	296
Beverage-mixer	J. L. Nelson	618,122	Jan. 24	2417	539, 540	86	523
Bicycle	R. P. Ambler	634,789	Oct. 10	1494	351	89	313
Bicycle	C. S. Ambruster	630,436	Aug. 8	1370	306, 307	88	1004
Bicycle	J. C. Anderson	633,746	Sept. 26	2915	676, 677	88	2319
Bicycle	J. C. Anderson	633,747	Sept. 26	2917	677, 678	88	2319
Bicycle	J. C. Anderson	633,749	Sept. 26	2922	679	88	2320
Bicycle	J. M. Baker	638,310	Dec. 5	235	48, 49	89	1911
Bicycle	N. M. Barnes	619,118	Feb. 7	608	130	86	929
Bicycle	L. Bauroth	628,383	July 4	810	188	88	155
Bicycle	F. P. Bemis	617,273	Jan. 3	781	182	86	153
Bicycle	F. P. Bemis	626,852	June 13	1179	262	87	1860
Bicycle	F. P. Bemis	635,032	Oct. 17	1927	458	89	416
Bicycle	E. A. Bolus	633,784	Sept. 26	2977	691	88	2332
Bicycle	W. C. Brandenburg	622,880	Apr. 11	1264	292	87	259
Bicycle	E. S. Bryant	632,306	Sept. 5	185	42	88	1743
Bicycle	W. O. Campbell	618,330	Jan. 24	2803	622	86	595
Bicycle	D. Carpenter	624,295	May 2	641	141	87	821
Bicycle	A. Catudal	635,744	Oct. 31	3314	765	89	714
Bicycle	A. China	630,182	Aug. 1	845	181	88	889
Bicycle	J. Cressman	636,639	Nov. 7	735	161	89	1070
Bicycle	R. F. Darling	631,063	Aug. 15	2500	566	88	1249
Bicycle	G. Davies	633,814	Sept. 26	3021	702	88	2341
Bicycle, &c	E. Davis	625,720	May 23	3180	722	87	1381
Bicycle	T. S. Davis	625,835	May 30	3427	778	87	1446
Bicycle	L. De Rango. (Reissue)	11,764	Aug. 8	2073	468	88	1142
Bicycle	C. S. Dikeman	631,282	Aug. 22	2893	654	88	1343
Bicycle	T. W. Dixon	632,807	Sept. 12	1143	263	88	1949
Bicycle	E. C. Doolittle	621,995	Mar. 28	2728	616	86	2070
Bicycle	G. Ellstrom	625,749	May 30	3254	738	87	1413
Bicycle	J. Engel	618,652	Jan. 31	3418	762	86	728
Bicycle	G. A. Ennis and H. H. Ross	618,855	Feb. 7	65	14	86	816
Bicycle	G. A. Ennis and H. H. Ross	628,082	July 4	225	52	88	46
Bicycle	J. C. Fleming	620,294	Feb. 28	2735	627	86	1397
Bicycle	L. B. Gaylor	617,329	Jan. 10	899	209	86	194
Bicycle	O. H. Gentry	636,792	Nov. 14	1083	232	89	1167
Bicycle	S. G. Goss	634,887	Oct. 17	1678	396	89	366
Bicycle	J. H. Graham	638,112	Nov. 28	3978	837	89	1810
Bicycle	J. A. Greig	636,038	Oct. 31	3881	891	89	825
Bicycle	C. P. Hall	627,187	June 20	1794	393	87	2000
Bicycle	R. H. Hennemeier	626,756	June 13	981	222	87	1822

Alphabetical list of inventions—Continued.

Invention.	Name.	No.	Date.	Monthly volume.		Official Gazette.	
				Spec.	Dr'g.	Vol.	Page.
Bicycle	H. F. Henderson	639,567	Dec. 19	2548	585	89	2402
Bicycle	J. J. Hentz	624,651	May 9	1285	287	87	971
Bicycle	H. E. Henwood	618,874	Feb. 7	105	22	86	825
Bicycle	J. Horn	635,964	Oct. 31	3730	862	89	794
Bicycle	M. C. Johnson	618,356	Jan. 24	2847	632	86	603
Bicycle	J. A. Kelly	639,996	Dec. 26	3343	765	89	2578
Bicycle	T. G. Kelly	638,723	Dec. 12	1029	231	89	2086
Bicycle	J. F. Koehler	620,459	Feb. 28	3009	688, 689	86	1448
Bicycle	W. Konrad, Jr.	623,914	Apr. 25	3177	732	87	666
Bicycle, &c	H. A. Lamplugh	628,820	July 11	1645	380	88	342
Bicycle	W. L. Martin	617,535	Jan. 10	1285	291	86	270
Bicycle	W. L. Martin	617,536	Jan. 10	1287	291	86	270
Bicycle	J. and G. W. McDonnell	627,199	June 20	1807	396	87	2003
Bicycle	C. L. Merkel	622,817	Apr. 11	1137	263	87	235
Bicycle	E. F. Morse	638,979	Dec. 12	1466	336	89	2173
Bicycle	S. Nefzger	623,379	Apr. 18	2185	501	87	456
Bicycle	M. L. Nichols	616,957	Jan. 3	177	40	86	35
Bicycle	I. Noar	630,093	Aug. 1	697	149	88	861
Bicycle	E. C. Noe	623,173	Apr. 18	1817	417	87	382
Bicycle	A. C. Nygaard	636,691	Nov. 7	835	185	89	1091
Bicycle	W. J. Otto	629,389	July 25	2674	624	88	577
Bicycle	H. H. Pattee	636,921	Nov. 14	1339	287	89	1217
Bicycle	M. Pedersen	628,843	July 11	1679	392	88	348
Bicycle	T. J. Psimenos	633,612	Sept. 26	2682	624, 625	88	2272
Bicycle	M. Quinn	635,590	Oct. 24	3017	693	89	642
Bicycle	J. C. Raymond	627,351	June 20	2099	464	87	2062
Bicycle	E. Rooch	638,067	Nov. 28	3871	814, 815	89	1791
Bicycle	R. de Saussure	623,430	Apr. 18	2275	521	87	475
Bicycle	F. W. Smith	626,875	June 13	1249	274, 275	87	1874
Bicycle, &c	L. Sturges	634,707	Oct. 10	1355	320	89	287
Bicycle	W. M. Sweet	634,098	Oct. 3	200	50	89	44
Bicycle	C. E. Tomlinson	635,451	Oct. 24	2779	635	89	598
Bicycle	C. L. Travis	618,626	Jan. 31	3361	747, 748	86	716
Bicycle	C. L. Travis	618,627	Jan. 31	3362	748	86	716
Bicycle	H. Tuttle	631,973	Aug. 29	4146	933	88	1599
Bicycle	H. Tuttle	631,974	Aug. 29	4148	933, 934	88	1600
Bicycle	G. Van Horn	632,797	Sept. 12	1124	259	88	1945
Bicycle	T. S. Woodruff	628,426	July 4	889	208	88	170
Bicycle	W. H. F. Young	640,068	Dec. 26	3470	796	89	2605
Bicycle adjustable seat-post	C. S. Irish and P. V. Markell	617,831	Jan. 17	1864	417	86	402
Bicycle adjusting mechanism	H. W. Lloyd	620,156	Feb. 28	2491	566	86	1351
Bicycle-alarm	J. M. Butcher	617,412	Jan. 10	1071	244	86	228
Bicycle-alarm	J. M. Butcher	617,413	Jan. 10	1072	245	86	228
Bicycle-alarm	G. F. Hall	617,013	Jan. 3	288	64	86	58
Bicycle-alarm	D. Nei	636,833	Nov. 14	1147	247	89	1180
Bicycle alarm-lock	C. Phelps	618,726	Jan. 31	3543	791	86	752
Bicycle and carrier. Combined	G. W. Dunsworth	623,144	Apr. 18	1760	405	87	371
Bicycle and gearing therefor	J. W. Eisenhuth	627,990	July 4	59	11	88	13
Bicycle attachment	C. Cretors	618,041	Jan. 17	2247	500, 501	86	476
Bicycle attachment	F. A. Fisher	620,115	Feb. 28	2426	548	86	1338
Bicycle attachment	J. M. Gilbert	617,685	Jan. 10	1563	354	86	323
Bicycle attachment	W. Hanlon	620,918	Mar. 14	706	156	86	1652
Bicycle attachment	S. S. Howarth	627,693	June 27	2764	605	87	2209
Bicycle attachment	S. H. Law	639,588	Dec. 19	2578	592	89	2408
Bicycle attachment	T. R. Locke	625,574	May 23	2937	667	87	1332
Bicycle attachment	J. F. Shugers	636,570	Nov. 7	604	133	89	1044
Bicycle attachment	M. Zack	618,195	Jan. 24	2572	569	86	551
Bicycle-bearing adjustment	A. M. Price	621,582	Mar. 21	1926	431	86	1899
Bicycle-boat	C. A. Storms	621,465	Mar. 21	1719	381, 382	86	1859
Bicycle-brake	J. H. Bullard	623,498	Apr. 18	2388	549	87	498
Bicycle-brake	G. N. Chase	637,085	Nov. 14	1639	354, 355	89	1277
Bicycle-brake	G. M. Collins	636,494	Nov. 7	454	101	89	1012
Bicycle-brake	W. H. Crossley	619,395	Feb. 14	1108	251	86	1046
Bicycle-brake	A. M. Cushing	616,905	Jan. 3	73	15	86	16
Bicycle-brake	H. W. Darbey and L. E. Trant	635,669	Oct. 24	3159	727, 728	89	670
Bicycle-brake	H. Darby	619,072	Feb. 7	518	109, 110	86	911
Bicycle-brake	E. Davis	621,635	Mar. 21	2013	449	86	1916
Bicycle-brake	A. W. Diehl	623,996	May 2	78	17	87	717
Bicycle-brake	M. E. Dunbar	635,677	Oct. 24	3175	731	89	674
Bicycle-brake	J. F. A. Farfan	627,912	June 27	3157	691	87	2289
Bicycle-brake	V. L. Glaze	635,926	Oct. 31	3669	847	89	783
Bicycle-brake	E. D. Hinkley	618,572	Jan. 31	3270	726	86	698
Bicycle-brake	J. Jamieson	633,266	Sept. 19	2019	474	88	2131
Bicycle-brake	C. L. Kindsfatter	637,128	Nov. 14	1749	375	89	1296
Bicycle-brake	C. Knafft	327,934	June 27	3200	700	87	2298
Bicycle-brake	J. La Burt	639,408	Dec. 19	2263	522	89	2344
Bicycle-brake	E. S. Leaycraft	637,267	Nov. 21	2013	431	89	1363
Bicycle-brake	B. Löns	620,157	Feb. 28	2492	566, 567	86	1351
Bicycle-brake	J. C. Moore	621,120	Mar. 14	1101	240	86	1726
Bicycle-brake	W. H. S. Moorhouse and D. L. Turner	617,037	Jan. 3	337	79, 80	86	66
Bicycle-brake	H. Paulson	637,821	Nov. 28	3416	714	89	1700
Bicycle-brake	C. J. Pihl	638,271	Dec. 5	128	29, 30	89	1890
Bicycle-brake	P. T. Volkman	634,046	Oct. 3	110	28	89	25
Bicycle-brake	C. A. Wardill	629,056	July 18	2065	481	88	440

Alphabetical list of inventions—Continued.

Invention.	Name.	No.	Date.	Monthly volume. Spec.	Monthly volume. Drg.	Official Gazette. Vol.	Official Gazette. Page.
Bicycle-brake	R. R. Wise	628,059	July 4	180	40	88	36
Bicycle-brake	C. Witte and H. M. Luick	634,421	Oct. 3	848	205	89	170
Bicycle-brake	O. O. Zimmerman	624,285	May 2	628	137	87	818
Bicycle brake and clutch	L. Conwell	619,721	Feb. 21	1704	390	86	1186
Bicycle brake and coaster	W. Morris	639,265	Dec. 19	1972	455	89	2285
Bicycle-chain	D. R. Berry and W. P. Bonnell, Jr	628,386	July 4	816	190	88	156
Bicycle-chain	W. A. Church	624,177	May 2	430	88	87	782
Bicycle-chain	C. B. Holmes	639,575	Dec. 19	2560	588	89	2404
Bicycle-chain adjustment	A. T. Harris	633,195	Sept. 19	1871	441	88	2102
Bicycle-chain cleaner	E. B. Gibford	628,087	July 4	236	54	88	48
Bicycle-chains, &c. Coupling for	M. L. Williams	623,856	Apr. 25	3072	707	87	646
Bicycle. Chainless	J. Hana	636,260	Nov. 7	65	14	89	935
Bicycle. Chainless	A. H. T. Hansen	633,451	Sept. 19	2366	557	88	2198
Bicycle. Chainless	W. K. Kennard	624,500	May 9	1022	230, 231	87	919
Bicycle. Chainless	F. E. Mathewson	632,581	Sept. 5	679	157	88	1841
Bicycle. Chainless	O. N. Olson, C. H. Smith, and W. C. Belina.	622,780	Apr. 11	1070	249	87	222
Bicycle chainless gearing	C. W. Hamilton	618,870	Feb. 7	99	21	86	824
Bicycle changeable gear	W. Lane and A. Doney	625,111	May 16	2127	483	87	1151
Bicycle-cleaner in form of a glove	T. C. Martin	617,755	Jan. 17	1697	381	86	370
Bicycle cleaning and repairing stand	C. Colsten	625,746	May 30	3246	737	87	1411
Bicycle coin-controlled lock and holder	H. G. Shultz	617,693	Jan. 10	1580	357	86	327
Bicycle-connecting frame	J. C. Schleicher	639,943	Dec. 26	3234	741	89	2556
Bicycle construction	H. H. Baker, Jr	624,442	May 9	910	205	87	900
Bicycle. Convertible	A. F. Sternberg	625,612	May 23	2995	682, 683	87	1344
Bicycle-coupling	F. Barto	618,769	Jan. 31	3611	807	86	766
Bicycle coupling device	F. N. Mackay	636,155	Oct. 31	4123	943, 944, 945	89	873
Bicycle-crank	J. Bulova	631,276	Aug. 22	2883	652	88	1341
Bicycle-crank	E. D. Peerstone	626,630	June 6	728	168	87	1756
Bicycle-crank	E. Reynolds	629,921	Aug. 1	342	75	88	789
Bicycle crank and bearing	J. H. Rathbun	630,072	Aug. 1	662	142	88	854
Bicycle crank attachment	L. B. Gaylor	626,227	June 6	22	5	87	1619
Bicycle crank-hanger	W. H. Fauber	624,636	May 9	1265	282, 283	87	967
Bicycle crank-shaft	W. W. Annable	622,644	Apr. 4	836	193	87	159
Bicycle crank-shaft	W. H. Penseyres	619,339	Feb. 14	1009	228	86	1027
Bicycle crank-shaft	W. H. Penseyres	619,499	Feb. 14	1294	297	86	1082
Bicycle cushion attachment	W. B. Spencer	628,864	July 11	1715	401	88	354
Bicycle dress-guard	G. T. Heineke	620,651	Mar. 7	204	42	86	1541
Bicycle drive-chains. Protecting-casing for	J. D. Farmer	617,683	Jan. 10	1561	354	86	322
Bicycle driving-gear	F. Bartlett	632,623	Sept. 5	744	170	88	1853
Bicycle driving-gear	J. Brough	626,525	June 6	562	130	87	1723
Bicycle driving-gear	A. Doyle	630,198	Aug. 1	867	187	88	894
Bicycle driving-gear	A. Gower	617,095	Jan. 3	450	109	86	88
Bicycle driving-gear	F. C. Harding	634,942	Oct. 17	1759	418	89	382
Bicycle driving-gear	C. A. La Grave	618,691	Jan. 31	3484	778, 779	86	740
Bicycle driving-gear	N. K. Peoples	620,797	Mar. 7	480	100, 101	86	1595
Bicycle driving-gear	E. C. Pohlé	625,600	May 23	2977	676	87	1341
Bicycle driving-gear	J. A. N. and C. B. H. Rasmussen	621,136	Mar. 14	1137	246	86	1733
Bicycle driving-gear	H. F. Sheldon	627,811	June 27	2971	650	87	2250
Bicycle driving-gear	C. H. Sperle	629,622	July 25	3116	725	88	662
Bicycle driving-gear	W. J. Thompson	620,003	Feb. 21	2210	503	86	1282
Bicycle driving-gear	C. Westall	629,635	July 25	3132	729	88	665
Bicycle driving mechanism	W. H. Abercrombie	633,409	Sept. 19	2299	540	88	2185
Bicycle driving mechanism	J. A. Birchler	617,873	Jan. 17	1944	436	86	418
Bicycle driving mechanism	J. M. Carlsson and E. A. O. Göthe	622,668	Apr. 11	889	204, 205	87	188
Bicycle driving mechanism	G. Johnson	619,421	Feb. 14	1163	262	86	1056
Bicycle driving mechanism	R. H. Plass	628,184	July 4	425	100, 101	88	86
Bicycle driving mechanism	J. and J. Riddett	623,107	Apr. 11	1680	388	87	340
Bicycle driving mechanism	R. F. Robison	639,295	Dec. 19	2037	469	89	2299
Bicycle driving mechanism	A. F. A. Roxendorff	619,507	Feb. 14	1308	300	86	1086
Bicycle driving mechanism	A. F. A. Roxendorff	627,881	June 27	3101	678	87	2274
Bicycle-fastener	R. Lewis	624,951	May 16	1843	414	87	1098
Bicycle-fastener	A. E. Veon	627,314	June 20	2033	446	87	2049
Bicycle-fitting	W. H. Crosby and E. Ehler	638,865	Dec. 12	1258	285	89	2131
Bicycle folding-basket attachment	H. A. McDonald and S. Norton	617,117	Jan. 3	495	118, 119	86	97
Bicycle folding rack	G. T. Murray	619,775	Feb. 21	1801	413	86	1204
Bicycle fork-crown	C. H. Smith	616,980	Jan. 3	211	48	86	41
Bicycle-frame	H. Dixon	640,113	Dec. 26	3551	816, 817	89	2622
Bicycle-frame	P. F. Duffy	633,127	Sept. 19	1750	412	88	2077
Bicycle, &c., frame	J. Hughes and B. Ibbotson	630,232	Aug. 1	921	202	88	904
Bicycle-frame	I. R. Johnson	634,823	Oct. 10	1554	365, 366	89	325
Bicycle-frame	H. Laviers	638,396	Dec. 5	404	85	89	1943
Bicycle-frame	H. W. Libbey	634,089	Oct. 3	185	46	89	41
Bicycle-frame	T. J. Lindsay	619,322	Feb. 14	991	224	86	1024
Bicycle-frame	T. D. McCall	629,585	July 25	3048	711	88	649
Bicycle-frame	V. H. and J. H. T. Mills	625,456	May 23	2735	622	87	1292
Bicycle-frame	J. C. Parker	622,066	Mar. 28	2834	639	86	2091
Bicycle-frame	J. A. Reed	617,604	Jan. 10	1415	321	86	294
Bicycle frame and gear case	F. H. Nies and W. Dunn	622,526	Apr. 4	622	145	87	118
Bicycle-frame case	H. C. Morang	636,053	Oct. 31	3909	897	89	831
Bicycle-frame flush-joint. Tubular	C. S. Smith	626,309	June 6	164	40	87	1644
Bicycle-frame joint	H. Belcher and F. Easom	620,833	Mar. 7	548	117	86	1609
Bicycle-frame joint	H. Belcher and F. Easom	620,834	Mar. 7	550	117	86	1610
Bicycle-frame rear bracket	J. S. Copeland	639,531	Dec. 19	2473	570, 571	89	2386

Alphabetical list of inventions—Continued.

Invention.	Name.	No.	Date.	Monthly volume.		Official Gazette.	
				Spec.	Dr'g.	Vol.	Page.
Bicycle friction-gear	T. F. Feeny	633,130	Sept. 19	1753	413	88	2078
Bicycle-gear	M. T. Borden	627,897	June 27	3122	684	87	2279
Bicycle-gear	W. Bowers	617,392	Jan. 10	1032	235	86	220
Bicycle-gear	W. K. Cowan	633,753	Sept. 26	2927	680	88	2321
Bicycle-gear	C. G. Evans	618,856	Feb. 7	67	14, 15	86	817
Bicycle-gear	H. M. Kolb and C. Foehl	621,925	Mar. 28	2587	583	86	2042
Bicycle-gear	C. Whitney and A. C. Lazarus	621,883	Mar. 28	2506	559, 560	86	2028
Bicycle-gear. Changeable	W. Lane and A. Doney	630,291	Aug. 1	1033	227	88	926
Bicycle-gear-changing device	L. Oberhammer	624,964	May 16	1865	419	87	1103
Bicycle-gear. Chainless	K. Brooks	617,635	Jan. 10	1469	336	86	305
Bicycle-gear-supporting mechanism	C. P. Crutchfield	622,758	Apr. 11	1035	240	87	216
Bicycle-gearing	C. Bew	621,740	Mar. 21	2226	501	86	1959
Bicycle-gearing	J. A. Caldwell	627,977	July 4	34	7	88	9
Bicycle-gearing	W. Greiner	623,780	Apr. 25	2920	667, 668	87	617
Bicycle-gearing	F. C. Harding	622,679	Apr. 11	909	210	87	192
Bicycle-gearing	J. N. Newsom	628,839	July 11	1673	390	88	347
Bicycle-gearing	E. A. Oakman	633,149	Sept. 19	1790	421, 422	88	2085
Bicycle-gearing	G. A. Stiles	635,082	Oct. 17	2037	481	89	439
Bicycle-gearing	W. A. Tickner	620,060	Feb. 21	2320	527	86	1303
Bicycle-gearing	V. Weber	634,252	Oct. 3	528	134	89	106
Bicycle-gearing	S. H. Weller	635,453	Oct. 24	2781	635	89	598
Bicycle-gearing. Chainless	A. H. Jocelyn	620,929	Mar. 14	725	160, 161	86	1655
Bicycle-grip	F. A. Briggs	630,649	Aug. 8	1764	397	88	1079
Bicycle-grip	B. F. Taylor	635,084	Oct. 17	2041	482	89	440
Bicycle-guard	W. J. Chapman	634,520	Oct. 10	1027	245, 246	89	223
Bicycle-guard	B. C. Crane	626,145	May 30	4083	931	87	1567
Bicycle handle-bar	W. H. Castle	624,296	May 2	642	141	87	822
Bicycle handle-bar	J. T. Fenton	626,602	June 6	686	158, 159	87	1747
Bicycle handle-bar	J. T. Fenton	627,227	June 20	1863	408	87	2014
Bicycle handle-bar	L. B. Gaylor	624,643	May 9	1274	285	87	969
Bicycle handle-bar	E. H. Jones and G. W. Tarver	624,657	May 9	1298	289	87	974
Bicycle handle-bar	W. E. Kelly	622,490	Apr. 4	547	128	87	103
Bicycle handle-bar	M. A. Kleinsteuber	631,645	Aug. 22	3556	802	88	1476
Bicycle handle-bar	J. M. Marty, Jr	624,232	May 2	536	114	87	801
Bicycle handle-bar	E. Phipps	639,765	Dec. 26	2925	674	89	2495
Bicycle handle-bar	G. A. Rosenbauer and J. P. Schowalter.	621,946	Mar. 28	2621	591	86	2048
Bicycle handle-bar	F. Schrader	628,897	July 11	1786	415	88	367
Bicycle handle-bar. Adjustable	J. Alexander	622,938	Apr. 11	1362	312	87	278
Bicycle handle-bar. Adjustable	J. Alexander	625,308	May 23	2477	562	87	1243
Bicycle handle-bar. Adjustable	J. M. Blashfield	619,126	Feb. 7	625	134	86	933
Bicycle handle-bar. Adjustable	M. H. Vanevera	620,684	Mar. 7	261	53	86	1553
Bicycle handle-bar. Adjustable	A. S. Vose	619,452	Feb. 14	1215	276	86	1066
Bicycle handle-bar attachment	H. T. Miller	637,400	Nov. 21	2275	490	89	1415
Bicycle handle-bar-grip clamp	J. E. Robinson	626,633	June 6	739	170	87	1758
Bicycle handle-bar stems. Expander for	C. H. Burk	631,765	Aug. 22	3792	844	88	1516
Bicycle-harness	J. C. Bean	638,861	Dec. 12	1251	283	89	2129
Bicycle-harness	F. E. Blackman	636,108	Oct. 31	4044	925	89	857
Bicycle harness attachment	A. Herman	635,683	Oct. 24	3186	733	89	676
Bicycle-holder	S. Elliott	625,657	May 23	3077	700	87	1360
Bicycle-holder	M. Gessler	629,850	Aug. 1	177	41	88	755
Bicycle-holder	G. Henderson and C. L. Hibbard	618,507	Jan. 31	3156	697	86	677
Bicycle-holder	C. Mee, Sr	620,714	Mar. 7	326	67	86	1565
Bicycle holder and fastener	W. B. Gregory	621,072	Mar. 14	1008	221, 222	86	1708
Bicycle hub and bearing	W. N. Whitely	633,542	Sept. 19	2513	590, 591	88	2226
Bicycle integral crank-hanger and rear fork	W. H. Fauber	619,550	Feb. 14	1370	315, 316	86	1097
Bicycle-lamp bracket	J. A. Mosher	624,845	May 9	1655	374	87	1044
Bicycle-lamp bracket	F. B. Waibel and H. Meytrott	632,858	Sept. 12	1229	282	88	1967
Bicycle-lamp bracket	C. E. Whitmarsh	623,453	Apr. 18	2315	530	87	483
Bicycle-lock	H. J. Breeze	620,221	Feb. 28	2610	593	86	1372
Bicycle-lock	M. F. Cunningham	620,700	Mar. 7	301	60	86	1559
Bicycle-lock	P. Fehling	639,196	Dec. 12	1852	426	89	2246
Bicycle-lock	H. C. Ford	636,128	Oct. 31	4086	935	89	866
Bicycle-lock	C. A. Hall	626,656	June 6	791	180	87	1768
Bicycle-lock	S. C. Houghton	623,084	Apr. 11	1614	371	87	329
Bicycle-lock	L. T. Lapaugh	624,949	May 16	1840	414	87	1098
Bicycle-lock	O. von Nordhausen	640,017	Dec. 26	3368	771	89	2584
Bicycle luggage-carrier	I. D. Alderman	628,294	July 4	651	151	88	126
Bicycle luggage-carrier	V. L. Moore	624,669	May 9	1319	294	87	978
Bicycle. Military	J. C. Anderson	633,745	Sept. 26	2913	676	88	2319
Bicycle. Military	J. C. Anderson	633,748	Sept. 26	2919	678, 679	88	2320
Bicycle. Motor-	J. F. Reders	626,440	June 6	416	99	87	1694
Bicycle motor attachment	E. J. Pennington	626,295	June 6	137	34	87	1640
Bicycle-movement	H. W. E. Brauer and M. Jaspersen	636,624	Nov. 7	711	155	89	1065
Bicycle mud-guard	R. A. M. Hermann	617,504	Jan. 10	1218	277	86	257
Bicycle mud-guard	P. Stauch	621,168	Mar. 14	1182	257	86	1743
Bicycle or like vehicle frame	L. B. Smyser	629,401	July 25	2700	628	88	582
Bicycle or similar machine	J. A. Kelly	617,578	Jan. 10	1370	311	86	285
Bicycle or velocipede. Water	A. Marx	638,132	Nov. 28	4023	847	89	1820
Bicycle package-carrier	E. Härting	625,673	May 23	3102	705	87	1365
Bicycle package-carrier	W. H. Marley	633,386	Sept. 19	2255	532	88	2176
Bicycle packing-case	W. Bylandt-Rheydt	633,070	Sept. 12	1599	372	88	2037
Bicycle parasol attachment	J. H. Harrison and W. Brown	617,096	Jan. 3	451	109	86	88
Bicycle parcel-carrier	A. L. Bancroft	621,772	Mar. 21	2291	515	86	1970
Bicycle parcel-carrier	J. M. Certain	639,708	Dec. 26	2812	649	89	2472
Bicycle parcel-carrier	F. E. Liley and C. E. Hennies	618,944	Feb. 7	271	57	86	863
Bicycle parcel-carrier	W. D. McCormick	629,111	July 18	2179	505	88	462

Alphabetical list of inventions—Continued.

Invention.	Name.	No.	Date.	Monthly volume. Spec.	Monthly volume. Drg.	Official Gazette. Vol.	Official Gazette. Page.
Bicycle parcel-carrier	W. H. White	619,376	Feb. 14	1076	242	86	1040
Bicycle-path maker	F. W. Shoecraft	628,363	July 4	777	181	88	149
Bicycle-pedal	E. Baker	622,032	Mar. 28	2786	628	86	2082
Bicycle-pedal	T. Behan	626,045	May 30	3870	877	87	1528
Bicycle-pedal	R. B. Garcia	622,947	Apr. 11	1374	315	87	280
Bicycle-pedal	L. C. Howard	626,165	May 30	4128	940	87	1576
Bicycle-pedal	J. F. Stauffer	639,458	Dec. 19	2355	543	89	2363
Bicycle-pedal	C. D. Walker	625,619	May 23	3018	687	87	1349
Bicycle pedal attachment	H. R. Sieverkropp	634,591	Oct. 10	1157	275	89	247
Bicycle pedal attachment	H. R. Sieverkropp	634,592	Oct. 10	1157	275	89	248
Bicycle pedal attachment	H. R. Sieverkropp	638,649	Dec. 5	866	189	89	2033
Bicycle pedal-clip	G. A. Wheeler	638,407	Dec. 5	421	88	89	1946
Bicycle-pedal stirrup	C. F. Whaley	621,191	Mar. 14	1221	268	86	1751
Bicycle-pedals, &c. Foot-grip for	A. G. Tomkies	629,627	July 25	3121	726	88	663
Bicycle-pedals. Removable toe-clip for	T. J. Rush	630,743	Aug. 8	1911	431	88	1108
Bicycle propelling device	J. Heimlich	621,666	Mar. 21	2083	465, 466	86	1931
Bicycle propelling mechanism	G. F. Beebe	617,390	Jan. 10	1028	234	86	219
Bicycle propelling mechanism	W. J. Bosch	617,631	Jan. 10	1458	332	86	303
Bicycle propelling mechanism	E. B. Parkhurst	632,536	Sept. 5	608	140	88	1828
Bicycle propelling mechanism	S. Stech	627,240	June 20	1882	413	87	2018
Bicycle propulsion	A. R. Anderson	627,086	June 20	1618	354	87	1965
Bicycle propulsion	C. O. Anderson	623,962	May 2	1	1	87	703
Bicycle propulsion	J. J. Stafford	625,906	May 30	3566	809	87	1472
Bicycle-pump	K. Buxbaum	632,696	Sept. 12	932	217	88	1906
Bicycle-pump	F. S. Chase	617,954	Jan. 17	2091	469	86	448
Bicycle-pump	F. H. Deknatel and C. J. Spruce	636,118	Oct. 31	4064	929	89	861
Bicycle-pump	A. B. Guinnip	636,522	Nov. 7	516	114	89	1025
Bicycle-pump	H. Leineweber	624,663	May 9	1306	291	87	975
Bicycle-pump	W. M. McKown	619,602	Feb. 14	1453	334	86	1111
Bicycle-pump	D. B. Smith	634,961	Oct. 17	1805	428	89	392
Bicycle-pump. Automatic	P. Hanson	632,784	Sept. 12	1098	254	88	1940
Bicycle-pump. Automatically-operated	J. S. Bubb	631,773	Aug. 29	3811	849	88	1533
Bicycle-pump. Coin-controlled	L. S. Brown	626,268	June 6	82	20, 21	87	1630
Bicycle-pump. Coin-controlled	C. A. Macy	631,802	Aug. 29	3861	861	88	1543
Bicycle pump connection	A. A. Histed and C. Mershon	628,065	July 4	91	18	88	19
Bicycle-pump-hose attachment	H. Leineweber	624,664	May 9	1306	291	87	976
Bicycle-rack	E. S. Barnett	623,967	May 2	9	2	87	704
Bicycle-rack	M. Hamilton	623,245	Apr. 18	1338	444	87	406
Bicycle-rack	R. Hayden	627,751	June 27	2872	627	87	2232
Bicycle-rack	D. G. Martin	624,231	May 2	534	114	87	801
Bicycle-rack	H. L. Wilcox	620,863	Mar. 7	609	132	86	1622
Bicycle-rack and locking device	C. Butcher	636,629	Nov. 7	721	158	89	1067
Bicycle-rack and locking device	C. Butcher	639,517	Dec. 19	2447	565	89	2381
Bicycle. Railway-	W. B. Turner	638,822	Dec. 12	1188	266	89	2118
Bicycle ratchet-gear	F. E. B. Beaumont	633,417	Sept. 19	2312	543	88	2188
Bicycle repair-link	J. C. Jenkins	626,383	June 6	326	75	87	1676
Bicycle-rest	A. G. Shields	633,046	Sept. 12	1565	364	88	2030
Bicycle-rims. Machine for applying nipple-washers to	W. R. Fox	636,654	Nov. 7	768	167, 168	89	1077
Bicycle running on rails	P. Wagner	626,580	June 6	651	151	87	1741
Bicycle-saddle	F. C. Avery	623,505	Apr. 25	2409	553	87	521
Bicycle-saddle	F. C. Avery	636,312	Nov. 7	147	32	89	950
Bicycle-saddle	T. E. Beck	617,140	Jan. 3	544	129	86	107
Bicycle-saddle	P. Brodie	621,895	Mar. 28	2532	571	86	2033
Bicycle-saddle	W. H. Craig	629,956	Aug. 1	425	92	88	806
Bicycle-saddle	O. B. Darling	618,601	Jan. 31	3318	738	86	708
Bicycle-saddle	W. L. Davis	623,238	Apr. 18	1924	442	87	404
Bicycle-saddle	W. C. Gates	628,704	July 11	1440	334	88	300
Bicycle-saddle	J. L. Hitchcock and C. Galbraith	622,357	Apr. 4	273	63	87	52
Bicycle-saddle	G. P. Holden	621,607	Mar. 21	1968	439	86	1907
Bicycle-saddle	J. A. Hunt	619,179	Feb. 7	729	158	86	954
Bicycle-saddle	R. Lewis, Jr	619,768	Feb. 21	1789	410	86	1202
Bicycle-saddle	W., Jr., and A. F. Meisselbach	620,946	Mar. 14	760	167	86	1662
Bicycle-saddle	J. D. Moore	630,911	Aug. 15	2211	504	88	1192
Bicycle-saddle	W. N. Moore	619,204	Feb. 7	773	167, 168	86	963
Bicycle-saddle	M. J. O'Farrell	617,654	Jan. 10	1505	342	86	313
Bicycle-saddle	F. B. Ray	634,910	Oct. 17	1710	404	89	373
Bicycle-saddle	J. C. Reuter	621,139	Mar. 14	1140	247	86	1734
Bicycle-saddle	J. C. Reuter	621,140	Mar. 14	1142	247	86	1735
Bicycle-saddle	L. L. Rowe	635,598	Oct. 24	3030	696	89	644
Bicycle-saddle	E. A. Smith	618,240	Jan. 24	2650	585, 586	86	565
Bicycle-saddle	W. S. Upson	620,620	Mar. 7	130	26	86	1527
Bicycle-saddle	W. H. F. Young	619,244	Feb. 7	842	185	86	978
Bicycle saddle-carriage	C. E. Vail	627,548	June 27	2493	548	87	2156
Bicycle saddle-clip	H. R. Cressman	625,873	May 30	3504	795	87	1461
Bicycle-saddle coverings. Binding for	W., Jr., and A. F. Meisselbach	638,519	Dec. 5	630	131	89	1987
Bicycle-saddle. Pneumatic	J. J. Monahan	633,142	Sept. 19	1779	419	88	2083
Bicycle-saddle. Pneumatic	L. Widdershoven	626,644	June 6	764	175	87	1762
Bicycle saddle-post	J. T. Fenton	623,774	Apr. 25	2912	666	87	616
Bicycle saddle-spring	S. A. Bailey	620,012	Feb. 21	2234	507	86	1287
Bicycle saddle-spring	J. S. Voltz	624,269	May 2	597	129	87	812
Bicycle saddle-support	M. A. Baker	627,451	June 20	2311	510	87	2103
Bicycle saddle-support	D. W. O'Connor	640,165	Dec. 26	3638	838	89	2640
Bicycle safety attachment	A. G. Wilkins and L. E. Moore	617,136	Jan. 3	535	127	86	105
Bicycle sail attachment	R. Sorensen	639,107	Dec. 12	1685	389	89	2215
Bicycle-seat	A. K. Cross	620,284	Feb. 28	2716	623	86	1394
Bicycle-seat	A. M. Cushing	622,913	Apr. 11	1314	302	87	268
Bicycle-seat	J. R. Knapp	633,322	Sept. 19	2138	501	88	2154
Bicycle seat or handle-bar spring-post	W. N. Amory	627,676	June 27	2735	599	87	2203
Bicycle seat-post	L. E. Crandall	620,422	Feb. 28	2948	676	86	1437
Bicycle seat-post	A. Johnson	626,811	June 13	1089	245	87	1843
Bicycle seat-post	H. T. Miller	629,697	July 25	3239	754	88	685
Bicycle-seat. Supplemental	F. T. T. Stanier	621,722	Mar. 21	2186	491	86	1951

Alphabetical list of inventions—Continued.

Invention.	Name.	No.	Date.	Monthly volume.		Official Gazette.	
				Spec.	Dr'g.	Vol.	Page.
Bicycle shoulder-brace	D. M. Taulbee	626,736	June 13	947	215	87	1816
Bicycle signaling and tire-inflating means	H. H. Pattee	624,079	May 2	241	50	87	748
Bicycle-skate	J. A. Reece	619,225	Feb. 7	806	175	86	970
Bicycle sled attachment	A. Nelson	633,030	Sept. 12	1539	358	88	2025
Bicycle speed-gearing	J. B. Howe	636,385	Nov. 7	270	60	89	975
Bicycle-speeder	W. R. Gulick	629,032	July 18	2024	471	88	432
Bicycle spring-frame	A. J. Cuming	633,121	Sept. 19	1735	408	88	2075
Bicycle spring-frame	W. J. Pierce	621,942	Mar. 28	2616	590	86	2047
Bicycle. Spring-frame	W. B. Spencer	635,028	Oct. 17	1919	457	89	414
Bicycle sprocket-wheel	F. W. Wunderlich	617,797	Jan. 17	1798	403	86	389
Bicycle-stand	H. Bush	631,948	Aug. 29	4100	919	88	1589
Bicycle-stand	W. H. Butler	623,981	May 2	48	10	87	711
Bicycle-stand	H. Cifka	633,806	Sept. 26	3005	699	88	2338
Bicycle-stand	W. M. Potter	631,665	Aug. 22	3588	809	88	1482
Bicycle-stand and lock	A. Amess and M. A. Powlison	632,165	Aug. 29	4512	1016	88	1672
Bicycle-stand lock	J. S. Capen and H. W. Cheney	634,441	Oct. 10	892	215	89	196
Bicycle-stands. Coin-controlled lock for	D. B. Austin	629,759	Aug. 1	3	1	88	721
Bicycle steering device. Tandem	F. L. Bryant	629,335	July 25	2573	596	88	565
Bicycle steering-forks. Construction of	C. J. Russell and W. S. Liming	623,832	Apr. 25	3022	694	87	637
Bicycle-step	G. L. Thompson	625,368	May 23	2584	588	87	1264
Bicycle-support	A. Brown	634,439	Oct. 10	888	214	89	195
Bicycle-support	R. E. Cheesman	627,744	June 27	2859	625	87	2229
Bicycle-support	A. H. Clark	618,394	Jan. 31	2949	653	86	639
Bicycle-support	E. Fowler	635,435	Oct. 24	2750	629	89	591
Bicycle-support	W. H. Hart, Jr	626,693	June 13	872	198	87	1802
Bicycle-support	W. H. Hart, Jr	626,694	June 13	874	198	87	1803
Bicycle-support	W. H. Hart, Jr	626,695	June 13	875	199	87	1803
Bicycle-support	W. H. Hart, Jr	626,696	June 13	876	199	87	1803
Bicycle-support	W. H. Hart, Jr	626,697	June 13	878	199, 200	87	1804
Bicycle-support	W. H. Hart, Jr	634,296	Oct. 3	614	150	89	123
Bicycle-support	W. H. Hart, Jr	634,297	Oct. 3	615	151	89	123
Bicycle-support	W. H. Hart, Jr	634,298	Oct. 3	615	151	89	123
Bicycle-support	W. H. Hart, Jr	636,664	Nov. 7	789	173, 174	89	1081
Bicycle-support	W. H. Hart, Jr	637,254	Nov. 21	1993	427	89	1358
Bicycle-support	B. Hubbell	623,785	Apr. 25	2927	669	87	619
Bicycle-support	E. E. Josef	633,010	Sept. 12	1497	348	88	2017
Bicycle-support	E. Koehler	617,028	Jan. 3	315	74	86	63
Bicycle-support	J. Leach	617,171	Jan. 3	598	140	86	117
Bicycle-support	E. Lindstrom	626,239	June 6	42	10	87	1623
Bicycle-support	S. M. Miller	636,680	Nov. 7	814	180	89	1087
Bicycle-support	C. A. Myers	623,807	Apr. 25	2970	679	87	627
Bicycle-support	S. Neumann	630,068	Aug. 1	657	141	88	853
Bicycle-support	G. W. Newson and J. P. Harris	627,268	June 20	1940	427	87	2030
Bicycle-support	B. Peisen	623,421	Apr. 18	2260	518	87	472
Bicycle-support	H. H. Perkes	633,036	Sept. 12	1552	361	88	2027
Bicycle-support	B. Phelan	628,548	July 11	1129	263	88	238
Bicycle-support	C. H. Ridsdale	631,998	Aug. 29	4194	943, 944	88	1608
Bicycle-support	H. T. Sayer	618,999	Feb. 7	397	82	86	887
Bicycle-support	C. Schreiber	634,480	Oct. 10	961	229, 230	89	210
Bicycle-support	P. A. Shanklin	639,945	Dec. 26	3239	742, 743	89	2557
Bicycle-support	E. B. Shearer	635,873	Oct. 31	3563	820	89	762
Bicycle-support	F. J. Ward	619,646	Feb. 14	1555	354	86	1131
Bicycle-support	J. F. Williams	624,595	May 9	1196	269	87	954
Bicycle-support	W. F. Williams	617,916	Jan. 17	2031	454	86	435
Bicycle-support	F. Wygal	639,804	Dec. 26	2999	690	89	2510
Bicycle-support and lock	G. W. Faunce	618,654	Jan. 31	3422	763	86	728
Bicycle-support and lock	J. P. Hoppert	638,121	Nov. 28	4006	843, 844	89	1816
Bicycle-support and locking device	W. C. Humphreys	628,096	July 4	262	62	88	52
Bicycle-support and tire-cleaner	J. Batten and E. F. Maul	632,800	Sept. 12	1131	261	88	1947
Bicycle support or rest	H. W. Roby	617,448	Jan. 10	1132	258	86	239
Bicycle support or rest	H. W. Roby	619,696	Feb. 14	1649	378	86	1150
Bicycle-supporter	H. Vander Weyde	619,103	Feb. 7	575	123, 124	86	923
Bicycle-supporter	H. Vander Weyde	635,618	Oct. 24	3072	704, 705	89	654
Bicycle tandem attachment	T. J. H. Dermody	637,768	Nov. 28	3313	693, 694	89	1678
Bicycle theft-guard	E. D. Goodson	636,133	Oct. 31	4093	937	89	867
Bicycle toe-clip	T. I. Duffy	625,156	May 16	2196	499	87	1164
Bicycle toe-clip	E. A. Thiem. (Reissue)	11,774	Sept. 19	2545	597	88	2231
Bicycle-trainer	J. Meuli-Hilty	637,398	Nov. 21	2273	489	89	1415
Bicycle, tricycle, &c	F. Cooper	637,371	Nov. 21	2221	477	89	1405
Bicycle trolley-car	J. H. Talbot	638,296	Dec. 5	208	44	89	1906
Bicycle-valve	C. W. Beman	617,272	Jan. 3	779	182	86	153
Bicycle-valve	J. Harrison	617,337	Jan. 10	923	212	86	199
Bicycle variable gear	A. L. Whipple	626,257	June 6	68	16	87	1628
Bicycle variable-speed gear	E. A. Young and I. T. Drake	622,029	Mar. 28	2780	627	86	2080
Bicycle. Water-	A. Marx	636,412	Nov. 7	307	70	89	983
Bicycle-wheel	J. W. Armstrong	624,419	May 2	863	194	87	867
Bicycle-wheel	D. R. C. Devine	626,411	June 6	367	86	87	1685
Bicycle-wheel	J. C. Fleming	620,295	Feb. 28	2736	627	86	1398
Bicycle-wheel	G. Hayes	617,743	Jan. 17	1673	377	86	365
Bicycle-wheel	L. A. Hill	627,118	June 20	1678	368	87	1977
Bicycle-whirl	P. L. Smith	634,857	Oct. 10	1628	380	89	339
Bicycle-wrench nipple-grip	W. Herrick	622,005	Mar. 28	2739	619	86	2073
Bicycles. Adjustable and reversible handle-bar for	G. F. Sayers	617,941	Jan. 17	2066	463	86	443
Bicycles, &c. Adjustable crank for	F. G. Pennock	625,986	May 30	3712	842	87	1500
Bicycles. Changeable speed-gearing for	E. Valade	635,823	Oct. 31	3467	797	89	744
Bicycles. Combined support and mud-guard for	H. Sennstrom	619,796	Feb. 21	1861	424	86	1216
Bicycles. Compound or detachable gear for	J. T. Wells	620,390	Feb. 28	2900	664	86	1429

Alphabetical list of inventions—Continued.

Invention.	Name.	No.	Date.	Monthly volume.		Official Gazette.	
				Spec.	Dr'g.	Vol.	Page.
Bicycles. Convertible breast and back rest for	J. Wood	620,688	Mar. 7	265	54	86	1553
Bicycles, &c. Crank mechanism for	J. H. Atterbury	623,863	Apr. 25	3079	709	87	648
Bicycles. Detachable carrying-bracket for	T. M. Buley and W. W. Wagg	637,762	Nov. 28	3306	691	89	1676
Bicycles, &c. Driving-gear for	A. T. Collier	625,644	May 23	3058	696	87	1357
Bicycles, &c. Frame for	J. A. McKee	628,723	July 11	1464	340	88	305
Bicycles, &c. Luggage-carrier for	H. Tanner	619,913	Feb. 21	2062	467	86	1255
Bicycles. Means for propelling	C. H. Knight	618,206	Jan. 24	2588	572	86	554
Bicycles. Means for storing	M. R. Jewell	639,991	Dec. 26	3335	763 764	89	2576
Bicycles or vehicles. Pneumatic device for	J. W. Perry	621,370	Mar. 21	1551	344	86	1827
Bicycles, &c. Securing device for	L. A. McCord	638,353	Dec. 5	317	66	89	1927
Bicycles. Shed for housing	G. Ehrenberg	636,324	Nov. 7	164	36	89	954
Bicycles. Variable-speed gear for	F. E. B. Beaumont	632,627	Sept. 5	748	172	88	1854
Bib. Child's	C. A. Blank	632,863	Sept. 12	1241	284	88	1969
Bidet	L. E. C. Lelu	628,162	July 4	384	90, 91	88	78
Bier	J. A. St. Jean	638,075	Nov. 28	3884	818	89	1793
Billet-conveyer	J. C. Cromwell	633,572	Sept. 26	2590	607	88	2257
Billiard and dining table. Convertible	A. J. Fox	635,014	Oct. 17	1894	450	89	410
Billiard-cue-chalk holder	C. A. and G. W. McLarty	639,427	Dec. 19	2295	530	89	2350
Billiard-cue chalker	C. W. T. Davies	636,199	Oct. 31	4209	968	89	891
Billiard-cue chalker	C. A. W. and D. Devore	617,231	Jan. 3	700	163	86	137
Billiard-cue holder	F. Beattie	617,221	Jan. 3	682	158	86	133
Billiard-cue tip	W. G. Herz	624,804	May 9	1572	358	87	1026
Billiard-cue tip	J. Stenger	629,217	July 18	2355	547	88	494
Billiard-cue-tip fastener	C. E. Green	626,062	May 30	3896	885	87	1533
Billiard-cushion	D. Kavanagh	629,192	July 18	2313	537	88	487
Billiard-cushion	G. Kern	618,574	Jan. 31	3273	726	86	699
Billiard-table-leveling device	V. Welz	622,028	Mar. 28	2779	627	86	2080
Bin: *See* Flour-bin. Grain-bin. Grocer's bin. Hop-bin. Ore-bin. Storage-bin.							
Bin	C. W. Beehler	638,166	Nov. 28	4084	862	89	1831
Binder	G. J. Cline	629,889	Aug. 1	260	58	88	771
Binder	H. E. Dade	630,668	Aug. 8	1796	405	88	1085
Binder	H. T. Wise	637,689	Nov. 21	3180	659	89	1633
Binder and ledger. Loose-leaf	S. Adler	632,392	Sept. 5	334	76	88	1772
Binder back. Temporary	H. C. Miller	617,758	Jan. 17	1706	383	86	371
Binder. File	C. S. Bowman	630,172	Aug. 1	830	179	88	886
Binder for magazines, &c	E. S. Glover	627,076	June 13	1593	349	87	1941
Binder for pamphlets, &c	A. Meier	623,487	Apr. 18	2374	546	87	495
Binder-frame	H. P. Jones	620,455	Feb. 28	3003	687	86	1448
Binder-frame	H. P. Jones	620,456	Feb. 28	3005	687	86	1448
Binder lock. Temporary	W. A. Jones	635,438	Oct. 24	2754	630	89	592
Binder. Loose-leaf	F. R. Welsh	634,516	Oct. 10	1023	244	89	222
Binder. Order-blank	P. Keil, Jr	627,336	June 20	2069	456 457	87	2057
Binder. Shock	G. Youngs	630,158	Aug. 1	807	174	88	882
Binder. Temporary	O. W. Bachman	624,610	May 9	1220	274	87	959
Binder. Temporary	W. M. Batt	631,771	Aug. 29	3807	848	88	1533
Binder. Temporary	E. W. Cornell	627,484	June 27	2369	522	87	2131
Binder. Temporary	L. E. Curtis	618,498	Jan. 31	3141	694	86	674
Binder. Temporary	G. C. Gennert	636,033	Oct. 31	3869	889	89	822
Binder. Temporary	C. O. Hiscock	632,491	Sept. 5	512	117	88	1808
Binder. Temporary	W. S. Mendenhall	620,159	Feb. 28	2496	567	86	1352
Binder. Temporary	W. S. Mendenhall	620,160	Feb. 28	2497	568	86	1352
Binder. Temporary	H. C. Miller	617,757	Jan. 17	1704	383	86	371
Binder. Temporary	A. W. Rasmussen	623,627	Apr. 25	2631	601	87	561
Binder. Temporary	C. K. Rosenberg	627,762	June 27	2885	631	87	2235
Binder. Temporary	C. T. Rosenthal	619,228	Feb. 7	812	177	86	971
Binder. Temporary	C. T. Rosenthal	621,618	Mar. 21	1986	443	86	1911
Binder. Temporary	W. M. Russell	639,297	Dec. 19	2041	469	89	2299
Binder. Temporary	F. J. Schleede	634,630	Oct. 10	1219	289	89	259
Binder. Temporary	N. Van Sickle	635,409	Oct. 24	2692	617	89	580
Binder. Temporary	W. J. Watters and F. A. Gould	617,066	Jan. 3	400	98	86	78
Binder. Temporary	W. A. Webb	628,134	July 4	335	80	88	68
Binder. Temporary	E. B. Weston	637,309	Nov. 21	2104	454	89	1381
Binders. Clover or flax attachment for self-	W. Bauer	617,073	Jan. 3	413	101	86	80
Binders. Feeding device for self-	W. W. Wallace	638,531	Dec. 5	655	136	89	1991
Binders. Ledger-sheet for detachable	G. C. Shepherd	631,863	Aug. 29	3959	885	88	1564
Binders. Needle attachment for self-	W. A. Glasgow	624,325	May 2	703	156	87	835
Binding and facing. Dress	A. M. Weber	632,383	Sept. 5	321	72	88	1770
Binding. Machine for making dress-	T. E. Perkins	636,693	Nov. 7	838	186	89	1092
Binding machines. Shifting device for self-	W. B. Brown	628,645	July 11	1336	311	88	278
Binding machines. Shifting device for self-	W. B. Brown	628,646	July 11	1339	312	88	279
Binding. Skirt	W. J. Hay	634,264	Oct. 3	554	138	89	111
Binding. Skirt	C. L. Sulzberger	628,368	July 4	785	182	88	151
Bird-call	H. H. Draughon	626,827	June 13	1122	251	87	1849
Biscuit, crackers, &c. Method of and means for packing	F. M. Peters	621,974	Mar. 28	2694	606 607 608	86	2063
Biscuits, cakes, &c. Cutter for	W. A. Hooks	619,749	Feb. 21	1754	402	86	1195
Biscuits. Manufacturing	W. T. Carr	628,449	July 11	937	218	88	200
Bismuth compound and making same	H. Janssen	620,141	Feb. 28	2473	------	86	1347
Bit: *See* Bridle-bit. Curb-bit. Driving and medical bit. Expanding bit. Expansion-bit. Tenoning-bit.							
Bit	W. E. Sell	634,769	Oct. 10	1467	345	89	308
Bit-brace	L. T. Snow	635,902	Oct. 31	3627	836	89	775
Bit-stock	M. Barber and L. F. Kramer	639,842	Dec. 26	3070	705	89	2523
Bit reaming attachment	L. Judson	631,572	Aug. 22	3439	777	88	1452
Bitumen from sand. Method of and apparatus for extracting	A. S. Cooper	617,226	Jan. 3	689	160 161	86	135
Blackboard	T. F. Daly	627,396	June 20	2208	485	87	2083

Alphabetical list of inventions—Continued.

Invention.	Name.	No.	Date.	Monthly volume. Spec.	Monthly volume. Dr'g.	Official Gazette. Vol.	Official Gazette. Page.
Blackboard	W. J. Semelroth	634,149	Oct. 3	310	79	89	65
Blackboard composition	T. H. Blacknall and W. T. Jordan	638,008	Nov. 28	3768	------	89	1770
Blackboard composition	J. J. Nugent	625,894	May 30	3540	------	87	1467
Blackboard-liner. Adjustable	W. L. Murphy	623,805	Apr. 25	2967	678	87	626
Blackboard. Revolving	M. W. Tubbs	625,615	May 23	2999	684	87	1345
Blackboards or slates. Writing-surface for	W. H. Keeran	633,551	Sept. 19	2532	------	88	2229
Blacking chair. Boot-	A. C. and L. J. Holmes	627,851	June 27	3045	665	87	2265
Blacking chair. Shoe-	G. S. Burns and S. H. Minnick	633,422	Sept. 19	2320	547	88	2189
Blacking composition	P. Emanual, H. Wächter, and H. Zugt.	625,253	May 16	2373	------	87	1198
Blacking device. Shoe-	T. E. Lister	636,211	Oct. 31	4235	974	89	896
Blacking machine. Boot-	F. H. Farmer	621,236	Mar. 14	1306	289	86	1768
Blacking machine. Boot-	A. E. Watkins	636,421	Nov. 7	329	74	89	987
Bladder	C. E. Longden	634,302	Oct. 3	626	152	89	125
Blank-feeding device	C. H. Fogg	629,441	July 25	2767	642, 643	88	595
Blank. Negotiable-instrument	M. J. Stein	622,902	Apr. 11	1300	299	87	265
Blankets, &c. Fastening device for	G. M. Hubbard	621,676	Mar. 21	2109	470	86	1936
Blast-furnace	C. S. Robinson	632,147	Aug. 29	4485	1010	88	1667
Blast-furnace	M. M. Suppes	627,545	June 27	2489	547	87	2155
Blast-furnace	M. M. Suppes	635,157	Oct. 17	2191	511, 512	89	467
Blast-furnace. Gas	D. Tschernoff	637,432	Nov. 21	2334	504	89	1428
Blasting operations. Combined knife, clench, and punch for use in	D. Whitburn	639,121	Dec. 12	1710	394	89	2220
Bleaching	H. Hadfield	635,248	Oct. 17	2339	546	89	495
Blind-fastener	E. Hughes	632,571	Sept. 5	666	154	88	1838
Blind-fastener	E. Praeger	618,995	Feb. 7	390	81	86	886
Blind-fastener	S. Walker	623,266	Apr. 18	1987	455	87	416
Blind-fastening device	H. Spencer, Jr.	621,588	Mar. 21	1935	433	86	1901
Blind. Roller-	M. T. Sharp	618,441	Jan. 31	3040	672	86	654
Blind. Rolling	R. Richter	629,524	July 25	2947	685	88	630
Blind-slat rod	J. P. Kooy	633,013	Sept. 12	1502	349	88	2018
Blind-slat tenon	A. D. Miller	617,468	Jan. 10	1162	265	86	245
Blind spring-roller. Window-	W. Swarbrick	625,366	May 23	2580	587	87	1263
Blind-stop	T. F. Hickey	636,262	Nov. 7	67	15	89	936
Blind. Window-	P. A. Lathem	633,521	Sept. 19	2476	583	88	2219
Blinds, signal-lamps, &c. Device for raising or lowering window-	J., A., and D. Skelly	636,296	Nov. 7	124	27	89	947
Blinds, sunshades, &c. Roller for window	W. C. Kincaid	638,969	Dec. 12	1444	330	89	2169
Block: *See* Building-block. Chopping-block. Filling-block. Fuse-block. Last-block. Paving-block. Plaster-block. Printing-block. Tackle-block. Thrust-block.							
Block for building moles, dams, piers, &c	N. R. Jeckel	637,935	Nov. 28	3632	761, 762	89	1744
Block-signal and train-stopping device. Automatic	S. J. McCart	638,026	Nov. 28	3818	802, 803	89	1780
Block-signal system. Electric	S. H. Hall	634,816	Oct. 10	1541	362, 363	89	322
Block-signal system. Telegraphic	W. C. Taber	635,820	Oct. 31	3459	796	89	743
Blotter	F. C. Butler	627,479	June 27	2363	520	87	2130
Blotter-bath and absorbent material therefor	H. M. Adams	637,985	Nov. 28	3716	782	89	1760
Blotter-holding device	J. M. Rix	634,765	Oct. 10	1462	344	89	307
Blotting-paper holder	G. W. Huber	617,747	Jan. 17	1681	378	86	367
Blouse or waist and skirt and belt connector	M. Lang	632,923	Sept. 12	1363	314	88	1990
Blow-off protector	E. Mather	630,386	Aug. 8	1263	275	88	985
Blow-overs. Apparatus for removing	E. P. Gleason	617,333	Jan. 10	915	211	86	198
Blow-overs. Device for removing	E. P. Gleason	617,334	Jan. 10	917	211	86	198
Blowpipe	L. Austin	636,100	Oct. 31	4032	923	89	855
Blowpipe	W. S. Filley	617,729	Jan. 17	1652	371	86	361
Blowpipe	M. P. Freddy	626,603	June 6	688	159	87	1748
Blowpipe	T. G. Lewis	633,859	Sept. 26	3104	720	88	2358
Blowpipe. Vapor-	W. E. Hewit	628,222	July 4	484	116	88	97
Blow-tester. Coin-controlled	J. T. Melson	633,464	Sept. 19	2384	561	88	2202
Blower	C. H. Bicalky	629,121	July 18	2194	509	88	465
Blower	M. H. Littell	627,858	June 27	3057	668	87	2267
Blower. Pressure-	A. W. and L. W. Case	621,030	Mar. 14	949	206	86	1698
Blower. Rotary	T. W. Green	622,949	Apr. 11	1376	316	87	281
Blower. Rotary	E. D. Johnston	624,943	May 16	1834	411	87	1096
Blower. Steam-	C. S. Farrer	631,007	Aug. 15	2387	543	88	1226
Blower. Steam and air	E. Fales	627,725	June 27	2823	618, 619	87	2221
Blowing-engine	E. E. Slick	620,983	Mar. 14	845	185	86	1677
Board: *See* Bread-board. Bread or pastry board. Bulletin-board. Dough-board. Game-board. Ironing-board. Lap-board. Plaster-board. Pressing-board. Scoring-board. Sounding-board. Teeter-board. Wagon grain-board. Washboard. Whist-board. Wind-board.							
Boat	G. M. Waters	637,052	Nov. 14	1578	340, 341	89	1265
Boat adapted to operate on land or in water	J. P. Boulesque	633,065	Sept. 12	1589	370, 371	88	2035
Boat-bottom grating	L. Cailleaud	637,080	Nov. 14	1633	353	89	1275
Boat-canopy	J. C. Harlow	617,571	Jan. 10	1556	306	86	283
Boat-decking	R. B. Hamel	636,382	Nov. 7	265	59	89	974
Boat-detaching apparatus. Hook for	C. Mackeprang, A. F. Petersen, and J. F. Möller.	629,383	July 25	2658	617	88	573
Boat elevator. Canal-	T. G. Hoech	619,043	Feb. 7	466	97,98	86	900
Boat. Folding	E. C. F. James	638,338	Dec. 5	287	59	89	1921

Alphabetical list of inventions—Continued.

Invention.	Name.	No.	Date.	Monthly volume. Spec.	Monthly volume. Dr'g.	Official Gazette. Vol.	Official Gazette. Page.
Boat. Life-	H. S. Carley	627,979	July 4	37	8	88	10
Boat. Life-	J. Huebner	629,365	July 25	2628	610	88	566
Boat. Life-	L. W. Myers	637,940	Nov. 28	3640	763	89	1745
Boat lowering and detaching apparatus	G. S. A. Ranking	640,027	Dec. 26	3386	776	89	2588
Boat-lowering apparatus	A. Des-Fours	631,066	Aug. 15	2505	567	88	1250
Boat-lowering appliance	F. R. Patey	631,226	Aug. 15	2775	628	88	1303
Boat-mooring device	B. J. Christensen	632,238	Sept. 5	18	5	88	1712
Boat-motor. Portable	G. F. Atwood	638,542	Dec. 5	671	140, 141	89	1994
Boat. Portable folding	J. Osmond	624,375	May 2	779	175	87	850
Boat raising or lowering apparatus. Ship's	W. McQuoid, Jr	623,810	Apr. 25	2976	681	87	628
Boat supporting and launching device. Ship's	H. J. Matson	621,611	Mar. 21	1974	441	86	1908
Boats from vessels. Means for launching life-	J. Pollitz and E. H. Cox	634,028	Oct. 3	82	22	89	21
Boats in upright position. Device for holding	T. Emerson	622,336	Apr. 4	242	55	87	46
Bobbin	H. A. Mack	632,132	Aug. 29	4460	1004	88	1661
Bobbin	F. Parker	625,194	May 16	2256	513	87	1176
Bobbin and thread holder	T. J. Murdock	622,703	Apr. 11	949	219	87	200
Bobbin-carrier	H. Janssen	618,541	Jan. 31	3215	713	86	688
Bobbin-carrier	H. Janssen	618,542	Jan. 31	3216	713	86	688
Bobbin-holder and thread-catcher	J. Roney	632,473	Sept. 5	477	108	88	1802
Bobbin-latch	H. C. Fowler	634,662	Oct. 10	1276	301	89	272
Bobbins. Equalizing driving device for	J. E. Tynan	619,806	Feb. 21	1875	428	86	1219
Bobbins in shuttles. Machine for inserting	J. J. Sonderegger	629,308	July 18	2506	584, 585, 586	88	522
Body-brace	J. H. Kellogg	633,596	Sept. 26	2649	618, 619	88	2266
Body-brace	M. Lyons	639,072	Dec. 12	1610	370	89	2199
Bog-cutter	A. Anderson	620,559	Mar. 7	2	1	86	1503
Boiler:							
See Agricultural boiler. Tubular boiler.							
Domestic boiler. Tubular marine boiler.							
Locomotive-boiler. Vertical boiler.							
Range-boiler. Washboiler.							
Sectional boiler. Water-boiler.							
Steam-boiler. Water-tube boiler.							
Steam and hot-water boiler.							
Boiler	W. R. Addicks and J. H. Williamson	634,127	Oct. 3	276	67	89	58
Boiler	G. Baumann	618,770	Jan. 31	3614	807, 808	86	766
Boiler	M. P. Boss	627,321	June 20	2046	450, 451	87	2052
Boiler	T. Chapman	636,633	Nov. 7	727	159	89	1068
Boiler	B. Holt	639,390	Dec. 19	2228	516	89	2338
Boiler	R. W. Jacobs	632,720	Sept. 12	984	228	88	1916
Boiler	E. N. Janson	627,754	June 27	2875	628, 629	87	2233
Boiler	V. Karavodine	628,984	July 18	1937	452	88	414
Boiler	P. J. Keene	619,184	Feb. 7	738	160	86	956
Boiler	D. B. Kennedy	618,357	Jan. 24	2850	633	86	604
Boiler	G. Kingsley	633,853	Sept. 26	3095	718	88	2356
Boiler	J. F. Klugh	621,350	Mar. 21	1518	337	86	1821
Boiler	P. Meehan	625,406	May 23	2643	600, 601	87	1275
Boiler	K. Park	620,872	Mar. 7	624	136, 137	86	1625
Boiler	B. W. Rice	636,923	Nov. 14	1342	287, 288	89	1218
Boiler	J. M. Sailer	627,763	June 27	2887	631	87	2235
Boiler	F. B. Scott	620,979	Mar. 14	837	183	86	1676
Boiler	G. S. Strong	631,830	Aug. 29	3898	871, 872	88	1551
Boiler-alarm. Automatic	D. H. Hynds	635,016	Oct. 17	1897	451	89	410
Boiler attachment	C. W. Sommer	629,216	July 18	2354	546	88	494
Boiler-brace	H. L. Wilson	619,109	Feb. 7	597	128	86	927
Boiler-bracket	H. L. Wilson	637,542	Nov. 21	2532	548	89	1465
Boiler burner-heater	T. Kruse	634,734	Oct. 10	1413	333	89	298
Boiler-cleaner	W. B. Booker and G. D. Warren	628,388	July 4	819	190	88	157
Boiler-cleaner	V. Clark	624,627	May 9	1248	279	87	965
Boiler-cleaner	M. M. Cram	634,521	Oct. 10	1029	246	89	223
Boiler-cleaner	J. C. Friderítzi	622,920	Apr. 11	1330	306	87	271
Boiler-cleaner	W. H. Holcomb	629,563	July 25	2998	700	88	639
Boiler-cleaner	W. J. Plecher	631,967	Aug. 29	4138	931	88	1598
Boiler-cleaner	G. F. Schmid	625,207	May 16	2273	517	87	1179
Boiler-cleaner. Automatic	C. F. Noftzger	618,517	Jan. 31	3175	701	86	680
Boiler-cleaner. Mechanical	F. W. Hornish	632,785	Sept. 12	1101	254, 255	88	1940
Boiler cleaner. Steam-	C. E. King	618,465	Jan. 31	3073	681	86	661
Boiler dry pipe	H. L. Wilson	618,311	Jan. 24	2773	615	86	590
Boiler-fires. Device for feeding fuel to	F. E. and F. H. Hofmann	621,339	Mar. 21	1495	331	86	1817
Boiler-flue check	E. Hanstein	617,570	Jan. 10	1355	306	86	283
Boiler-flue cleaner	J. C. Ogletree	620,608	Mar. 7	103	20	86	1522
Boiler-flue cleaner	D. Raso	620,670	Mar. 7	238	49	86	1548
Boiler-flue-cleaning device	G. C. Kitchen	630,545	Aug. 8	1578	352	88	1043
Boiler flue. Tubular-	A. Taggart, Jr	632,951	Sept. 12	1403	324	88	1998
Boiler-furnace	C. W. Baird	633,414	Sept. 19	2305	542	88	2186
Boiler-furnace	A. Beard	635,738	Oct. 31	3304	762	89	712
Boiler-furnace	S. W. Butterfield	634,391	Oct. 3	795	192	89	158
Boiler-furnace	C. M. Day	617,521	Jan. 10	1250	285	86	263
Boiler-furnace	E. G. Germer	624,786	May 9	1524	347	87	1020
Boiler-furnace	A. P. Ritzos	629,606	July 25	3084	718	88	656
Boiler furnace and connections. Steam-	H. Sieben	624,110	May 2	299	62, 63	87	758
Boiler-furnace. Downdraft	F. Girtanner	629,350	July 25	2604	603, 604, 605	88	560
Boiler furnace. Smoke-consuming steam-	A. Newton	630,091	Aug. 1	691	149	88	860

Alphabetical list of inventions—Continued.

Invention.	Name.	No.	Date.	Monthly volume. Spec.	Monthly volume. Dr'g.	Official Gazette. Vol.	Official Gazette. Page.
Boiler furnace. Steam-	E. E. Gordon	619,563	Feb. 14	1394	320	86	1101
Boiler furnace. Steam-	J. Milton	631,528	Aug. 22	3341	759, 760	88	1433
Boiler furnace. Steam-	J. O. Morris	634,829	Oct. 10	1565	368	89	328
Boiler furnace. Steam-	A. A. Richardson	630,268	Aug. 1	982	216, 217	88	916
Boiler hanger device. Steam-	W. Spiegel	621,167	Mar. 14	1181	256	86	1743
Boiler lubricator. Steam-	J. Desmond	619,677	Feb. 14	1600	366	86	1140
Boiler safety-plug. Steam-	C. E. Rhoades	636,845	Nov. 14	1167	353	89	1185
Boiler scale-remover. Steam-	E. R. Williams	631,100	Aug. 15	2569	581	88	1261
Boiler steam-jet	E. Fales	627,724	June 27	2821	618	87	2220
Boiler supporting-lug	G. H. Drake	617,524	Jan. 10	1258	287	86	265
Boiler-tube cleaner	W. D. Forsyth and E. T. Bell	617,327	Jan. 10	896	208	86	194
Boiler-tube cleaner	W. D. Forsyth and E. T. Bell	617,439	Jan. 10	1119	255	86	236
Boiler-tube cleaner	W. D. Forsyth and E. T. Bell	634,406	Oct. 3	824	199	89	165
Boiler-tube cleaner	W. D. Forsyth and E. T. Bell	636,129	Oct. 31	4088	936	89	866
Boiler-tube cleaner	W. Guethler	636,333	Nov. 7	175	39	89	956
Boiler-tube cleaner	J. Keenan	629,080	July 18	2119	493, 494	88	451
Boiler-tube cleaner	S. D. and N. C. Yeo	625,865	May 30	3491	790	87	1458
Boiler-tube cleaner and driver	A. A. Patton	634,270	Oct. 3	567	140	89	113
Boiler-tube cleaner. Steam-	F. Bommarius	625,241	May 16	2340	533, 534	87	1192
Boiler-tube cleaners. Machine for operating	W. D. Forsyth and E. T. Bell	637,774	Nov. 28	3326	696	89	1680
Boiler-tube cleaners. Mechanism for operating	W. D. Forsyth and E. T. Bell	638,630	Dec. 5	836	181	89	2026
Boiler-tube-cleaning apparatus	W. M. Faber, Jr	638,225	Dec. 5	30	8	89	1872
Boiler-tube cutter and expander	W. D. Hervey	622,681	Apr. 11	918	211	87	194
Boiler-tube fastening	E. McGovern	624,367	May 2	762	171	87	846
Boiler-tubes. Means for fastening	T. Huberdeau	629,690	July 25	3229	751	88	683
Boiler water-bottom. Steam-	O. T. Earle and C. W. Newton	621,558	Mar. 21	1895	423	86	1892
Boiler water-gage. Steam	W. P. Phillips	619,215	Feb. 7	789	172	86	967
Boilers. Automatic alarm for steam-	A. M. Prencel	629,206	July 18	2340	543	88	491
Boilers. Device for preventing incrustation of	W. J. Ferguson	635,468	Oct. 24	2810	642	89	604
Boilers. Fire-box for water-tube	A. F. Hack	617,959	Jan. 17	2096	470	86	449
Boilers. Gas-fuel burner for steam-	E. L. Bush	619,274	Feb. 14	909	205	86	1006
Boilers, pipes, &c., from corrosion. Means for protecting	H. S. Ross	629,092	July 18	2142	498	88	456
Boiling apparatus. Milk-	M. F. Krogh	635,692	Oct. 24	3198	737	89	678
Bolster	S. Otis	627,348	June 20	2094	462	87	2061
Bolster	J. C. Wands	624,276	May 2	606	131	87	813
Bolster. Metal	A. B. Bellows	631,246	Aug. 15	2824	637	88	1313
Bolt: *See* Building-bolt. Door-bolt. Expansion-bolt. King-bolt. Pedestal brace-bolt. Shutter-bolt. Stay-bolt.							
Bolt	J. G. Baker	635,031	Oct. 17	1926	458	89	416
Bolt	P. Peterson	624,969	May 16	1874	421	87	1105
Bolt	J. R. Wiont	625,230	May 16	2323	529	87	1189
Bolt and lock. Combined	J. M. Forney	622,676	Apr. 11	903	207	87	191
Bolt and nut lock	C. E. Crosby	639,715	Dec. 26	2826	652	89	2475
Bolt clipper. Pneumatic stay-	A. Helwig	633,588	Sept. 26	2635	615	88	2264
Bolt-extractor	W. D. Walsh and D. McArthur	627,028	June 13	1513	330	87	1926
Bolt-fastener	J. Marx	637,141	Nov. 14	1771	380	89	1301
Bolt-head	W. W. Corey, Jr	624,628	May 9	1250	280	87	965
Bolt-holder	E. T. Clowe	634,392	Oct. 3	797	192	89	158
Bolt-holder	D. L. Shumate	617,129	Jan. 3	522	125	86	102
Bolt lock. Sliding-	C. B. Conant	630,594	Aug. 8	1665	373	88	1061
Bolt-making machine	W. W. Hubbard, Jr	626,234	June 6	32	8, 9	87	1621
Bolt or pipe extractor	A. S. Utt	620,062	Feb. 21	2322	527	86	1303
Bolt socket. King-	H. C. Swan	622,904	Apr. 11	1302	300	87	265
Bolt. Spring-key threadless	T. C. Hackett	633,719	Sept. 26	2871	667	88	2311
Bolt-threading machine	H. P. Eilers	637,772	Nov. 28	3321	695	89	1679
Bolts or pipes. Opening die-head for cutting threads on	W. L. Tobey	638,299	Dec. 5	213	45	89	1907
Bolting-cloth-cleaning brush	H. H. Emminga	620,433	Feb. 28	2970	680	86	1441
Bone-black kiln	B. Eba	638,177	Nov. 28	4107	866, 867	89	1837
Bone-black kiln	E. Lister	624,510	May 9	1044	235	87	924
Bone-black. Revivifying	C. Catlett	617,080	Jan. 3	423	------	86	82
Bone-black substitute and method of manufacture	C. Catlett	617,079	Jan. 3	422	------	86	81
Book	I. W. Allen	633,109	Sept. 19	1715	403	88	2071
Book	E. L. Heydecker	634,265	Oct. 3	556	138	89	111
Book. Account-	J. Frudenfeld	628,788	July 11	1582	364, 365	88	329
Book. Account-	J. Frudenfeld	628,789	July 11	1584	365	88	330
Book. Account-	A. T. Selden and O. T. Smith	620,506	Feb. 28	3082	704	86	1463
Book. Account-	G. C. Shepherd	620,508	Feb. 28	3085	705	86	1464
Book. Account and sales	E. L. G. Toborg	621,387	Mar. 21	1574	349	86	1832
Book and temporary binder. Sales-	A. S. Abbott	637,493	Nov. 21	2442	530	89	1448
Book-back-lettering machine	A. Von Auw	620,622	Mar. 7	134	27	86	1528
Book. Bank account-	W. L. Wever and H. H. Parmerter	632,769	Sept. 12	1070	247	88	1934
Book balance-slip. Check-	E. Shaw	624,257	May 2	574	123	87	809
Book. Blank-	F. H. Hertle	632,941	Sept. 12	1389	321	88	1995
Bookcase	W. S. Grange	625,103	May 16	2115	480	87	1149
Bookcase base. Traveling-	D. E. Hunter	623,157	Apr. 18	1793	411	87	377
Bookcase. Collapsible	A. C. Steininger	631,341	Aug. 22	2998	680	88	1365
Bookcase. Detachable or knockdown	G. F. Flashman	624,637	May 9	1267	283	87	967
Bookcase. Sectional	E. E. Baker	640,078	Dec. 26	3487	799	89	2608
Bookcase. Sectional	J. L. Davidson	638,381	Dec. 5	375	78, 79	89	1938
Bookcase. Sectional	F. Macey	631,312	Aug. 22	2951	667, 668	88	1354
Book. Check-	H. H. Norrington	636,350	Nov. 7	205	45	89	962
Book. Collector's bill-	G. C. Ward	623,449	Apr. 18	2305	528	87	482
Book-cover	E. D. Douglas	624,195	May 2	457	96	87	787
Book-cover	E. M. Page	626,794	June 13	1057	238	87	1838

Alphabetical list of inventions—Continued.

Invention.	Name.	No.	Date.	Monthly volume.		Official Gazette.	
				Spec.	Dr'g.	Vol.	Page.
Book-cover-blank cutting-die	C. L'Enfant	619,967	Feb. 21	2155	489	86	1272
Book-cover protector	G. Cornwall	622,178	Mar. 28	3053	692	86	2135
Book-cover protector	E. T. Covell	633,375	Sept. 19	2233	526	88	2172
Book-cover-shaping machine	D. J. Munn	636,684	Nov. 7	819	182	89	1088
Book-covering	W. H. Smalley	639,451	Dec. 19	2344	541	89	2360
Book. Deposit and check	G. H. Rogers	632,752	Sept. 12	1033	239	88	1926
Book-holder	T. J. Gary	639,370	Dec. 19	2193	507	89	2331
Book-holder	A. J. Reid	631,512	Aug. 22	3321	754	88	1428
Book-holder. Adjustable	J. Bauer	632,037	Aug. 29	4269	960	88	1623
Book-holding clamp for indexing purposes	S. N. Webb	617,787	Jan. 17	1778	399	86	384
Book. Index	J. L. C. Montague	626,712	June 13	907	206	87	1808
Book. Indexed	A. L. Yates	639,487	Dec. 19	2405	553	89	2373
Book-leaf	H. G. Razall	631,127	Aug. 15	2614	591	88	1270
Book-leaf	W. A. Vawter	622,986	Apr. 11	1437	332	87	294
Book, leaf, or music holder	P. A. Veilex	634,781	Oct. 10	1481	349	89	311
Book. Manifold order	L. A. Keith	628,008	July 4	94	19	88	20
Book. Manifold sales	G. E. Doughty	637,094	Nov. 14	1660	360	89	1280
Book. Manifolding	F. Bentel	626,665	June 13	807	184	87	1790
Book. Manifolding	J. A. Brake	625,139	May 16	2169	492	87	1159
Book. Manifolding	P. W. Paulson	619,691	Feb. 14	1630	372	86	1146
Book. Manifolding	A. Quortrup	621,462	Mar. 21	1714	380, 381	86	1859
Book. Manifolding	E. B. Stretch	618,919	Feb. 7	190	41	86	842
Book. Manifolding account	J. B. Beavis	631,455	Aug. 22	3202	727	88	1405
Book. Manifolding check	I. Moore	617,469	Jan. 10	1163	265	86	245
Book. Manifolding sales	A. Abraham	634,438	Oct. 10	887	214	89	195
Book. Manifolding sales	E. J. Carter	627,481	June 27	2365	521	87	2130
Book. Manifolding sales	C. L. Denison	631,107	Aug. 15	2579	583	88	1263
Book. Manifolding sales	C. L. Denison	631,108	Aug. 15	2581	583	88	1263
Book. Manifolding sales	J. F. Laning	635,259	Oct. 17	2356	550	89	498
Book. Manifolding sales	I. Moore	635,796	Oct. 31	3411	786	89	734
Book-mark	G. N. Beels	628,913	July 18	1821	423	88	392
Book-mark or leaf-holder	J. E. Roantree	620,363	Feb. 28	2860	654	86	1421
Book. Mileage	H. E. Bateman	619,532	Feb. 14	1344	309	86	1092
Book of address-cards	J. B. Wiggins	624,280	May 2	622	136	87	817
Book page-indicator	J. P. McCluskey	623,415	Apr. 18	2253	516	87	470
Book, paper, and lamp rest	J. N. Söderström and O. B. Nelsson	620,246	Feb. 28	2649	604	86	1380
Book. Pass	T. P. Martin, Jr	635,170	Oct. 17	2208	515	89	470
Book-receptacle. Coin-actuated	C. W. Craven	633,308	Sept. 19	2085	489	88	2144
Book-rest. Adjustable	C. W. Davis and H. M. Hall	639,362	Dec. 19	2184	505	89	2329
Book. Reversible day	A. O. Hebert	633,514	Sept. 19	2463	580	88	2217
Book. Separate-leaf	L. M. Morden	625,050	May 16	2011	453	87	1131
Book-support	G. W. Ladd	639,063	Dec. 12	1601	367	89	2198
Book-support	M. E. Welch	632,384	Sept. 5	321	72	88	1770
Book-support. Adjustable	L. A. Mayo	621,357	Mar. 21	1527	339	86	1823
Book support and holder. Revolving	J. H. Purdue	633,965	Sept. 26	3285	765	88	2393
Book support. Open	A. M. Riddell	632,429	Sept. 5	390	89	88	1784
Book. Temporary account	R. W. Hamilton	636,662	Nov. 7	786	173	89	1081
Book. Writing	E. E. Roudebush	634,094	Oct. 3	194	48	89	42
Books. Machine for making center-stitched	A. Von Auw	626,115	May 30	4018	916, 917, 918	87	1554
Books. Reference or page marker for	S. J. Sawyer	634,768	Oct. 10	1466	345	89	308
Boom or gaff for vessels	H. B. Smith	624,988	May 16	1904	427	87	1110
Boot-cleaner	G. W. Smead and C. H. Mock	640,038	Dec. 26	3415	783	89	2594
Boot-cleaner	E. Shaw	622,024	Mar. 28	2773	626	86	2079
Boot-cleaner	E. Shaw	633,737	Sept. 26	2900	673	88	2316
Boot-drier	D. H. Witmer	629,944	Aug. 1	404	88	88	801
Boot or shoe	W. Burwell	638,043	Nov. 28	3838	807	89	1784
Boot or shoe	R. E. Kelsall	621,922	Mar. 28	2582	582	86	2041
Boot or shoe	M. McMahon	628,836	July 11	1669	389	88	346
Boot or shoe	J. F. Riemer	631,821	Aug. 29	3887	868	88	1549
Boot or shoe	E. Roche	634,588	Oct. 10	1153	274	89	247
Boot or shoe	J. F. Sharpe	630,570	Aug. 8	1622	362	88	1052
Boot or shoe	C. S. Smith	637,948	Nov. 28	3651	766	89	1748
Boot or shoe attachment	T. Smith	637,900	Nov. 28	3574	748, 749	89	1732
Boot or shoe clamping device	N. B. Denison	627,576	June 27	2547	561	87	2165
Boot or shoe cleaner	I. Kinney	625,932	May 30	3608	820	87	1480
Boot or shoe cleaner	C. F. Nelson	631,807	Aug. 29	3869	863	88	1545
Boot or shoe cleaning or polishing cabinet	J. T. Cheney	636,198	Oct. 31	4208	967	89	891
Boot or shoe counters. Machine for forming	C. Dancel and J. R. Scott	634,397	Oct. 3	807	195, 196	89	161
Boot or shoe flies. Holder for	I. F. Peck	627,441	June 20	2289	504	87	2099
Boot or shoe jack	C. Fredman and J. Hallas	624,473	May 9	972	216	87	911
Boot or shoe polishing machine	A. E. Watkins	636,419	Nov. 7	319	72, 73	89	985
Boot or shoe top supporter	G. C. Bemis	635,034	Oct. 17	1932	459	89	417
Boot or shoe tree	O. I. Howe	623,085	Apr. 11	1615	371	87	329
Boot or shoe tree	L. H. Leadam	621,423	Mar. 21	1630	362	86	1842
Boot, shoe, or slipper holder	W. S. Hallowell	632,409	Sept. 5	359	81	88	1777
Boot-strap	D. C. See	628,164	July 4	386	91	88	78
Boot-tree	L. H. Leadam	621,424	Mar. 21	1631	362	86	1843
Boot-tree	D. C. Luce	618,700	Jan. 31	3497	781	86	743
Boots, &c. Fastening or clasp for	V. Bergman	633,947	Sept. 26	3243	757	88	2385
Booth. Portable	J. W. Ernest	626,753	June 13	974	221	87	1821
Border-maker and ridger	F. W. Reimold	619,789	Feb. 21	1848	422	86	1214
Boring and disintegrating earthy matter. Apparatus for	G. Wetherby	639,836	Dec. 26	3051	702	89	2520
Boring and drilling machine	L. Person	624,858	May 9	1674	379	87	1048
Boring and excavating implement	J. Bertram	629,539	July 25	2962	691	88	633
Boring and mortising machine	G. T. Parsley and G. C. Cottrell	617,473	Jan. 10	1172	267	86	247
Boring and tapping machine	A. H. Fowler and E. G. Budd	621,335	Mar. 21	1489	330	86	1816
Boring and turning mill	G. W. Moreton	629,042	July 18	2040	475	88	435
Boring apparatus for deep borings	A. Raky	619,907	Feb. 21	2053	466	86	1254
Boring-bar	W. H. Turton	619,450	Feb. 14	1210	275	86	1064
Boring-machine	J. F. Lomprey	621,113	Mar. 14	1090	237	86	1724

Alphabetical list of inventions—Continued.

Invention.	Name.	No.	Date.	Monthly volume. Spec.	Monthly volume. Dr'g.	Official Gazette. Vol.	Official Gazette. Page.
Boring-machine	C. Nielson	639,604	Dec. 19	2604	598, 599	89	2414
Boring-machine	H. J. Roberts	628,992	July 18	1953	454, 455	88	417
Boring-machine	H. H. Rockwell and C. F. Gerlach	620,614	Mar. 7	118	24	86	1525
Boring-machine	H. B. Woodill and B. F. Hulse	639,203	Dec. 12	1863	429	89	2249
Boring machine. Cylinder-	G. W. Montgomery	619,830	Feb. 21	1906	435	86	1225
Boring machine. Dowel-door-	A. E. Woods	630,963	Aug. 15	2307	525, 526	88	1210
Boring machine. Floor-	F. B. Hooker	621,250	Mar. 14	1327	294	86	1771
Boring-machine. Multiple	J. C. Neville	619,333	Feb. 14	1002	227	86	1026
Boring-machine. Multiple	W. D. Neville	626,502	June 6	529	122	87	1716
Boring-tool	L. Mitchell	637,640	Nov. 21	3079	636	89	1613
Bosh-plate	C. J. Gustafson and A. P. Gaines	627,924	June 27	3178	696, 697	87	2294
Bottle	A. Andrew	626,127	May 30	4043	923	87	1559
Bottle	A. Cahen	621,444	Mar. 21	1670	370	86	1849
Bottle	A. A. French	626,418	June 6	375	88	87	1687
Bottle	P. J. Friedrich	617,733	Jan. 17	1657	372, 373	86	362
Bottle	P. J. Friedrich	636,427	Nov. 7	339	76	89	990
Bottle	W. H. Hutton	626,235	June 6	37	9	87	1622
Bottle	P. Lindemeyr	621,112	Mar. 14	1088	236	86	1723
Bottle	J. G. Mace	623,679	Apr. 25	2720	624	87	579
Bottle, &c	A. Paterson	639,861	Dec. 26	3094	711	89	2528
Bottle	E. B. Phillips	619,435	Feb. 14	1190	269	86	1060
Bottle	A. C. Richardson	638,811	Dec. 12	1175	263	89	2115
Bottle	A. M. Shaw	621,161	Mar. 14	1173	255	86	1741
Bottle	B. Ver Standig	622,737	Apr. 11	997	231	87	209
Bottle	S. E. Wharton	616,996	Jan. 3	247	57	86	49
Bottle	W. Wilson	623,644	Apr. 25	2660	609	87	566
Bottle	A. H. Wright	618,021	Jan. 17	2205	492	86	468
Bottle and its stoppering	M. M. J. O. O'Conor	626,557	June 6	612	141	87	1733
Bottle. Antirefilling	E. de Anguera	629,537	July 25	2960	690	88	632
Bottle. Antirefilling	F. S. Elwell	619,945	Feb. 21	2116	479	86	1265
Bottle cap and brush	C. M. Higgins	624,934	May 16	1819	408	87	1093
Bottle-case cushion	B. Kochs	634,355	Oct. 3	739	177	89	148
Bottle-cleaning apparatus	B. Fischer, R. H. Borowski, and T. P. Goebel.	627,612	June 27	2628	577, 578	87	2182
Bottle clip. Nursing-	C. Provis	624,974	May 16	1882	423	87	1106
Bottle-closing device	J. D. Roche	630,564	Aug. 8	1609	360	88	1050
Bottle-closure	W. D. Kilbourn	632,575	Sept. 5	673	156	88	1839
Bottle-cork fastener	E. C. Akers	632,981	Sept. 12	1451	336	88	2007
Bottle-fastening device	J. Cederstrom	630,286	Aug. 1	1019	225	88	924
Bottle filling and stoppering machines. Crown-placer for	F. O. Woodland	637,316	Nov. 21	2113	456	89	1383
Bottle-filling apparatus	W. Bachner	634,793	Oct. 10	1503	354	89	315
Bottle-filling apparatus	J. Jackson	622,483	Apr. 4	532	125	87	101
Bottle-filling machine	C. F. Bassett	620,877	Mar. 14	635	139	86	1639
Bottle-filling machine	W. M. Fowler	619,474	Feb. 14	1243	284	86	1071
Bottle-filling machine	E. R. Klemm	632,724	Sept. 12	991	229, 230	88	1917
Bottle-filling machine	W. Murchison	635,338	Oct. 24	2502	581	89	542
Bottle handle. Glass-	H. E. Wright	626,262	June 6	75	18, 19	87	1629
Bottle holder. Nursing-	A. J. Bradbury	622,414	Apr. 4	385	88	87	72
Bottle, jug, jar, or similar vessel with a neck	H. B. Handley	637,459	Nov. 21	2379	515	89	1436
Bottle. Medicine-	R. Frank	624,204	May 2	478	102	87	791
Bottle-molding device	C. B. Garwood	624,920	May 16	1784	402	87	1087
Bottle. Mucilage-	H. A. Crosby	618,845	Feb. 7	47	10	86	813
Bottle-neck-forming machine	A. J. Rudolph	631,329	Aug. 22	2980	674	88	1361
Bottle-neck-forming machine	A. J. Rudolph	631,582	Aug. 22	3459	781	88	1456
Bottle-neck-forming machine	A. J. Rudolph	631,583	Aug. 22	3461	781, 782	88	1456
Bottle-neck-forming machine	A. J. Rudolph	631,584	Aug. 22	3462	782	88	1457
Bottle-neck-forming machine	A. J. Rudolph	631,585	Aug. 22	3464	783	88	1457
Bottle-neck-forming machine	A. J. Rudolph	631,586	Aug. 22	3465	783	88	1458
Bottle-neck-forming machine	A. J. Rudolph	631,587	Aug. 22	3467	783	88	1458
Bottle-neck-forming machine	A. J. Rudolph	631,588	Aug. 22	3468	784	88	1459
Bottle-neck-forming machine	A. J. Rudolph	631,589	Aug. 22	3469	784	88	1459
Bottle-neck-forming machine	A. J. Rudolph	631,590	Aug. 22	3470	784	88	1459
Bottle nipple. Nursing-	J. Pfeiffer	624,859	May 9	1676	379	87	1049
Bottle. Non-refillable	G. W. Adams	637,743	Nov. 21	3265	681	89	1650
Bottle. Non-refillable	A. D. Avedisyan	626,516	June 6	547	126	87	1719
Bottle. Non-refillable	J. Biesel	632,956	Sept. 12	1412	326	88	2000
Bottle. Non-refillable	H. S. Blynt	624,161	May 2	413	85	87	779
Bottle. Non-refillable	L. T. M. Canada	639,662	Dec. 19	2719	625	89	2436
Bottle. Non-refillable	J. Colbassani	637,370	Nov. 21	2220	477	89	1404
Bottle. Non-refillable	F. L. Cook	626,144	May 30	4081	931	87	1567
Bottle. Non-refillable	J. Creasy	632,916	Sept. 12	1349	311	88	1987
Bottle. Non-refillable	J. W. Dixon	625,545	May 23	2888	657	87	1323
Bottle. Non-refillable	A. G. Ely	632,453	Sept. 5	447	100	88	1795
Bottle. Non-refillable	S. Erstad	618,405	Jan. 31	2978	660	86	644
Bottle. Non-refillable	J. Evinof	622,887	Apr. 11	1277	295	87	261
Bottle. Non-refillable	E. L. Ewbank	622,612	Apr. 4	764	177	87	145
Bottle. Non-refillable	E. A. Foster	624,780	May 9	1516	345	87	1018
Bottle. Non-refillable	E. Freese	626,417	June 6	375	88	87	1686
Bottle. Non-refillable	J. F. Gaylord	631,252	Aug. 15	2837	640	88	1315
Bottle. Non-refillable	L. Giacomini	619,741	Feb. 21	1744	398	86	1193
Bottle. Non-refillable	T. P. Greenhow	623,010	Apr. 11	1489	345	87	304
Bottle. Non-refillable	J. J. Hanlon and J. Reuber	617,395	Jan. 10	1038	236	86	221
Bottle. Non-refillable	W. I. F. Harden	639,562	Dec. 19	2543	583	89	2401
Bottle. Non-refillable	J. W. Hardin	618,872	Feb. 7	102	22	86	824
Bottle. Non-refillable	T. Hogan	638,636	Dec. 5	845	183	89	2028
Bottle. Non-refillable	J. L. Jackson	619,310	Feb. 14	972	220	86	1019
Bottle. Non-refillable	J. L. Jackson	619,311	Feb. 14	974	220	86	1020
Bottle. Non-refillable	J. L. Jackson	619,312	Feb. 14	977	220	86	1021

Alphabetical list of inventions—Continued.

Invention.	Name.	No.	Date.	Monthly volume. Spec.	Monthly volume. Drg.	Official Gazette. Vol.	Official Gazette. Page.
Bottle. Non-refillable	J. L. Kendrick	620,076	Feb. 21	2345	531	86	1308
Bottle. Non-refillable	F. W. King	628,716	July 11	1455	338	88	303
Bottle. Non-refillable	N. Lanser	619,966	Feb. 21	2153	483	86	1272
Bottle. Non-refillable	J. R. Lavender	616,944	Jan. 3	158	35	86	32
Bottle. Non-refillable	L. McCormick	639,086	Dec. 12	1641	380	89	2205
Bottle. Non-refillable	G. McEachron	631,258	Aug. 15	2846	642	88	1315
Bottle. Non-refillable	J. M. Mott	624,235	May 2	542	116	87	802
Bottle. Non-refillable	C. J. Nesbitt	639,271	Dec. 19	1985	457	89	2288
Bottle. Non-refillable	S. Penny	630,737	Aug. 8	1898	428	88	1107
Bottle. Non-refillable	W. R. Phillips	634,184	Oct. 3	370	95	89	76
Bottle. Non-refillable	F. D. Ray, B. P. Walters, and E. S. Perkins.	630,929	Aug. 15	2241	511	88	1198
Bottle. Non-refillable	R. R. Reynolds	624,092	May 2	275	56	87	753
Bottle. Non-refillable	S. P. B. Robins	632,751	Sept. 12	1032	239	88	1925
Bottle. Non-refillable	H. Seelinger	631,183	Aug. 15	2703	611	88	1288
Bottle. Non-refillable	G. W. Skanks	629,307	July 18	2505	584	88	522
Bottle. Non-refillable	R. H. Smith	624,393	May 2	818	184	87	857
Bottle. Non-refillable	A. G. Snowdon	623,047	Apr. 11	1546	357	87	316
Bottle. Non-refillable	J. G. Surman	636,585	Nov. 7	627	138	89	1049
Bottle. Non-refillable	A. Taylor	627,362	June 20	2141	471	87	2071
Bottle. Non-refillable	H. Weil	626,741	June 13	953	216	87	1817
Bottle. Non-refillable	E. West	624,416	May 2	858	193	87	866
Bottle. Non-refillable	A. Wilcke	618,757	Jan. 31	3597	803	86	763
Bottle or jar stopper	C. R. G. Hövermann	636,801	Nov. 14	1097	235	89	1170
Bottle or jar stopper	F. McCarty	620,663	Mar. 7	227	47	86	1546
Bottle or jar stopper	F. McCarty	633,468	Sept. 19	2389	562	88	2203
Bottle or other vessel	G. Ragot and T. Berlize	637,415	Nov. 21	2305	497	89	1422
Bottle-package	H. H. Higham	623,472	Apr. 18	2344	538	87	489
Bottle. Paste-	G. P. Cragin	632,806	Sept. 12	1141	263	88	1948
Bottle shield or protector	H. Seelinger	631,182	Aug. 15	2702	611	88	1287
Bottle steaming-cap	P. D. Laible	626,027	May 30	3838	870	87	1523
Bottle-stopper	W. P. Bonwick	623,070	Apr. 11	1583	365	87	323
Bottle-stopper	H. Y. Bready	639,693	Dec. 19	2786	642	89	2449
Bottle-stopper	H. S. Brewington	639,347	Dec. 19	2134	491	89	2318
Bottle-stopper	C. N. Brisco	623,304	Apr. 18	2051	471	87	430
Bottle-stopper	L. H. Broome	626,885	June 13	1275	279	87	1879
Bottle-stopper	L. H. Broome	626,886	June 13	1276	279	87	1879
Bottle-stopper	L. H. Broome	632,006	Aug. 29	4215	948	88	1613
Bottle-stopper	J. W. Dawson	633,094	Sept. 12	1675	394	88	2053
Bottle-stopper	J. P. Erie	631,068	Aug. 15	2508	567, 568	88	1250
Bottle-stopper	H. A. Knight	639,856	Dec. 26	3086	709	89	2526
Bottle-stopper	A. Lieber	622,376	Apr. 4	305	71	87	58
Bottle-stopper	W. A. Lorenz	639,068	Dec. 12	1606	369	89	2199
Bottle-stopper	G. R. Moore, Jr.	624,363	May 2	758	170	87	845
Bottle-stopper	C. de Quillfeldt	624,681	May 9	1338	299	87	982
Bottle-stopper	J. J. Rhinclander and C. Moyer	627,829	June 27	3004	656, 657	87	2257
Bottle-stopper	C. O. Roskoten	617,125	Jan. 3	510	122	86	100
Bottle-stopper	F. W. Schroeder	624,384	May 2	802	180	87	854
Bottle-stopper	F. W. Schroeder	635,398	Oct. 24	2644	610	89	571
Bottle-stopper	J. W. Smith	629,619	July 25	3110	724	88	661
Bottle-stopper	F. G. Stuart	633,169	Sept. 19	1828	430	88	2093
Bottle-stopper	S. Twitchell	637,977	Nov. 28	3706	780	89	1758
Bottle-stopper	F. W. Waterman	617,975	Jan. 17	2121	475	86	453
Bottle-stopper and sprinkler. Combined	W. W. Lowrey	636,821	Nov. 14	1125	241	89	1176
Bottle-stopper attachment	F. Morrison	634,697	Oct. 10	1337	316	89	284
Bottle-stopper lock	J. R. Thompson	621,385	Mar. 21	1570	348	86	1831
Bottle-stopper-locking device	A. Dämitz	636,425	Nov. 7	336	75	89	989
Bottle-stopper-locking device	P. Filteau	624,004	May 2	96	20	87	721
Bottle stopper. Milk-	E. M. Phillips	625,197	May 16	2259	514	87	1177
Bottle stopper. Poison-	J. H. Mahan	625,272	May 16	2405	545	87	1203
Bottle-stopper retainer and extractor	C. V. B. Reeder	622,074	Mar. 28	2850	642	86	2094
Bottle-stoppering apparatus	R. P. de Sennevoy	627,657	June 27	2704	593	87	2198
Bottle-stoppering device. Removable	A. Thiems	623,746	Apr. 25	2820	646	87	597
Bottle-stoppering machine	A. A. Pindstofte	637,408	Nov. 21	2294	494	89	1420
Bottle. Telltale-	G. E. Smith	617,782	Jan. 17	1770	396	86	382
Bottle-unstopping implement	S. Johnston	631,872	Aug. 29	3977	889	88	1567
Bottle-washer	A. E. Cobb and C. J. Dyer	622,888	Apr. 11	1269	293	87	259
Bottle-washer	H. E. Decker	640,111	Dec. 26	3548	815	89	2621
Bottle-washing apparatus	C. Groterjan	639,378	Dec. 19	2211	511	89	2335
Bottle-washing apparatus	C. Kirschner	617,341	Jan. 10	929	214	86	200
Bottle-washing machine	W. T. Hawkins	636,985	Nov. 14	1456	314, 315	89	1241
Bottle-washing machine	J. R. Robb	624,097	May 2	283	58	87	755
Bottle-wiring machine	R. M. and C. E. Chambers	632,174	Aug. 29	4530	1020, 1021, 1022, 1023, 1024	88	1675
Bottle-wrapper	J. C. Scheufler	622,715	Apr. 11	964	224	87	203
Bottle-wrapper	F. M. Wade	621,983	Mar. 28	2708	611	86	2065
Bottle-wrappers. Machine for making	C. G. Biedinger	639,395	Dec. 19	2239	518	89	2340
Bottles, &c. Closure for preventing refilling of	A. A. Bhise	617,629	Jan. 10	1455	332	86	303
Bottles. Device for preventing fraudulent refilling of	E. R. Meyer	635,385	Oct. 24	2498	580	89	542
Bottles. Device for preventing refilling of	E. W. Phinney	620,173	Feb. 28	2513	572	86	1355
Bottles. Device for pulling stoppers or seals from	E. A. Lufkin	635,330	Oct. 24	2493	579	89	541
Bottles, &c. Holder for nursing-	G. Regan	638,939	Dec. 12	1392	318	89	2158
Bottles, jars, casks, &c. Stopper and fastening for	J. J. Shuttleworth	636,073	Oct. 31	3990	912	89	846
Bottles, jars, &c. Elastic cap or cover for	H. C. Shearman	639,832	Dec. 26	3043	700	89	2518
Bottles. Machine for filling screw-stoppered	H. C. Adcock and S. F. Lyle	630,790	Aug. 8	1988	450	88	1124
Bottles. Machine for rebending crown caps or seals for	W. Gebhardt	631,785	Aug. 29	3836	854	88	1538
Bottles. Machine for securing neck-wires to	J. W. Sinnickson and B. F. Meyer	622,550	Apr. 4	663	155	87	127
Bottles, &c. Means for closing	P. Kirschen	634,622	Oct. 10	1209	287	89	257
Bottles. Protecting-cover for	W. A. Mauran	620,850	Mar. 7	585	127	86	1617

Alphabetical list of inventions—Continued.

Invention.	Name.	No.	Date.	Monthly volume. Spec.	Monthly volume. Dr'g.	Official Gazette. Vol.	Official Gazette. Page.
Bottles, &c. Stopper for	J. E. Farrell	623,359	Apr. 18	2153	495	87	444
Bottles with liquids. Apparatus for filling	E. K. Moore	638,467	Dec. 5	544	112	89	1971
Bottling and corking apparatus	E. Franc	625,665	May 23	3091	703	87	1363
Bottling-rack	J. Turnbull	627,158	June 20	1745	383	87	1990
Boulder-depressor	J. L. Towner	634,921	Oct. 17	1731	411	89	376
Bouquet-holder	R. J. Bratton	617,951	Jan. 17	2087	468	86	448
Bouquet-holder	J. R. Grigor	627,923	June 27	3178	696	87	2294
Bouquet-holder	N. M. Worley	634,517	Oct. 10	1024	245	89	222
Bowl-holding device	H. L. Oothout	630,734	Aug. 8	1893	427	88	1104
Bowl. Syrup-	A. and P. B. Warner	621,188	Mar. 14	1218	266	86	1750
Bowling-alley	P. C. Biersach	622,660	Apr. 11	875	201	87	186
Bowling-alley	J. Buck	635,913	Oct. 31	3646	841	89	779
Bowling-alley	J. N. McIntire	622,653	Apr. 4	855	196	87	162
Bowling-alley	J. N. McIntire and S. L. Holden	630,728	Aug. 8	1883	426	88	1102
Bowling-alley	W. P. Mussey	631,090	Aug. 15	2553	577	88	1258
Bowling-alley	G. W. Wemple	627,712	June 27	2799	613	87	2216
Bowling-alley	W. H. Wiggins	623,933	Apr. 25	3209	739	87	672
Bowling-alley and table. Combined	R. Tschenda	638,486	Dec. 5	576	119	89	1976
Bowling-alley ball	W. H. Howard	624,808	May 9	1578	359	87	1031
Bowling-alley light and pin-indicator	G. Burkhardt	626,590	June 6	666	154	87	1743
Bowling-alley pin	W. H. Howard	624,807	May 9	1577	359	87	1030
Box:							
See Annealing-box.	Mail-box.						
Axle-box.	Match-box.						
Bait-box.	Medicine-box.						
Burial-box.	Meter-box.						
Butter-box.	Mill-box.						
Car-journal box.	Miter-box.						
Cardboard box.	Music-box.						
Card-receiving box.	Nest-box.						
Cartridge-box.	Nesting-box.						
Cigar-box.	Notion-box.						
Cigarette-box.	Oil-box.						
Cigarette, cigar, or tobacco box.	Oilstone-box.						
	Paper box.						
Clothes-pin box.	Paper and envelop box.						
Coin-box.	Pasteboard box.						
Coin and check collecting box.	Pattern-box.						
	Powder-box.						
Collapsible box.	Provision-box.						
Die-box.	Puzzle-box.						
Display-box.	Razor-box.						
Domino-box.	Shipping-box.						
Fare-box.	Shoe-box.						
Feed-box.	Spool-box.						
File-box.	Spoon and leader box.						
Folding box.	Stamp-box.						
Folding or collapsible box.	Strip holding and exhibiting box.						
Game-box.	Stuffing-box.						
Garbage-box.	Telescopic box.						
Hat-box.	Thread-box.						
Hat-packing box.	Tilting box.						
Journal-box.	Tooth-powder box.						
Jug-packing box.	Tote-box.						
Junction-box.	Toy money-box.						
Knockdown box.	Two-piece box.						
Letter-box.	Wooden box.						
Lunch-box.	Workbox.						
Lunch or other box.	Yeast-powder box.						
Box	A. H. Alger	628,379	July 4	805	187	88	154
Box	M. S. Cadwell	620,538	Feb. 28	3159	723	86	1478
Box	J. H. Greenstreet	628,531	July 11	1100	256	88	231
Box	A. M. Jenkinson	639,054	Dec. 12	1587	364	89	2195
Box	F. Knobeloch	634,645	Oct. 10	1241	295	89	264
Box	F. Knobeloch	634,646	Oct. 10	1242	295	89	264
Box	F. Knobeloch	634,647	Oct. 10	1243	295, 296	89	264
Box	M. T. Vogle	636,302	Nov. 7	131	28	89	948
Box	F. A. Wilson	625,822	May 30	3405	773	87	1442
Box and fastening therefor	C. M. Carnahan	633,356	Sept. 19	2198	516	88	2166
Box-blank material. Feed device for	F. P. Rosback	625,958	May 30	3660	830	87	1490
Box-blank material. Preliminary feed mechanism for	F. P. Rosback	636,068	Oct. 31	3974	908, 909	89	843
Box-blanks. Machine for step-mitering	F. P. Rosback	623,258	Apr. 18	1966	449, 450, 451, 452	87	412
Box-corner-locking device	F. L. Chase	622,118	Mar. 28	2933	665, 666	86	2110
Box-covering-machine paper-cutting attachment	I. Dreyfuss	622,131	Mar. 28	2962	670	86	2117
Box-covering machines. Paper cut-off for	I. Dreyfuss	619,150	Feb. 7	676	145, 146	86	943
Box. Electrically-controlled lock collecting or other	F. Williams	638,408	Dec. 5	423	88	89	1946
Box-fastener	J. M. Fultz	618,201	Jan. 24	2581	571	86	553
Box-fastener	R. C. Kuhn	617,582	Jan. 10	1376	312	86	287
Box-fastener	A. J. Lauer	626,329	June 6	210	51	87	1653
Box-fastener	I. H. Moore	633,269	Sept. 19	2022	475	88	2132
Box-fastener	E. A. Page	633,896	Sept. 26	3165	735	88	2370
Box-fastener	E. T. Pugh	633,327	Sept. 19	2148	503	88	2156
Box-fastener	F. J. Robinson and J. H. Downard	620,055	Feb. 21	2313	525	86	1302
Box-fastener	H. M. Sheer	638,648	Dec. 5	865	188	89	2033
Box-fastener	J. Unser	619,809	Feb. 21	1879	428	86	1220
Box fastener and seal	W. C. Rarig	629,523	July 25	2945	685	88	629
Box filling and covering machine	W. H. Butler	639,354	Dec. 19	2146	493, 494, 495	89	2322

Alphabetical list of inventions—Continued.

Invention.	Name.	No.	Date.	Monthly volume. Spec.	Monthly volume. Dr'g.	Official Gazette. Vol.	Official Gazette. Page.
Box-filling machine	V. Carassale	625,288	May 16	2430	550, 551, 552, 553, 554	87	1208
Box-filling machine	J. P. Wright	620,526	Feb. 28	3115	712, 713	86	1470
Box-folding machine	J. Webb	623,586	Apr. 25	2561	587, 588	87	549
Box for cereals and means for handling same	J. Westover	635,626	Oct. 24	3088	708, 709	89	658
Box for cigarettes or other articles	E. G. Stinton	621,173	Mar. 14	1193	259	86	1746
Box-handle	A. S. Held	624,025	May 2	137	31	87	729
Box-handle	A. S. Held	630,886	Aug. 15	2161	491	88	1182
Box-hinging machine	D. H. Saunders	623,834	Apr. 25	3025	695, 696, 697	87	637
Box-lid holder	J. R. Johnson	633,200	Sept. 19	1879	442	88	2104
Box-lid support	W. S. Hawes	619,826	Feb. 21	1901	433	86	1224
Box-machine	C. H. Bump	630,528	Aug. 8	1547	345	88	1037
Box-machine	E. Fanning	629,783	Aug. 1	41	11	88	729
Box-machine	G. Patureau	630,403	Aug. 8	1291	282, 283, 284, 285, 286, 287, 288, 289, 290, 291	88	990
Box machine. Honey-	C. Mondeng	629,167	July 18	2273	527, 528	88	479
Box-making machine	C. Crawford and H. W. Bullard	629,775	Aug. 1	26	7, 8	88	726
Box-making machine	C. Crawford and H. W. Bullard. (Reissue.)	11,776	Oct. 3	881	213	89	177
Box-making machine	L. R. Perry	635,804	Oct. 31	3425	789, 790	89	736
Box-making machine. Berry-	C. W. Thomas	628,371	July 4	790	183, 184	88	152
Box or can	W. H. Butler	635,953	Oct. 31	3712	857	89	791
Box or can	A. Cameron, Jr	618,782	Jan. 31	3632	811	86	770
Box or can	A. Cameron, Jr	618,783	Jan. 31	3633	812	86	770
Box or can	L. C. Witkowski	625,625	May 23	2026	689	87	1351
Box or can	L. C. Witkowski	625,626	May 23	3029	690	87	1351
Box or can provided with means for opening same	A. Cameron, Jr	633,986	Oct. 3	9	3	89	5
Box or case	W. B. Chalmers	621,032	Mar. 14	953	207	86	1698
Box or case	J. A. Fuller	621,059	Mar. 14	990	215, 216	86	1705
Box or case	F. McIntyre	629,586	July 25	3050	711	88	649
Box or crate	P. C. Leidich	630,903	Aug. 15	2195	499, 500	88	1189
Box or package	D. F. Sherman	627,276	June 20	1952	430	87	2032
Box, package, or carton	V. M. Malatesta	632,222	Aug. 29	4621	1041	88	1692
Box-slide-forming tool	J. Hartness	638,578	Dec. 5	729	156	89	2006
Boxes. Adjustable lid-holder for	W. T. Parker	628,031	July 4	127	26	88	27
Boxes. Apparatus for shaping lids of sheet-metal	T. L. Carbone	629,546	July 25	2971	693, 694	88	635
Boxes, cans, &c. Means for extracting articles from their	F. King	631,078	Aug. 15	2533	574	88	1255
Boxes, &c. Fastener for	H. B. J. Andrus	624,286	May 2	630	138	87	819
Boxes. Machine for applying metal strips to	M. R. Partzsch	623,332	Apr. 18	2105	483	87	440
Boxes. Machine for attaching strings to	J. Reigart	631,819	Aug. 29	3885	867	88	1548
Boxes. Machine for gluing on bottoms of wooden	C. H. Bump	618,375	Jan. 24	2884	640	86	610
Boxes, tubes, &c. Fastening device for	G. H. Bliss	625,963	May 30	3667	832	87	1492
Brace: *See* Bit-brace. Body-brace. Corner-brace. Furniture-brace. Leg and ankle brace. Mining-brace. Rail-brace. Shoulder-brace. Window-brace.							
Brace and drill	A. Kerry	618,512	Jan. 31	3168	699	86	679
Brace-bit grip	J. R. Gordon	638,805	Dec. 12	1164	260	89	2113
Brace or bit-stock attachment	W. L. Baumgardner	631,922	Aug. 29	4059	911	88	1582
Brace-wrench	E. E. Stear	625,209	May 16	2278	518	87	1180
Braces	W. Halstenbach	622,349	Apr. 4	260	60	87	49
Bracelet	W. H. Saart	625,959	May 30	3662	831	87	1491
Bracket: *See* Adjustable bracket. Bed-bracket. Bicycle-lamp bracket. Car-door bracket. Clothes-line window-bracket. Curtain-bracket. Curtain and curtain-rod bracket. Curtain-pole bracket. Curtain-rod bracket. Curtain-roller-supporting bracket. Easel-bracket. Extension-bracket. Fence-post bracket. Foot-rail bracket. Gas-bracket. Lamp-bracket. Lamp-shelf bracket. Lantern-bracket. Lumber-bracket. Sash-holding bracket. Seat-post bracket. Shade-bracket. Shade and curtain bracket. Shade-roller bracket. Shelf-bracket. Sign-bracket. Swinging bracket. Tool-bracket. Type-bar bracket.							
Bracket	T. V. Allis	624,723	May 9	1414	317	87	997
Bracket	C. P. Geudtner	636,034	Oct. 31	3872	890	89	823

Alphabetical list of inventions—Continued.

Invention.	Name.	No.	Date.	Monthly volume.		Official Gazette.	
				Spec.	Dr'g.	Vol.	Page.
Bracket	W. C. Homan	622,226	Apr. 4	50	12	87	13
Bracket	W. C. Homan	625,032	May 16	1975	441	87	1124
Bracket	F. S. Jewett	617,164	Jan. 3	588	138	86	115
Bracket	G. W. Kirchhoffer	622,370	Apr. 4	298	69	87	57
Bracket-arm	Z. R. Pinault	620,175	Feb. 28	2516	572	86	1356
Braid of variable widths. Machine for making	J. E. Kirberg	621,099	Mar. 14	1061	231	86	1719
Braid. Skirt-	F. Thun and H. Janssen	626,397	June 6	346	80	87	1681
Braiding and winding machine spool-carrier	J. McCahey	632,318	Sept. 5	201	46	88	1747
Braiding-machine spool-holder	E. Mundt	632,534	Sept. 5	599	137	88	1826
Braiding-machine spool-holder	E. Mundt	638,059	Nov. 28	3860	811 812	89	1789
Braiding-machine thread-carrier	E. F. Cabezola	623,514	Apr. 25	2425	557	87	524
Braiding-machine thread-carrier	E. F. Cabezola	623,515	Apr. 25	2427	557	87	524
Brake: *See* Air-brake. Automatic brake. Back-pedaling brake. Band-brake. Bicycle-brake. Car-brake. Carriage-brake. Cycle-brake. Electric brake. Electromagnetic brake. Elevator-brake. Fluid-pressure brake. Grip-brake. Pulley-brake. Railway-brake. Rudder-brake. Sled-brake. Track and wheel brake. Vehicle-brake. Vehicle pneumatic brake. Vehicle-wheel brake. Wagon-brake. Wagon hand-brake. Windmill-brake.							
Brake	H. W. Alden	630,281	Aug. 1	1013	223	88	922
Brake	L. Kintz	637,003	Nov. 14	1498	322	89	1250
Brake	W. D. Ross	630,742	Aug. 8	1909	430	88	1107
Brake	H. J. Warmington	629,483	July 25	2859	664	88	612
Brake	W. Wirtz	630,434	Aug. 8	1368	306	88	1003
Brake-actuating device	A. Cholodkowsky	633,228	Sept. 19	1952	458 459	88	2118
Brake-adjusting mechanism	G. H. Gilman, W. B. Norton, and J. H. Brown.	621,653	Mar. 21	2051	458	86	1924
Brake apparatus	J. J. Kennelly	616,933	Jan. 3	132	30	86	27
Brake apparatus. Pneumatic	H. P. Merriam and E. J. Wessels	618,576	Jan. 31	3276	727	86	699
Brake appliance	W. T. Shryock	634,704	Oct. 10	1350	319	89	286
Brake-beam	F. B. Aglar	619,245	Feb. 7	843	185	86	978
Brake-beam	T. E. Carliss	636,755	Nov. 14	1009	215	89	1152
Brake-beam	L. C. Burgess	618,778	Jan. 31	3626	810	86	769
Brake-beam	P. B. Harrison	621,079	Mar. 14	1023	224	86	1711
Brake-beam	P. B. Harrison	621,606	Mar. 21	1967	439	86	1907
Brake-beam	J. G. Lawler	638,638	Dec. 5	850	184	89	2029
Brake-beam	J. Mackenzie	631,428	Aug. 22	3162	718	88	1396
Brake-beam	W. A. Pungs	622,781	Apr. 11	1072	249	87	223
Brake-beam	F. G. Susemihl	627,020	June 13	1504	329	87	1924
Brake-beam holder	E. E. Crowell	640,105	Dec. 26	3539	813	89	2619
Brake-block. Automatic	H. N. Wood	627,947	June 27	3221	706	87	2303
Brake-block. Automatic	H. N. Wood	627,948	June 27	3222	706	87	2303
Brake connecting-rod	C. F. Huntoon	638,869	Dec. 12	1271	289	89	2133
Brake-handle cover	J. Ramey and C. Mitschow	619,223	Feb. 7	803	175	86	969
Brake head, shoe, and hanger	L. B. Ferguson	638,229	Dec. 5	39	11	89	1875
Brake-lever	S. A. Roseman	617,995	Jan. 17	2157	481	86	459
Brake-lever	S. A. Roseman	639,095	Dec. 12	1668	385	89	2211
Brake-lever	R. C. Schenck	636,070	Oct. 31	3977	909	89	844
Brake magnet-clutch	J. B. Stewart	626,942	June 13	1362	299	87	1896
Brake mechanism	H. Tesseyman	620,724	Mar. 7	340	70	86	1567
Brake mechanism. Safety-	C. S. Miller	634,305	Oct. 3	629	153	89	126
Brake-operating apparatus. Electric	H. S. Graber	618,864	Feb. 7	89	18	86	822
Brake-pipe coupling	F. E. Tanney	626,778	June 13	1038	233	87	1834
Brake releasing device. Drive-wheel-	W. O. Pelham	618,478	Jan. 31	3091	685	86	664
Brake-rigging. Extension push-bar and slack-adjuster for	J. C. Wands	639,798	Dec. 26	2987	687 688	89	2508
Brake-shoe	P. B. and J. MacGregor	623,922	Apr. 25	3189	734	87	668
Brake-shoe	W. D. Sargent	622,397	Apr. 4	334	77	87	63
Brake-shoe	A. L. Streeter	624,262	May 2	582	125	87	810
Brake-shoe	A. L. Streeter	624,263	May 2	584	125	87	810
Brake-shoe	R. Walsh	623,584	Apr. 25	2558	587	87	548
Brake-shoe	R. Walsh. (Reissue)	11,746	June 6	798	182	87	1769
Brake-shoe bracket	W. H. Ryer	636,853	Nov. 14	1177	255	89	1187
Brake-shoe key	C. G. Eustis	639,676	Dec. 19	2748	630	89	2441
Brake-shoe. Spring	A. H. Peterson	634,182	Oct. 3	364	93	89	75
Brake-shoe. Vehicle	H. C. Swan	627,605	June 27	2614	575	87	2180
Brake-slack take-up	J. C. Wands	635,988	Oct. 31	3794	873 874	89	808
Brake-slack take-up	J. C. Wands	636,305	Nov. 7	134	29	89	948
Brake-slack take-up	J. C. Wands	636,874	Nov. 14	1228	265	89	1196
Brakes. Device for actuating fluid-pressure	M. W. Hibbard	619,480	Feb. 14	1254	288	86	1074
Brakes. Operating fluid-pressure	M. W. Hibbard	619,570	Feb. 14	1403	322	86	1102
Braking apparatus	G. F. Labram	640,138	Dec. 26	3591	826	89	2630
Bran-duster	J. Warrington	620,860	Mar. 7	602	130 131	86	1621
Branding cattle. Liquid for	H. W. Scott	629,526	July 25	2948	------	88	630
Branding device	W. A. Cameron	636,115	Oct. 31	4058	928	89	860
Branding device. Electric	B. Fellowes and H. Van Hoevenbergh.	619,471	Feb. 14	1238	282 283	86	1070
Branding device. Electric	H. Van Hoevenbergh	619,519	Feb. 14	1325	303	86	1089
Branding-iron	W. F. Hutchinson	623,670	Apr. 25	2704	619 620	87	575
Brazing-machine	B. A. Blenner	632,169	Aug. 29	4520	1017 1018	88	1673
Brazing-machine	A. A. Steward	625,990	May 30	3719	843 844	87	1502
Bread board and holder	H. J. Abernathy	629,416	July 25	2721	632	88	586

Alphabetical list of inventions—Continued.

Invention.	Name.	No.	Date.	Monthly volume. Spec.	Monthly volume. Drg.	Official Gazette. Vol.	Official Gazette. Page.
Bread-cutter	C. S. Osborn	638,135	Nov. 28	4028	849	89	1821
Bread-making machine	P. F. and A. F. Bryce	638,090	Nov. 28	3911	823	89	1799
Bread-making machine	W. Watson	628,568	July 11	1169	273, 274	88	245
Bread or pastry board	W. Harris	624,797	May 9	1549	353	87	1025
Bread. Preserving	H. A. Sévigné	628,859	July 11	1708	399	88	353
Bread-raiser and flour-warmer	L. Ries	635,980	Oct. 31	3772	870	89	803
Breaking and feeding apparatus	C. M. Day	617,523	Jan. 10	1256	286	86	265
Breast-shield	E. Murray	623,413	Apr. 18	2251	516	87	470
Breathing-tube	C. Carroll	635,232	Oct. 17	2316	541	89	491
Brick	A. Grayson and W. J. Spratley	637,332	Nov. 21	2150	464	89	1390
Brick	W. M. Hazel	628,799	July 11	1614	372	88	336
Brick	F. Pagnon	634,562	Oct. 10	1113	264	89	240
Brick and making same. Fire-	A. C. Ponton	627,443	June 20	2296	------	87	2100
Brick, block, or slab for buildings, mantels, vaults, &c.	C. Myers	624,523	May 9	1064	240	87	928
Brick-drier	O. Howl	622,626	Apr. 4	788	183	87	150
Brick for level floors and ceilings, &c. Hollow	P. Rowald	633,044	Sept. 12	1562	363	88	2029
Brick in burning. Device for recording shrinkage in	A. J. Pohl	635,023	Oct. 17	1907	454	89	412
Brick-kiln	F. Koch	635,935	Oct. 31	3682	849, 850	89	785
Brick-kiln	A. Yates	636,310	Nov. 7	143	31,32	89	950
Brick-machine	T. E. Ayotte and A. A. Charbonneau.	625,866	May 30	3492	790, 791	87	1458
Brick-machine	J. Garrett and J. H. Welch	631,630	Aug. 22	3534	796	88	1471
Brick-machine	F. Macarthy	625,781	May 30	3312	752, 753	87	1424
Brick-machine	W. F. Stimpson	624,399	May 2	828	186, 187	87	859
Brick-machine	R. A. Willett	621,728	Mar. 21	2196	495, 496	86	1953
Brick-machine. Dry-press	S. B. Frank	636,252	Nov. 7	43	10	89	933
Brick-making	A. Niedringhaus	630,397	Aug. 8	1280	280	88	988
Brick-making machine	S. Obermeyer	633,891	Sept. 26	3153	732	88	2368
Brick-making machine	G. L. Rolfe	636,560	Nov. 7	591	120	89	1041
Brick making machine. Semidry or semiplastic	A. Adams	636,095	Oct. 31	4024	919, 920, 921	89	853
Brick-mold	O. H. Root and G. E. Luce	630,114	Aug. 1	727	157	88	867
Brick-mold sander	E. T. Bennett	636,620	Nov. 7	699	152, 153	89	1063
Brick or tile cutting plant	J. Bensing	621,315	Mar. 21	1459	323	86	1810
Brick or tile machine die	F. D. T. Lehmann	623,920	Apr. 25	3186	733	87	668
Brick-press	S. Taylor	620,809	Mar. 7	509	108	86	1601
Brick-press-operating means	J. M. Ervin	631,422	Aug. 22	3150	714	88	1394
Brick sanding and forming machine	A. L. Converse and J. T. Underwood	628,903	July 11	1794	418	88	369
Brick, tile, &c., and construction of walls, &c	J. Sheppard and F. Dashwood	626,307	June 6	162	39	87	1644
Brick, tile, or pipe die	E. S. Clark	625,381	May 23	2604	592	87	1268
Brick-truck	M. Villaret	634,044	Oct. 3	105	27	89	25
Brickwork-tie	J. G. McDowell	620,349	Feb. 28	2833	646	86	1416
Bricks, &c. Apparatus for drying	O. Howl	631,214	Aug. 15	2758	623, 624	88	1299
Bricks in manufacturing same. Apparatus for handling	J. P. B. Fiske	633,955	Sept. 26	3265	762, 763	88	2390
Bricks, &c. Manufacture of	E. Willems	638,370	Dec. 5	357	------	89	1934
Bridge	W. L. Brayton	632,985	Sept. 12	1457	338, 339	88	2008
Bridge	W. S. Brelsfoard	624,618	May 9	1234	277	87	962
Bridge	W. A. Gunn	630,809	Aug. 8	2027	457	88	1132
Bridge	W. E. Gunn	629,902	Aug. 1	286	65	88	777
Bridge	H. E. Koch	627,509	June 27	2415	531	87	2140
Bridge	J. E. Locke	627,859	June 27	3058	669	87	2267
Bridge	A. Moyer	625,051	May 16	2013	453	87	1131
Bridge	M. Waddell	621,466	Mar. 21	1720	382	86	1860
Bridge	M. Waddell	637,050	Nov. 14	1573	339, 340	89	1264
Bridge and locking device therefor Draw-	W. L. Sampson	617,606	Jan. 10	1418	322, 323	86	294
Bridge and wharf floor construction	J. G. McMillan	617,471	Jan. 10	1169	267	86	247
Bridge. Bascule lift-	J. P. Cowing	633,811	Sept. 26	3013	700	88	2339
Bridge construction	C. M. Horton	621,672	Mar. 21	2094	468, 469	86	1933
Bridge. Draw-	C. F. Franson and E. Wilmann	630,879	Aug. 15	2148	487, 488	88	1179
Bridge. Draw-	F. Hoch	622,685	Apr. 11	924	212, 213	87	195
Bridge-gate	H. Chesman	634,717	Oct. 10	1380	325	89	292
Bridge-gate	W. A. Fusch	620,116	Feb. 28	2428	548, 549	86	1338
Bridge-gate. Automatic	G. E. Grover	638,633	Dec. 5	840	182	89	2027
Bridge gate. Draw-	J. P. Cowing	626,970	June 13	1408	311	87	1905
Bridge gate. Swing-	C. L. Prindle	635,589	Oct. 24	3014	692	89	641
Bridge girder or beam	A. Vierendeel	639,320	Dec. 19	2082	479	89	2309
Bridge. Lift-	A. Ruthenoerg	635,394	Oct. 24	2637	609	89	570
Bridge. Movable	C. L. Strobel	617,201	Jan. 3	644	150, 151	86	126
Bridge. Suspension-	A. Rieppel	625,902	May 30	3556	807	87	1470
Bridge. Suspension-	N. H. Sturgis	629,935	Aug. 1	375	81,82	88	797
Bridge. Swivel draw-	J. Edwards	625,097	May 16	2105	478	87	1147
Bridge. Trussed suspension-	W. H. H. Pittman	634,026	Oct. 3	77	21	89	20
Bridge-wing support	J. M. Jones	624,339	May 2	725	161	87	839
Bridges. Construction of metal-concrete-arch	H. V. Hinckley	623,904	Apr. 25	3158	728	87	663
Bridle	S. Van Buskirk	621,625	Mar. 21	1997	445	86	1912
Bridle-bit	W. P. Brown	632,439	Sept. 5	420	93	88	1789
Bridle-bit	F. Klein	637,802	Nov. 28	3371	706	89	1691
Bridle-bit	H. E. Metcalf	636,159	Oct. 31	4133	946	89	875

Alphabetical list of inventions—Continued.

Invention.	Name.	No.	Date.	Monthly volume.		Official Gazette.	
				Spec.	Dr'g.	Vol.	Page.
Bridle-bit	E. Payne	623,333	Apr. 18	2107	483	87	441
Bridle-bit	A. M. Pendleton	630,515	Aug. 8	1518	340	88	1031
Bridle-bit	G. E. Smith	637,170	Nov. 14	1822	391	89	1311
Bridle-bit	C. A. Spence	635,877	Oct. 31	3569	821	89	763
Bridle-bit holder	G. Schneider	617,300	Jan. 3	832	194	86	164
Bridle-bit rein-ring	P. Peterson	628,114	July 4	300	71	88	60
Brine. Purifying	G. N. Vis	623,295	Apr. 18	2038	------	87	427
Briquet-press	J. T. Davis	640,109	Dec. 26	3544	{814 815	{89	2620
Briquets. Apparatus for making	F. J. Müller	627,130	June 20	1697	372	87	1981
Broiler or gridiron	A. R. Talbot	630,014	Aug. 1	540	119	88	830
Broiling-pan. Wire	T. F. Cooney	639,150	Dec. 12	1749	404	89	2227
Broiling, roasting, or toasting device	J. Walton	634,224	Oct. 3	457	117	89	94
Bromin derivative of phthalimid and making same	J. Bredt	621,319	Mar. 21	1466	------	86	1811
Bronzing apparatus	V. Bauer	630,440	Aug. 8	1379	309	88	1005
Bronzing-machine	L. G. Adams and C. B. Masters	623,197	Apr. 18	1859	426	87	390
Brooch or ornamental breastpin	J. M. Rossi	627,013	June 13	1497	327	87	1923
Brooch safety device	E. L. Logee	629,380	July 25	2655	617	88	572
Brooder. Chicken-	E. F. Hodgson	622,148	Mar. 28	2995	677	86	2124
Brooder. Folding	M. M. Johnson	639,055	Dec. 12	1588	{364 365	{89	2195
Brooder or coop. Folding	G. M. Mason	635,794	Oct. 31	3409	786	89	733
Broom	W. Fanckboner	637,328	Nov. 21	2142	461	89	1388
Broom	O. S. Kulman	626,169	May 30	4136	941	87	1577
Broom-brace	A. Sahlström and J. E. Murdock	637,287	Nov. 21	2047	439	89	1369
Broom-handle	A. S. Allen	634,637	Oct. 10	1228	292	89	261
Broom-handle	J. F. Kinney	618,466	Jan. 31	3074	681	86	661
Broom-handle. Reversible	H. Thompson	626,820	June 13	1106	248	87	1846
Broom-handle. Spring	M. L. Rison	637,668	Nov. 21	3130	649	89	1623
Broom-head	J. J. Eck	624,310	May 2	678	149	87	830
Broom-head clamp	R. H. M. Miller	625,583	May 23	2950	671	87	1335
Broom-head-clamping device	S. P. Herron and C. F. Gray	639,978	Dec. 26	3316	759	89	2573
Broom-holder	D. S. Hughes and A. J. Munger	637,208	Nov. 14	1906	409	89	1326
Broom holder or rack	R. L. Edwards	634,883	Oct. 17	1673	394	89	365
Broom-moistener	W. Hardin, Jr	632,263	Sept. 5	101	21	88	1726
Broom-moistener	F. B. Maynard	630,086	Aug. 1	684	147	88	858
Broom-moistener	H. P. Smith	634,097	Oct. 3	199	49	89	43
Broom. Push-	J. Knecht	628,668	July 11	1377	322	88	286
Broom-reservoir	J. H. Nelson	636,687	Nov. 7	827	183	89	1090
Broom-spreader	F. C. Bowen	617,556	Jan. 10	1322	298	86	277
Brush	F. W. Barratt	630,844	Aug. 15	2090	473	88	1167
Brush	E. N. Broderick	639,348	Dec. 19	2135	491	89	2319
Brush	N. F. Carryl	617,316	Jan. 10	866	204	86	188
Brush	H. A. Ducat	626,529	June 6	569	132	87	1724
Brush	P. E. Erickson	624,464	May 9	955	213	87	907
Brush	C. L. Goehring	639,376	Dec. 19	2209	510	89	2335
Brush	C. H. Hansen	634,617	Oct. 10	1201	284	89	256
Brush	J. Hotchner	636,144	Oct. 31	4111	941	89	871
Brush	M. Hurvitz	636,408	Nov. 7	302	68	89	982
Brush	G. B. Hussey	624,336	May 2	721	160	87	838
Brush	D. S. Koons and W. F. Moughler	634,527	Oct. 10	1039	248	89	225
Brush	F. H. Loveless	637,270	Nov. 21	2016	432	89	1363
Brush	J. M. Poe	617,884	Jan. 17	1964	439	86	422
Brush	C. H. Raymond and G. W. Beal	632,748	Sept. 12	1029	238	88	1925
Brush	J. Schopp	638,762	Dec. 12	1086	243	89	2099
Brush	C. E. Thompson	634,546	Oct. 10	1082	257	89	233
Brush	D. W. Tower	637,680	Nov. 21	3163	656	89	1630
Brush and currycomb. Combined	A. M. Wightman	638,305	Dec. 5	226	47	89	1910
Brush and mop holder	W. D. Martin	635,333	Oct. 24	2496	580	89	541
Brush and shoe-cleaner. Combined blacking-	H. C. Vollmar	623,582	Apr. 25	2555	586	87	548
Brush attachment	J. A. Martin	619,975	Feb. 21	2166	492	86	1274
Brush. Blacking-	J. R. De Witt	623,397	Apr. 18	2218	509	87	463
Brush. Blacking-	J. J. Howe	627,421	June 20	2256	498	87	2092
Brush. Blacking-	E. P. Le Compte	634,059	Oct. 3	128	32	89	29
Brush. Bottle-washing	M. Kaefer	630,609	Aug. 8	1688	380	88	1065
Brush-bridle	L. W. Briggs	634,570	Oct. 10	1125	267	89	241
Brush-cleaner	M. C. Ryan	622,082	Mar. 28	2859	644	86	2096
Brush. Collapsible-tube	J. A. Symonds	631,000	Aug. 15	2373	541	88	1223
Brush. Dusting-	H. H. Ham	622,621	Apr. 4	781	181	87	149
Brush. Electric hair-	A. H. Burchard	627,295	June 20	1988	438	87	2040
Brush. Electric hair-	W. J. Werntz	640,056	Dec. 26	3444	792	89	2600
Brush. Electrical fountain-	C. Diehl	631,623	Aug. 22	3518	793	88	1468
Brush. Electrical hair-	A. J. Cook	629,340	July 25	2579	598	88	556
Brush. Feather	W. E. Hoag	621,414	Mar. 21	1612	358	86	1839
Brush. Finger tooth-	C. W. Richards	628,185	July 4	427	101	88	86
Brush. Fly-	I. W. Niles	619,781	Feb. 21	1822	417	86	1210
Brush for bicycle-chains	W. A. Hudelson	635,778	Oct. 31	3379	780	89	727
Brush for doorways. Automatic fly-	J. R. Hoit	633,591	Sept. 26	2641	616	88	2265
Brush. Fountain-	W. W. Lawrence	624,055	May 2	191	41	87	739
Brush. Fountain-	F. J. Parish	617,882	Jan. 17	1961	439	86	421
Brush. Hair-	W. H. Hippisley	621,917	Mar. 28	2573	580	86	2040
Brush-handle	J. Dupaw	619,252	Feb. 7	859	188	86	980
Brush-handle	E. W. Durant	630,600	Aug. 8	1675	{376 377	{88	1063
Brush-handle. Detachable	F. H. Lumbard	632,131	Aug. 29	4459	1003	88	1661
Brush-head case or cover. Tooth-	H. G. McCloskey	634,906	Oct. 17	1705	403	89	371
Brush-holder	S. H. Cochrun	619,941	Feb. 21	2111	478	86	1264
Brush-holder	S. H. Short	629,823	Aug. 1	113	28	88	742
Brush holder. Scrubbing-	J. E. Mullins	623,616	Apr. 25	2614	597	87	558
Brush-holder support	R. N. Baylis	629,418	July 25	2725	633	88	587
Brush. Liquid-blacking	W. H. Beeching	634,606	Oct. 10	1180	280	89	251
Brush-machine	M. Hellwig	622,768	Apr. 11	1052	244	87	220
Brush-machine block-holder	W. C. Read	623,560	Apr. 25	2513	{576 577	{87	540
Brush-making apparatus	A. L. Sonn	637,294	Nov. 21	2069	443	89	1373
Brush-making machine	W. H. Gates	625,755	May 30	3261	740	87	1414

Alphabetical list of inventions—Continued.

Invention.	Name.	No.	Date.	Monthly volume. Spec.	Monthly volume. Dr'g.	Official Gazette. Vol.	Official Gazette. Page.
Brush. Metallic tube-	A. Willis	637,314	Nov. 21	2109	455	89	1382
Brush. Rotary	N. Campbell	619,134	Feb. 7	646	139	86	938
Brush. Rotary	A. T. Condon and J. C. Ham	639,666	Dec. 19	2727	627	89	2438
Brush. Rotary	P. K. Westergard	629,225	July 18	2365	549	88	496
Brush. Rotary tooth-	M. P. Gill	622,948	Apr. 11	1375	316	87	281
Brush. Rotary tooth-	A. M. W. ter Laag	618,690	Jan. 31	3483	778	86	740
Brush. Scrubbing-	J. L. Gans	634,813	Oct. 10	1538	362	89	322
Brush. Shaving-	E. S. Rooney	624,686	May 9	1347	301	87	984
Brush. Shaving-	W. M. Seabury	625,960	May 30	3663	831	87	1491
Brush. Tooth-	A. V. Goltermann	632,524	Sept. 5	577	133	88	1821
Brush. Tooth-	F. A. McGinnis	637,522	Nov. 21	2491	540	89	1457
Brushes. Reversible handle-mounting for	H. Triest	624,708	May 9	1392	311	87	993
Bucket. Dinner-	G. Herburger	636,988	Nov. 14	1462	315	89	1242
Bucket. Dumping-	J. F. O'Rourke	627,306	June 20	2007	441	87	2044
Bucket. Dumping-	J. F. O'Rourke	632,323	Sept. 5	212	49,50	88	1749
Bucket-ear	W. R. Butter and A. Marr	631,845	Aug. 29	3931	879	88	1557
Bucket. Lunch-	R. C. Patteson	635,803	Oct. 31	3423	789	89	736
Bucket. Lunch-	N. E. Richardson	621,711	Mar. 21	2163	482	86	1947
Bucket. Ventilated lunch-	M. Gilmore	634,132	Oct. 3	282	69	89	59
Bucket. Well-	H. Nohsey	618,948	Feb. 7	277	59	86	864
Buckets. Means for tripping	L. A. Cook	622,840	Apr. 11	1186	276	87	244
Buckets, tubs, &c. Bail-fastener for	A. R. McDonnell	628,020	July 4	112	23	88	23
Buckle	M. L. Burkhardt	635,743	Oct. 31	3313	764	89	714
Buckle	D. G. Hurd	633,137	Sept. 19	1765	416	88	2080
Buckle	H. Kerngood	629,906	Aug. 1	296	67	88	778
Buckle	C. F. Knight	621,756	Mar. 21	2263	510	86	1966
Buckle	M. W. Lynch	623,252	Apr. 18	1956	447	87	410
Buckle	A. W. P. Malins	635,331	Oct. 24	2494	579	89	541
Buckle	J. Polka	617,183	Jan. 3	613	143	86	120
Buckle	H. Wagner, Jr., and J. H. Dailey	629,054	July 18	2063	481	88	439
Buckle. Back-band	D. T. Bryan	624,431	May 2	886	201	87	872
Buckle. Back-band	J. W. Kirkman	622,155	Mar. 28	3004	679	86	2126
Buckle. Back-band	J. W. Kirkman	627,339	June 20	2075	458	87	2058
Buckle. Back-band	T. A. Rhodes	626,442	June 6	420	99	87	1695
Buckle. Belt-	S. Bodwell	629,486	July 25	2864	666	88	613
Buckle. Belt-	G. M. Hubbard	639,048	Dec. 12	1575	360	89	2198
Buckle. Belt-	F. H. Mitchell	627,701	June 27	2780	609	87	2211
Buckle. Belt-	L. Sanders	624,871	May 9	1698	385	87	1053
Buckle. Belt-	L. Sanders	624,872	May 9	1699	385	87	1053
Buckle. Clamping-	W. E. Sell and W. C. Maynard	632,793	Sept. 12	1118	257	88	1944
Buckle. Clasp-	C. W. Rendell	626,393	June 6	340	79	87	1679
Buckle for overalls	B. G. Corser	630,037	Aug. 1	590	128	88	840
Buckle. Hame-tug	G. W. Moores	622,509	Apr. 4	572	134	87	108
Buckle. Harness-	L. B. Comer	626,220	June 6	12	3	87	1617
Buckle. Harness-	W. G. Davis	623,704	Apr. 25	2762	632	87	586
Buckle. Harness-	J. A. Gavitt	632,996	Sept. 12	1476	343	88	2013
Buckle. Harness-	H. C. Keeler	628,540	July 11	1111	259	88	234
Buckle. Harness-	E. Manes	628,718	July 11	1457	338	88	303
Buckle. Harness-	J. Polka	621,617	Mar. 21	1985	443	86	1910
Buckle. Harness-	P. Saup and C. Hauenstein	624,688	May 9	1349	301	87	985
Buckle. Hinged	J. R. Young	625,233	May 16	2328	530	87	1190
Buckle-shield	A. Burson	626,051	May 30	3881	881	87	1530
Buckle. Slide-	A. Landau	631,082	Aug. 15	2539	575	88	1256
Buckle. Suspender-	G. E. Adams	618,761	Jan. 31	3602	804	86	764
Buckle. Suspender-	M. L. Fuller	618,657	Jan. 31	3428	764	86	729
Buckle. Suspender-	S. K. Grover	630,059	Aug. 1	609	133	88	844
Buckle. Suspender-	J. F. Molloy	623,489	Apr. 18	2376	547	87	495
Buckle. Suspender-	M. Rubin	623,429	Apr. 18	2274	521	87	475
Buckle. Trace-	D. Foreman	630,878	Aug. 15	2147	487	88	1179
Buckle. Trace-	H. Hammer	636,334	Nov. 7	176	39	89	956
Buckle. Trace-	G. Hanke	639,033	Dec. 12	1556	357	89	2190
Buckle. Wire	J. C. Hyde	635,167	Oct. 17	2205	514	89	470
Buckstay	W. and J. Lanyon	621,576	Mar. 21	1918	428	86	1897
Buffer	M. Alma and E. Weiss	632,688	Sept. 12	918	214	88	1903
Buffer. Hydraulic	T. C. Fenton	636,126	Oct. 31	4082	934 935	89	865
Buffer. Stationary	F. Westmeyer	630,577	Aug. 8	1634	365	88	1055
Buffing and polishing machine for shovel-handles	W. D. Rowland	617,940	Jan. 17	2065	463	86	443
Buffing-machines. Abrasive pad-cover for	A. W. Rogers	631,675	Aug. 22	3606	814	88	1486
Buffing-machines. Making abrasive pad-covers for	A. W. Rogers and S. W. Winslow	626,300	June 6	151	36	87	1643
Buffing-machines. Making abrasive pad-covers for	A. W. Rogers and S. W. Winslow	626,301	June 6	152	37	87	1643
Buffing-wheel covering	G. Riley	630,109	Aug. 1	720	155	88	866
Bug gathering and destroying machine	J. N. Morgan	619,330	Feb. 14	1000	226	86	1025
Buggy-boot fastener	D. W. Kneisly	630,898	Aug. 15	2189	498	88	1187
Buggy-jack	C. D. Bowlus	627,095	June 20	1634	358	87	1968
Buggy or carriage body	W. S. Wilde	628,217	July 4	477	114	88	95
Buggy or carriage shoulder-rest	J. C. Byxbe	633,305	Sept. 19	2079	487	88	2143
Buggy-sunshade	F. Geiger	630,497	Aug. 8	1485	332	88	1025
Buggy-top	J. C. Lambert	636,150	Oct. 31	4118	942	89	872
Buggy-top	G. P. Mitchell	624,066	May 2	221	46	87	744
Buggy-top	A. Tesch	627,154	June 20	1939	382	87	1989
Buggy-top attachment	A. Peikert	626,719	June 13	919	208	87	1810
Buggy-top joint	R. D. Burchard	638,552	Dec. 5	687	145	89	1997
Buggy-top rest	J. Z. Miller	635,568	Oct. 24	2982	684	89	635
Buggy-top-rest holder	M. C. and L. S. Thomas	625,613	May 23	2996	683	87	1344
Buggy-top support	T. H. Mayfield	620,340	Feb. 28	2821	643	86	1413
Buggy-top support	W. W. Miller, Jr	624,341	May 9	1645	372	87	1043
Buggy-top window and curtain	J. Schnoor	630,991	Aug. 15	2361	538	88	1221
Building-block	C. A. Summerlott	630,012	Aug. 1	538	118	88	830
Building-blocks. Machine for molding hollow concrete	H. S. Palmer	623,686	Apr. 25	2732	626 627	87	581
Building-blocks. Manufacturing	W. Heimsoth and A. Flügge	639,037	Dec. 12	1560	-----	89	2191
Building-bolt. Self-locking	G. H. Dyer	638,384	Dec. 5	379	80	89	1939
Building construction. Metallic	T. Bailey	632,669	Sept. 5	852	198 199	88	1878
Building-partition	E. Ketchum	620,594	Mar. 7	76	15	86	1518

Alphabetical list of inventions—Continued.

Invention.	Name.	No.	Date.	Monthly volume.		Official Gazette.	
				Spec.	Dr'g.	Vol.	Page.
Building. Portable	W. E. Brock	638,494	Dec. 5	592	122	89	1979
Building. Portable	E. E. Dunbar	618,031	Feb. 7	58	12	86	815
Buildings. Electric protector for	J. Poché	637,409	Nov. 21	2295	494	89	1420
Bulkhead-door	J. S. Mucklé	626,551	June 6	603	139	87	1731
Bulkhead-door. Revolving cylindrical	W. Kirkaldy	626,327	June 6	208	51	87	1653
Bulkhead-door. Ship's	W. Houghton	629,790	Aug. 1	51	14	88	731
Bulkhead-doors. Apparatus for closing or opening	A. W. Montgomery-Moore	617,593	Jan. 10	1391	316	86	290
Bulkhead-doors. Hydraulic system for closing	W. B. Cowles	631,698	Aug. 22	3640	821, 822	88	1493
Bulkhead-doors. Means for automatically closing	A. von Knorring	622,956	Apr. 11	1390	319, 320	87	284
Bulkhead-doors. Means for automatically operating	C. T. Dörr and M. Stühler	617,855	Jan. 17	1903	425, 426, 427	86	410
Bullet	T. W. Webley	634,383	Oct. 3	784	187	89	155
Bullet-greasing machine	J. F. McGrail	620,350	Feb. 28	2834	646, 647	86	1416
Bullet or projectile	R. L. Wyatt	622,582	Apr. 4	719	167	87	137
Bulletin	E. S. Brooks	630,855	Aug. 15	2110	479	88	1172
Bulletin-board	F. E. D'Humy	617,574	Jan. 10	1360	308, 309	86	284
Bulletin-board	H. K. Lee	630,062	Aug. 1	646	139	88	851
Bunch-rolling-machine header	C. A. Baker	639,191	Dec. 12	1845	424, 425	89	2245
Bundle-discharging mechanism	J. F. Steward	634,964	Oct. 17	1809	429	89	393
Bundling-machine	W. Hindley and J. W. Harding	637,207	Nov. 14	1899	408, 409	89	1325
Bung	G. F. Bokel	628,747	July 11	1516	351	88	316
Bung	C. E. Clayton, Jr	628,195	July 4	438	104	88	88
Bung	J. Conrad	634,394	Oct. 3	799	193	89	158
Bung and faucet. Combined	C. C. Linindoll	635,693	Oct. 24	3198	738	89	679
Bung and spigot. Combined	A. B. Pickett and F. L. Branham	625,598	May 23	2975	676	87	1340
Bung and tap. Barrel	R. F. Burke	619,133	Feb. 7	644	138	86	937
Bung. Beer-barrel	W. Kirchhoff	633,519	Sept. 19	2472	582	88	2219
Bung. Beer-barrel	F. C. Opper	626,716	June 13	914	207	87	1809
Bung. Carbonic	G. Lejeune	639,412	Dec. 19	2271	524	89	2345
Bung. Faucet-	D. Beebe	628,298	July 4	657	153	88	127
Bung-hole and bushing	W. G. Gardiner	632,457	Sept. 5	454	101	88	1797
Bung or stopper. Expanding	C. A. Dies and R. Lundgren	625,653	May 23	3070	699	87	1359
Buoy	C. B. Wetterbergh	628,506	July 11	1032	240	88	219
Buoy. Automatic signal-	J. C. Smith	622,283	Apr. 4	151	35	87	31
Buoy. Electric	E. W. G. C. Hoffmann. (Reissue)	11,706	Jan. 3	851	199, 200	86	168
Burglar-alarm	J. Balsley	621,781	Mar. 28	2313	520	86	1990
Burglar-alarm	J. Balsley	621,782	Mar. 28	2315	520	86	1990
Burglar-alarm	C. H. Cooley	636,396	Nov. 7	285	64	89	978
Burglar-alarm	J. L. Cummings	622,037	Mar. 28	2792	629	86	2083
Burglar-alarm	J. H. Flentye	628,264	July 4	584	138	88	114
Burglar-alarm	H. A. Holloman	623,019	Apr. 11	1506	349	87	307
Burglar-alarm	C. Johnson	627,192	June 20	1800	395	87	2002
Burglar-alarm	E. P. Johnson	621,419	Mar. 21	1624	360	86	1842
Burglar-alarm	C. T. Kunz	617,931	Jan. 17	2052	460	86	441
Burglar-alarm	W. P. Murphy	625,980	May 30	3701	840	87	1498
Burglar-alarm	H. J. Pyle	636,695	Nov. 7	841	187	89	1093
Burglar-alarm	J. T. Rowley and J. R. Cavanagh	636,292	Nov. 7	119	26	89	946
Burglar-alarm	C. E. Spencer and J. T. Pethick	633,396	Sept. 19	2276	536	88	2180
Burglar-alarm	D. L. Wartzenluft	636,089	Oct. 31	4016	918	89	851
Burglar-alarm	J. W. Wigner	634,635	Oct. 10	1226	291	89	261
Burglar-alarm and door-check. Combined	W. H. Reiff	635,595	Oct. 24	3025	694	89	644
Burglar-alarm and lamplighter. Combined	J. J. Hinson	622,684	Apr. 11	923	212	87	195
Burglar-alarm. Door-locking	A. M. Benson	625,867	May 30	3494	791	87	1459
Burglar-alarm. Electric	C. Coleman	632,512	Sept. 5	546	126, 127	88	1815
Burglar-alarm. Electric	G. McGann	637,012	Nov. 14	1513	326	89	1252
Burglar-alarm. Electric	J. Tomney	619,448	Feb. 14	1205	274	86	1063
Burglar-alarm. Electrical	C. Coleman	626,670	June 13	815	186, 187	87	1791
Burglar-alarm for windows	R. Baumann	637,318	Nov. 21	2119	457	89	1384
Burglar-alarm. Portable	X L. Sage and F. T. McIntyre	624,982	May 16	1897	425	87	1109
Burglar-alarm. Safe	A. P. Prichard	627,527	June 27	2446	538	87	2146
Burglar-alarm system. Electric	D. W. McCaughey	621,361	Mar. 21	1532	341	86	1824
Burglar-alarm system. Electrical	C. Coleman	627,054	June 13	1557	341	87	1934
Burglar-alarm system. Electrical	C. Coleman	632,513	Sept. 5	554	127, 128	88	1817
Burglar-alarm system. Electrical	H. O. Megaard	627,006	June 13	1483	325	87	1920
Burial apparatus	J. L. Boyd	624,905	May 16	1758	397	87	1083
Burial apparatus	R. R. Kinney	630,459	Aug. 8	1420	318	88	1013
Burial apparatus	J. Pfeiffer	636,172	Oct. 31	4161	954	89	882
Burial apparatus	E. B. Voorhees	636,933	Nov. 14	1361	290	89	1222
Burial-apparatus clasp	J. D. Moore	633,208	Sept. 19	1898	447	88	2108
Burial-box	J. Wittig	636,736	Nov. 7	960	206	89	1126
Burial-case	G. S. Hill	621,413	Mar. 21	1612	358	86	1839
Burial-casket	C. M. Drennan	620,542	Feb. 28	3169	726	86	1480
Burial-casket	T. S. Garrison. (Reissue)	11,741	May 16	2471	561	87	1216
Burial-casket	C. E. Myers	623,806	Apr. 25	2968	678, 679	87	627
Burial-casket	E. O. Peoples	629,090	July 18	2139	497	88	455
Burial-casket	H. J. Secor	620,980	Mar. 14	838	183	86	1676
Burial-casket	J. A. Shippard	638,364	Dec. 5	348	73	89	1933
Burial-casket and handle	W. H. Antes	618,159	Jan. 24	2512	558	86	541
Burial-casket face-plate	W. Hamilton	619,567	Feb. 14	1399	321	86	1102
Burial-casket-lowering device	M. J. Cameron	634,876	Oct. 17	1664	392	89	363
Burial-casket trimming	H. T. Loomis	631,116	Aug. 15	2599	586, 587	88	1266
Burial couch and casket	C. Ordway	636,283	Nov. 7	105	23	89	943
Burial-crane	M. B. Lemley	634,008	Oct. 3	50	15	89	14

Alphabetical list of inventions—Continued.

Invention.	Name.	No.	Date.	Monthly volume. Spec.	Monthly volume. Dr'g.	Official Gazette. Vol.	Official Gazette. Page.
Burial structure	R. M. Hunter	617,161	Jan. 3	580	136, 137	86	113
Burner: *See* Atmospheric burner. Cactus-burner. Gas-burner. Hydrocarbon-burner. Hydrocarbon-liquid burner. Hydrocarbon-oil burner. Incandescent burner. Kerosene-burner. Lamp-burner. Liquid-fuel burner. Oil-burner. Petroleum-burner. Prickly-pear or cactus burner. Stump-burner. Torch-burner. Vapor-burner. Water-heater burner.							
Burner	E. C. Dickerson	631,622	Aug. 22	3517	792	88	1468
Burner	H. M. Hamrick	629,355	July 25	2614	607	88	563
Burner	H. M. Hamrick	629,357	July 25	2616	608	88	563
Burner	W. R. Jeavons	617,291	Jan. 3	817	191	86	161
Burner	J. A. Lannert and W. R. Jeavons	617,293	Jan. 3	822	192	86	162
Burner	G. Ragsdale	631,878	Aug. 29	3987	891	88	1568
Burner	H. F. Smith	623,386	Apr. 18	2199	504	87	459
Burner	H. F. Smith	628,995	July 18	1961	456	88	419
Burner attachment	B. Strauss	617,200	Jan. 3	643	150	86	126
Burner for heating purposes	F. H. Harriman	628,160	July 4	380	90	88	77
Burner for hydrocarburets	C. Rosier	620,185	Feb. 28	2552	578, 579	86	1360
Burner. Ground and fluid fuel	G. S. Emerick	635,376	Oct. 24	2583	600	89	559
Burner pressure device	G. A. Loeben	639,197	Dec. 12	1853	427	89	2246
Burner-tip	J. A. Vincent	624,133	May 2	344	70	87	765
Burner vaporizing attachment	F. E. and F. O. Stanley	637,428	Nov. 21	2325	501, 502	89	1426
Burners. Oil-supply system for	S. L. Jones	631,077	Aug. 15	2532	574	88	1254
Burning liquid fuel. Apparatus and system for	F. M. Ashley	624,889	May 9	1728	391	87	1059
Burning liquid fuel in steam-generators, &c. Apparatus for	J. J. Kermode	638,340	Dec. 5	289	59, 60	89	1922
Burning smoke, gas, &c. Apparatus for	D. W. Stapp	635,878	Oct. 31	3570	821	89	763
Burnishing-machine	M. J. O'Keefe	619,987	Feb. 21	2183	497	86	1277
Burnishing-tool	A. S. Vose	628,422	July 4	881	207	88	169
Bush. Bung-hole	W. J. Ritter	622,266	Apr. 4	117	27	87	25
Bushing and stopper. Faucet	R. Piotrowski	620,798	Mar. 7	482	101	86	1596
Bushing. Barrel-tap	E. M. Hewson	619,041	Feb. 7	164	97	86	900
Bushing. Outlet-	J. L. Morgan	638,350	Dec. 5	308	64	89	1925
Business transactions. Device for facilitating and economizing	F. L. Browne and W. T. Norton	635,731	Oct. 24	3288	759	89	695
Bust-form	J. Quigley	638,400	Dec. 5	410	86	89	1944
Bust-pad and chest-protector	M. F. Buchner	626,589	June 6	665	154	87	1743
Bustle	H. H. Keil	626,207	May 30	4203	955	87	1590
Bustle	T. P. Taylor	634,153	Oct. 3	316	80	89	66
Bustle	H. H. Taylor and M. B. Hammond	617,452	Jan. 10	1140	259	86	240
Butt-adjuster	D. Sincock	620,858	Mar. 7	600	130	86	1620
Butter-box. Export	A. Hart and C. A. Bramwell	627,259	June 20	1926	424	87	2027
Butter-cake forming and printing machine	F. Krabal	634,300	Oct. 3	622	152	89	125
Butter. Case or box for transit of	F. W. Wateridge	625,862	May 30	3482	789	87	1457
Butter. Compound for removing taint of onions or weeds from	S. S. Bately	624,891	May 9	1732	------	87	1059
Butter-cutting apparatus	R. A. Simpson	639,911	Dec. 26	3185	732	89	2547
Butter-cutting machine	R. R. Stone	624,261	May 2	580	124	87	809
Butter-extractor. Centrifugal	O. Ohlsson	621,127	Mar. 14	1120	244	86	1730
Butter-forming machine	J. E. Hunsinger	622,048	Mar. 28	2811	634	86	2086
Butter holding and slicing apparatus	G. B. Lehy	622,898	Apr. 11	1293	298	87	264
Butter. Machine for cutting, forming, and delivering blocks or pats of	J. C. Lawson	623,165	Apr. 18	1806	413, 414	87	380
Butter molder and cutter	L. Linkiewicz	633,865	Sept. 26	3114	723	88	2360
Butter-package	J. W. Barnes	623,116	Apr. 11	1700	393	87	344
Butter print and cutter	E. J. Barry	635,289	Oct. 24	2423	565	89	529
Butter. Process of and apparatus for making artificial	J. C. Uhlenbrock	625,478	May 23	2766	630	87	1298
Butter-shredder	V. G. Tice	625,215	May 16	2291	522	87	1182
Butter-worker	A. O. Butler	636,630	Nov. 7	722	158	89	1067
Butter-worker	J. T. Killin	622,491	Apr. 4	547	128	87	103
Butter-worker	A. F. Severance	631,337	Aug. 22	2995	679	88	1364
Button	C. Bachman	625,532	May 23	2358	651	87	1317
Button	C. A. Bryant	626,408	June 6	364	85	87	1684
Button	G. J. Capewell	619,277	Feb. 14	913	206	86	1006
Button	F. Clark	633,752	Sept. 26	2926	680	88	2321
Button	E. H. Danforth	620,425	Feb. 28	2951	677	86	1438
Button	G. W. Dover	636,960	Nov. 14	1405	300	89	1231
Button	C. J. Higley	622,683	Apr. 11	921	212	87	195
Button	R. Hörmann	631,212	Aug. 15	2756	623	88	1299
Button	S. Kauffmann	627,506	June 27	2412	530	87	2139
Button	H. Kindmann	631,216	Aug. 15	2760	624	88	1299
Button	S. A. Koltonski	633,097	Sept. 12	1679	395	88	2053
Button	W. I. Mizner	625,187	May 16	2247	511	87	1174
Button	F. G. Neubert	626,392	June 6	339	79	87	1679
Button	F. G. Neubert	631,378	Aug. 22	3063	693	88	1377
Button	F. G. Neubert	633,888	Sept. 26	3151	731	88	2367
Button	L. A. Platt	618,235	Jan. 24	2643	584	86	564
Button	L. A. Platt	631,379	Aug. 22	3064	694	88	1377
Button	L. A. Platt	637,485	Nov. 21	2420	525	89	1444
Button	C. Radcliffe	631,581	Aug. 22	3458	781	88	1456
Button	M. Salomon	636,455	Nov. 7	377	84	89	997
Button	F. I. Sherman	628,214	July 4	473	113	88	94
Button	C. H. Slocum	624,258	May 2	575	123	87	809
Button	H. Thurston	624,996	May 16	1914	429	87	1112
Button	J. V. Washburne	626,398	June 6	347	81	87	1681

Alphabetical list of inventions—Continued.

Invention.	Name.	No.	Date.	Monthly volume.		Official Gazette.	
				Spec.	Dr'g.	Vol.	Page.
Button	F. R. White	635,706	Oct. 24	3221	742	89	684
Button	D. M. Winans	626,744	June 13	957	217	87	1818
Button and button-fastener	R. A. Hall	618,868	Feb. 7	97	20	86	823
Button and button-fastener	O. W. Ketchum and W. W. Varney	618,883	Feb. 7	118	25	86	827
Button and cravat-holder. Collar-	S. A. Waterbury	625,226	May 16	2309	526	87	1186
Button and necktie-fastener. Combined collar-	J. H. Sherman	624,108	May 2	297	62	87	758
Button and necktie-holder. Collar-	H. Willis	634,931	Oct. 17	1745	414	89	379
Button-attaching machine	A. Berg	623,939	Apr. 25	3218	742	87	674
Button-attaching machine	F. R. White	624,279	May 2	619	134, 135, 136	87	816
Button. Badge-	A. Phelps	626,035	May 30	3857	874	87	1526
Button-blank-cutting machine	W. A. Pendry	638,881	Dec. 12	1291	293, 294	89	2137
Button-boring machine	D. B. Shantz	639,909	Dec. 26	3171	731	89	2542
Button. Collar-	W. R. Austin and W. N. Craw	638,618	Dec. 5	814	175	89	2022
Button. Collar-	J. Goldsmith, Jr	629,159	July 18	2262	524	88	477
Button. Collar-	J. E. Lecour	631,853	Aug. 29	3947	882	88	1561
Button. Collar-	H. E. Loveland	630,084	Aug. 1	680	146	88	857
Button. Collar-	I. W. Penney	625,516	May 23	2836	646	87	1313
Button. Collar-	W. O. Wheeler	637,189	Nov. 14	1859	400	89	1316
Button. Collar or cuff	J. B. Cavers	637,233	Nov. 21	1958	418	89	1352
Button. Cuff-	J. L. Briggs	619,932	Feb. 21	2090	475	86	1260
Button. Cuff-	J. E. Hills	624,486	May 9	989	220	87	914
Button. Cuff-	H. A. L. Libaire	626,433	June 6	404	95	87	1692
Button. Cuff-	W. Rohrbek	639,094	Dec. 12	1667	385	89	2211
Button. Detachable	J. R. Farrell	627,578	June 27	2550	561	87	2166
Button-drilling machine	C. P. Johnson	624,216	May 2	494	106	87	794
Button-drilling machine	F. M. Joslin	628,097	July 4	263	62, 63	88	52
Button-drilling machine	W. E. Nageborn	620,956	Mar. 14	780	171, 172	86	1666
Button eyelet attachment	J. V. Washburne	626,399	June 6	348	81	87	1681
Button-fastener	A. H. Lohse	633,868	Sept. 26	3120	724	88	2361
Button-finishing machine	T. F. Morrissey	634,306	Oct. 3	630	154, 155, 156	89	126
Button for cushion-seats. Tufting-	F. A. Neider	630,553	Aug. 8	1591	355	88	1046
Button. Glove-	C. R. Weidmüller	632,606	Sept. 5	719	166	88	1849
Buttonhole-cutter	C. A. Shultz	627,628	June 27	2659	583	87	2189
Buttonhole-moistener	D. F. Bagley	633,779	Sept. 26	2972	690	88	2331
Buttonholes. Means for finishing	C. A. Dahl and H. I. Illingworth	626,888	June 13	1280	280	87	1880
Button-lathe. Automatic	G. Griffin	628,981	July 18	1929	450, 451	88	412
Button. Link cuff-	H. V. Johnson	631,215	Aug. 15	2759	624	88	1299
Button link. Cuff-	C. Tilgner	635,985	Oct. 31	3788	872	89	807
Button-loop	J. Blumenthal	617,074	Jan. 3	414	101	86	80
Button-machine	C. W. Garis	621,453	Mar. 21	1693	375	86	1854
Button-making machine	W. J. Pugh	624,377	May 2	782	175, 176	87	850
Button-making machine	F. G. Rodler	620,184	Feb. 28	2551	578	86	1360
Button-making machinery	R. H. Beck	630,645	Aug. 8	1755	394, 395	88	1077
Button. Metallic	O. W. Ketchum	634,173	Oct. 3	351	90	89	73
Button or fastener	C. H. Goodwin	627,110	June 20	1663	363	87	1974
Button. Separable	A. Ducommun	634,056	Oct. 3	123	32	89	29
Button. Separable	G. W. Lee	621,831	Mar. 28	2404	537	86	2008
Button. Separable	D. W. Scalf	629,093	July 18	2143	498	88	456
Button-setting die	G. A. Holmes	625,302	May 16	2459	559	87	1214
Button-setting machine	E. Flagg	620,544	Feb. 28	3172	727	86	1480
Button-setting machine	O. W. Ketchum	623,163	Apr. 18	1804	413	87	379
Button-setting machine	I. A. Nash	620,550	Feb. 28	3186	729	86	1483
Button-setting machine	F. E. Stanley and F. E. Warner	639,456	Dec. 19	2351	542	89	2362
Button. Shirt-collar	W. O. Wheeler	620,391	Feb. 28	2901	665	86	1429
Button. Snap-	T. R. Hyde, Jr	623,720	Apr. 25	2785	637	87	590
Button. Upholsterer's	C. S. Ellis	637,720	Nov. 21	3225	671	89	1642
Button. Upholstering-	W. Consoer	639,667	Dec. 19	2728	627	89	2438
Buttons, &c. Machine for turning	D. B. Shantz	639,910	Dec. 26	3177	731, 732	89	2544
Buttons, &c. Machine for turning pearl	A. Masson and E. Fortin	624,060	May 2	201	44	87	741
Buttons or the like. Machine for cutting circular disks for	D. B. Shantz	631,677	Aug. 22	3608	814, 815	88	1486
Buttoner	G. F. Salisbury	639,442	Dec. 19	2326	537	89	2356
Cab. Hansom-	J. L. Lawrence	618,039	Jan. 17	2243	500	86	475
Cab. Hansom-	J. L. Lawrence. (Reissue)	11,734	Apr. 18	2404	552	87	501
Cab. Hansom-	L. Paradis and N. Desrosiers	634,651	Oct. 10	1251	297	89	266
Cab. Hansom-	G. J. Quinsler and G. W. McNear	638,141	Nov. 28	4041	852	89	1823
Cab. Hansom-	C. Thomas	617,888	Jan. 17	1970	440	86	423
Cabinet	W. D. Allison	622,195	Apr. 4	1	1	87	3
Cabinet	K. Glass	621,067	Mar. 14	1003	219	86	1707
Cabinet	F. A. Horle	633,318	Sept. 19	2129	499	88	2153
Cabinet	G. Welsh	631,836	Aug. 29	3913	875	88	1554
Cabinet	F. Yunck	621,889	Mar. 28	2523	568	86	2031
Cabinet and indexer. Rate	F. E. Coates	626,805	June 13	1079	243	87	1841
Cabinet and safe	D. N. Shoemaker	637,168	Nov. 14	1819	390	89	1310
Cabinet. Bill or envelop	F. Schilz	628,896	July 11	1784	415	88	367
Cabinet. Blank-	G. H. Megquier	631,257	Aug. 15	2844	642	88	1317
Cabinet. Combination kitchen-	A. D. Palmer	618,994	Feb. 7	389	81	86	886
Cabinet. Drop file-	C. H. Besly and T. J. Sullivan	640,155	Dec. 26	3619	832	89	2636
Cabinet. Flour-	J. H. Johnson and W. Fravel	618,682	Jan. 31	3463	773	86	737
Cabinet for laces, &c	J. E. Russell	634,589	Oct. 10	1154	274	89	247
Cabinet for sales accounts. Store-	C. Yorger and D. W. West	634,713	Oct. 10	1371	322	89	291
Cabinet for storing and handling groceries, sugar, &c.	E. A. Eustice and V. O. Bair	638,569	Dec. 5	714	152	89	2003
Cabinet-frame clamp	O. H. L. Wernicke	625,482	May 23	2769	630, 631	87	1299
Cabinet. Grocer's	W. E. Hewit	622,624	Apr. 4	785	183	87	149

Alphabetical list of inventions—Continued.

Invention.	Name.	No.	Date.	Monthly volume.		Official Gazette.	
				Spec.	Dr'g.	Vol.	Page.
Cabinet. Kitchen-	L. Arnold	638,373	Dec. 5	360	75	89	1935
Cabinet. Kitchen-	A. A. Cushman	633,754	Sept. 26	2929	680	88	2321
Cabinet. Kitchen-	A. W. and T. J. Eales	622,335	Apr. 4	241	55	87	46
Cabinet. Kitchen-	F. O. Goodale	637,456	Nov. 21	2373	513	89	1434
Cabinet. Kitchen-	W. H. May	621,533	Mar. 21	1845	409, 410	86	1883
Cabinet. Kitchen-	D. Pierce	633,901	Sept. 26	3173	737	88	2371
Cabinet. Label-	C. A. Knappenberger and H. H. Barnes, Jr.	619,190	Feb. 7	751	162	86	959
Cabinet. Lady's sewing-	J. P. Sbank	628,361	July 4	774	180	88	149
Cabinet. Manuscript-	A. A. Hoskin	620,777	Mar. 7	448	92	86	1589
Cabinet. Measuring and display	J. Tritz	624,406	May 2	841	190	87	862
Cabinet or paper-case	J. T. Hoyt	629,566	July 25	3002	701	88	640
Cabinet. Paper-	J. T. Hoyt	629,565	July 25	3000	701	88	639
Cabinet. Paper-	J. T. Hoyt	639,238	Dec. 19	1932	446	89	2277
Cabinet. Spool-thread	W. E. McCall	618,712	Jan. 31	3520	786	86	747
Cable-coupling	F. E. Case	625,828	May 30	3415	775	87	1443
Cable-coupling	E. S. Decker	630,806	Aug. 8	2020	456	88	1131
Cable driving attachment. Wire-	J. Hatfield	636,138	Oct. 31	4101	939	89	869
Cable-grip	G. S. Fouts	620,438	Feb. 28	2978	682	86	1443
Cable-grip	R. Jonsrud	621,345	Mar. 21	1507	334	86	1819
Cable-grip	L. J. Wilde	623,855	Apr. 25	3070	707	87	646
Cable hauling or drawing apparatus	C. H. Matchett	637,739	Nov. 21	3257	679, 680	89	1649
Cable-making machine	E. H. Johnson	624,817	May 9	1594	362, 363	87	1034
Cable-reel	E. Turney	629,115	July 18	2185	506	88	464
Cable-roads. Automatic grip for	J. Heenan	628,711	July 11	1447	336	88	301
Cable-support	W. A. Nordyke	622,778	Apr. 11	1068	248	87	222
Cableway and rope-carrier. Suspension	G. P. Wern	631,601	Aug. 22	3489	788	88	1463
Cable. Wire	J. Morlock	631,859	Aug. 29	3954	884	88	1563
Cables. Splice for old wire	P. T. Christensen	620,739	Mar. 7	375	77	86	1575
Cables, wire ropes, &c. Apparatus for holding	J. Carpenter	639,520	Dec. 19	2454	566, 567	89	2383
Cacao-butter. Extracting	A. C. M. Rieck	636,849	Nov. 14	1173	------	89	1186
Cactus-burner	C. H. Beever and W. A. McCoy	630,823	Aug. 8	2050	462	88	1137
Cactus-burner hood	L. W. Snowden	638,650	Dec. 5	867	189	89	2033
Cage. Dumping-	W. G. Halbert	638,114	Nov. 28	3982	838	89	1811
Cage or platform for use in decorating or other purposes.	F. Knoeferl	632,188	Aug. 29	4575	1030	88	1683
Caisson	J. F. O'Rourke	631,320	Aug. 22	2964	670	88	1358
Caisson and sinking same	W. D. H. Washington	633,298	Sept. 19	2072	485	88	2141
Caisson-hoisting and air-lock apparatus	B. Goldsborough	623,660	Apr. 25	2686	616	87	571
Caisson. Mining-	A. F. Lucas	637,137	Nov. 14	1766	379	89	1300
Cake-beater	G. Friedman	636,400	Nov. 7	290	65	89	979
Cake-dough mixer	R. Robinson	636,559	Nov. 7	590	130	89	1041
Cake-icing apparatus	J. Schinneller	623,185	Apr. 18	1840	421, 422	87	386
Cake-tin	R. B. Williamson	632,505	Sept. 5	532	122	88	1812
Cake-turner	E. D. Middlekauff	625,934	May 30	3610	821	87	1481
Cake-turner	W. J. Schultz	627,536	June 27	2468	543	87	2150
Cakes. Preparing cereal	J. H. Kellogg	634,003	Oct. 3	42	13	89	12
Calcining apparatus	W. T. Powers	618,902	Feb. 7	145	32	86	833
Calcining-furnace	C. M. Allen	633,777	Sept. 26	2967	688, 689	88	2330
Calcining-furnace	T. Calvert	622,327	Apr. 4	229	51	87	44
Calcining-furnace	W. B. Devereux	628,077	July 4	215	49, 50	88	43
Calcining-furnace	J. Godfrey and H. J. Hayes	637,864	Nov. 28	3510	733	89	1719
Calcining-furnace	A. H. Wethey	640,058	Dec. 26	3447	792, 793	89	2600
Calcium-carbid cake	F. L. White and W. M. Gilbert	625,945	May 30	3626	824	87	1484
Calcium-carbid cartridge	F. L. White	635,455	Oct. 24	2786	637	89	599
Calcium-carbid holder	G. Miller	635,865	Oct. 31	3549	817	89	759
Calcium carbid. Producing	W. S. Horry	628,806	July 11	1623	374	88	338
Calcium oxid. Treating	C. Straub	636,865	Nov. 14	1211	------	89	1193
Calculating device	J. L. Brown	624,621	May 9	1238	277	87	963
Calculating-machine	C. W. and R. L. Cleveland	638,097	Nov. 28	3948	830	89	1804
Calculating-machine	H. Goldman	617,094	Jan. 3	447	108, 109	86	87
Calculating-machine	H. Goldman	624,788	May 9	1527	348	87	1021
Calculating-machine	D. J. T. Hiett	638,118	Nov. 28	3987	839, 840, 841, 842, 843	89	1812
Calculating-machine	J. Mallmann	628,273	July 4	599	142, 143	88	116
Calculating-machine	J. B. Moore	618,427	Jan. 31	3013	667, 668	86	650
Calculating-machine	G. and R. Schwarz	637,167	Nov. 14	1815	390	89	1309
Calculating-machine	M. E. Temple	639,112	Dec. 12	1692	391, 392	89	2216
Calculating-machine	G. Zeidler	627,791	June 27	2932	642, 643	87	2243
Calculator	W. D. Conklin	633,989	Oct. 3	15	4	89	6
Calculator. Arithmetical	W. A. Drake	625,025	May 16	961	439	87	1121
Calculator. Time-	L. K. Sturm	629,879	Aug. 1	239	53	88	767
Calculator. Yardstick	E. Praeger	630,005	Aug. 1	520	114	88	826
Calendar	W. F. Maloney	629,864	Aug. 1	200	46	88	760
Calendar	D. O'Hare	623,813	Apr. 25	2979	682	87	629
Calendar. Desk-	O. Kling	617,832	Jan. 17	1866	417	86	403
Calendar for pencil-cases, walking-sticks, &c. Perpetual date-	J. T. Draper	633,435	Sept. 19	2340	552	88	2194
Calendar-holder	E. A. Henkle	634,343	Oct. 3	721	171	89	144
Calendar. Memorandum-	E. A. Armstrong	617,387	Jan. 10	1017	232	86	217
Calendar. Perpetual	J. L. Knight	633,520	Sept. 19	2473	582	88	2219

Alphabetical list of inventions—Continued.

Invention.	Name.	No.	Date.	Monthly volume. Spec.	Monthly volume. Dr'g.	Official Gazette. Vol.	Official Gazette. Page.
Calendar. Perpetual	E. Sorenson	627,212	June 20	1830	401	87	2008
Calendar. Perpetual	R. R. Vernon	621,589	Mar. 21	1937	433	86	1901
Calendering-machine	I. P. Dillon	623,204	Apr. 18	1870	428, 429	87	392
Calendering-machine	E. Gessner	632,714	Sept. 12	968	224, 225	88	1913
Calendering-machine	H. M. Harley and E. U. Gibbs	639,974	Dec. 26	3302	756, 757	89	2570
Calendering-machine	M. J. Wbitlock	619,107	Feb. 7	595	127	86	927
Calendering-machine	M. J. Wbitlock	639,915	Dec. 26	3191	733	89	2548
Calendering-machine attachment	F. M. Foster	631,783	Aug. 29	3833	854	88	1538
Caliper attachment	B. M. W. Hanson	639,560	Dec. 19	2539	583	89	2400
Caliper-gage	G. M. Van Valkenburg	634,968	Oct. 17	1822	431	89	395
Calipers	J. H. Culver	617,082	Jan. 3	426	103	86	82
Calipers	J. H. Smith	634,918	Oct. 17	1727	410	89	376
Calipers and valve-setting device. Combined	I. R. Kern	639,249	Dec. 19	1952	449	89	2281
Calipers. Inside	E. N. Bowker	635,088	Oct. 17	2052	483	89	442
Calipers. Micrometer-	F. Spalding and E. C. Thurston	626,876	June 13	1251	275	87	1874
Calking tool. Electric seam-	E. T. Tbomas	634,315	Oct. 3	656	159	89	132
Call system. Electric-	H. M. Dumas	632,964	Sept. 12	1428	330	88	2003
Calls and signals. System of	R. J. Louis	635,493	Oct. 24	2846	650	89	610
Cam mechanism	S. J. Adams	631,495	Aug. 22	3283	747	88	1420
Cam or pulley fastening	W. C. Davis	634,660	Oct. 10	1274	301	89	271
Cams, pulleys, &c. Frictional self-tightening fastening for	L. T. Sicka	633,163	Sept. 19	1821	428	88	2092
Camera	E. O. Schaaf	619,792	Feb. 21	1853	423	86	1215
Camera-base	L. von Grave	625,392	May 23	2620	596	87	1271
Camera focusing attachment	L. H. Wallace	622,574	Apr. 4	699	163	87	133
Camera. Folding photographic	G. Bourrelly	621,211	Mar. 14	1253	277	86	1758
Camera. Folding pbotographic	H. Hill and E. G. Price	622,853	Apr. 11	1208	281	87	248
Camera. Kinetographic	H. Casler	629,063	July 18	2078	484, 485	88	442
Camera. Kinetographic	A. Darling	635,466	Oct. 24	2805	640, 641	89	603
Camera. Kinetographic	O. B. Depue	622,451	Apr. 4	447	104, 105	87	83
Camera. Magazine-	A. L. Adams	617,268	Jan. 3	766	179	86	151
Camera. Magazine-	A. Angel	617,215	Jan. 3	670	155	86	131
Camera. Magazine-	A. Angel. (Reissue)	11,757	July 4	917	214	88	177
Camera. Magazine-	E. T. Carns	625,379	May 23	2601	592	87	1267
Camera. Magazine-	W. H. Doering	621,447	Mar. 21	1675	371, 372, 373	86	1850
Camera. Magazine-	R. A. Grout	638,455	Dec. 5	515	106, 107	89	1966
Camera. Magazine-	H. D. Haight and L. L. Cossitt	618,459	Jan. 31	3063	678	86	659
Camera. Magazine-	D. H. Houston	639,730	Dec. 26	2850	657	89	2480
Camera. Magazine-	N. E. Marchand	636,823	Nov. 14	1127	242	89	1176
Camera. Magazine-	T. E. Meadowcroft	635,497	Oct. 24	2853	651	89	611
Camera. Magazine-	J. A. Mosher	631,963	Aug. 29	4128	929, 930	88	1595
Camera. Magazine-	W. D. Robinson	619,695	Feb. 14	1647	377, 378	86	1149
Camera. Magazine-	R. H. Trumbull	638,300	Dec. 5	215	45, 46	89	1907
Camera. Multiplying-	J. W. Jenkins	620,036	Feb. 21	2278	517	86	1296
Camera multiplying attachment	J. L. Atwater	633,980	Oct. 3	1	1	89	3
Camera. Panoramic	C. H. Shaw	624,553	May 9	1119	252	87	939
Camera. Panoramic	L. Stark	621,545	Mar. 21	1869	414, 415	86	1887
Camera. Photographic	H. B. Carlton	628,302	July 4	664	156	88	128
Camera. Photographic	T. R. Dallmeyer	634,881	Oct. 17	1671	393, 394	89	365
Camera. Pbotographic	E. F. Edgecomb	638,102	Nov. 28	3960	833	89	1806
Camera. Photographic	F. E. Ives	632,573	Sept. 5	670	155	88	1839
Camera. Photographic	B. D. Sheffield	624,693	May 9	1363	305	87	987
Camera. Photographic	I. G. Sigler	632,431	Sept. 5	391	90	88	1784
Camera. Photographic	L. Wreede	622,315	Apr. 4	207	46	87	39
Camera. Photographic magazine-	A. Lechi	622,959	Apr. 11	1399	322	87	286
Camera reversible back	H. W. Locke	624,057	May 2	196	43	87	740
Camera. Roll-holding	E. B. Barker	618,930	Feb. 7	217	48	86	847
Camera. Roll-holding	W. V. Esmond	625,660	May 23	3082	701	87	1361
Camera. Roll-holding	E. Kronke	625,570	May 23	2932	666	87	1331
Camera-shutter	W. H. Witham	634,972	Oct. 17	1830	434	89	397
Camera. Submarine photographic	D. Mason	631,222	Aug. 15	2766	626	88	1301
Camera-support	H. W. Voss	627,629	June 27	2661	584	87	2189
Cameras. Multiplying attachment for photographic	T. J. Burfield	629,542	July 25	2967	692	88	634
Camp-chair and cane. Combination	U. Smith	617,661	Jan. 10	1515	344	86	315
Can: *See* Ash-can. Creaming-can. Garbage-can. Gate-can. Guarded can. Key-opening can. Liquid-holding can. Measuring-can. Medicine-can. Milk-can. Oil-can. Oil-storage can. Powder-distributing can. Self-sealing can. Sheet-metal can. Shipping-can. Shipping and delivering can. Valved can. Varnish-can. Water-can.							
Can	W. J. Gordon	635,769	Oct. 31	3357	776	89	722
Can	J. H. Leslie	634,243	Oct. 3	509	130	89	103
Can	G. H. Perkins	623,334	Apr. 18	2108	484	87	441
Can	H. W. H. Powel	637,996	Nov. 28	3743	787	89	1766
Can assembling and cooling device	F. B. Fulton and D. Cook	629,189	July 18	2309	536	88	486

Alphabetical list of inventions—Continued.

Invention.	Name.	No.	Date.	Monthly volume. Spec.	Monthly volume. Dr'g.	Official Gazette. Vol.	Official Gazette. Page.
Can-body-flanging device	A. Lotz	632,840	Sept. 12	1201	274, 275	88	1961
Can cap or cover	S. S. Martin	619,976	Feb. 21	2167	492	86	1275
Can-cap-wiring mechanism	H. H. Hull	634,112	Oct. 3	238	60, 61	89	50
Can-capping machine	J. Des Brisay	636,120	Oct. 31	4067	930, 931	89	862
Can-capping machine	J. Kellington	636,205	Oct. 31	4215	970, 971	89	893
Can-capping machine	J. M. K. Letson and F. W. Burpee	629,574	July 25	3013	703, 704, 705	88	642
Can-controlling device	O. S. Fellows	636,125	Oct. 31	4081	933, 934	89	864
Can cover. Oil-	M. B. Lloyd	627,197	June 20	1805	396	87	2003
Can-crimping machine	C. W. Sleeper	624,879	May 9	1710	387	87	1055
Can-cutting machine	T. J. Richmond, Jr	638,597	Dec. 5	773	168	89	2014
Can-end-forming die	J. M. K. Letson	629,575	July 25	3020	705	88	643
Can-filler	J. F. Burns	633,792	Sept. 26	2987	693	88	2334
Can-filling apparatus. Oil-	R. Dreyer	617,566	Jan. 10	1348	304	86	282
Can-filling machine	J. T. Kearns	625,170	May 6	2219	503	87	1168
Can-filling machine	E. Metzenaur	628,951	July 18	1882	437	88	403
Can for petroleum, &c	J. R. Bouhon	629,332	July 25	2568	595	88	553
Can-head cutting and shaping die	B. W. Morfoot	619,259	Feb. 7	868	190, 191	86	982
Can-heading machine	J. Brenzinger	637,761	Nov. 28	3304	690, 691	89	1676
Can-heading machine	R. D. Hume	620,653	Mar. 7	207	43	86	1542
Can-heading machine	M. A. Wheaton	619,106	Feb. 7	585	126, 127	86	925
Can holder and protector. Adjustable milk-	C. J. Abbe	639,645	Dec. 19	2685	616	89	2430
Can holder. Fruit-	J. Vander Stel	638,824	Dec. 12	1191	267	89	2119
Can-jacket	F. E. Jordan	622,806	Apr. 11	1116	259	87	231
Can lid or cover. Milk-	W. H. Neiman, Jr	623,380	Apr. 18	2186	502	87	456
Can lock-cover. Milk-	R. J. W. Hamill	623,957	Apr. 25	3252	748	87	680
Can-opener	J. H. Dawson	631,955	Aug. 29	4116	924	88	1593
Can-opener	A. E. Hadley	619,039	Feb. 7	462	97	86	900
Can-opener	A. H. Herron	627,752	June 27	2873	628	87	2232
Can-opener	C. S. Hopper	634,111	Oct. 3	237	60	89	50
Can-opener	E. D. Middlekauff	618,426	Jan. 31	3012	667	86	650
Can-opener	A. Pass	617,257	Jan. 3	751	176	86	148
Can-opener	G. Robinson	635,810	Oct. 31	3434	792	89	738
Can-opener	F. C. Smalstig	626,507	June 6	536	124	87	1718
Can-opener	L. C. Witkowski	635,219	Oct. 17	2298	536	89	487
Can-opening implement	W. N. Anderson	619,111	Feb. 7	600	129	86	928
Can spout and vent. Oil-	C. Peuss	626,034	May 30	3856	874	87	1526
Can top and lid. Milk-	A. L. Foreman	640,121	Dec. 26	3564	819	89	2624
Can-top for fish or meats	D. Hennessey	638,580	Dec. 5	741	159	89	2007
Can-wiping machine	J. Kellington	618,795	Jan. 31	3656	818, 819	86	774
Cans, bottles, jugs, jars, &c. Means for closing	J. F. Richmann	619,347	Feb. 14	1023	231	86	1029
Cans. Double rim for paint-	M. F. Hartnett	620,771	Mar. 7	434	89	86	1586
Cans, pitchers, &c. Closing device for	J. Gawron	616,913	Jan. 3	88	18	86	19
Cans, &c. Sealed lid for milk and meat	A. Gaulin	625,497	May 23	2806	639, 640	87	1307
Cans, tanks, &c. Screw-cap for	C. T. Brant	629,982	Aug. 1	470	102	88	816
Canned tamales	J. Bunzl	620,084	Feb. 21	2357	------	86	1310
Canning-machine	W. L. Du Vall	627,330	June 20	2060	454	87	2055
Canning-machine	O. Rubarts	640,034	Dec. 26	3409	781	89	2592
Canal. Ship-	A. Hogeland	630,457	Aug. 8	1418	316, 317	88	1013
Canceling machine. Stamp-	E. M. Vail and G. Potter	625,861	May 30	3473	788, 789	87	1454
Candle-extinguisher	G. Bacci and L. B. Piscopo	628,381	July 4	807	187	88	154
Candle-holder	J. A. Kiesele	629,791	Aug. 1	54	14	88	731
Candle-holder	R. F. Perkins	633,900	Sept. 26	3172	736	88	2371
Candle-holder	A. M. Phalempin	625,465	May 23	2746	625	87	1294
Candle-holder for Christmas trees	H. Stolze, Jr	630,423	Aug. 8	1353	302	88	1000
Candlestick	J. Schaffer	637,671	Nov. 21	3144	651	89	1626
Candlestick and fuse implement. Combined miner's	J. F. Layes	619,765	Feb. 21	1782	409	86	1201
Candlestick. Miner's	A. W. Powell	626,817	June 13	1101	247	87	1845
Candy-cleaning machine	W. S. Foster	630,336	Aug. 8	1142	250	88	963
Candy-machine	W. J. Morrison and J. C. Wharton	618,428	Jan. 31	3018	668	86	651
Cane and folding chair. Combined	N. Christianson	617,641	Jan. 10	1483	338	86	308
Cane and stool. Convertible	C. G. Skoog	636,074	Oct. 31	3991	913	89	846
Cane and umbrella. Combined	J. R. Nagell	629,460	July 25	2802	651	88	602
Cane. Apparatus for transferring sugar-	A. Barbay	630,165	Aug. 1	817	177	88	884
Cane carrier and feeder	D. H. Walsh	628,877	July 11	1740	407	88	359
Cane-knife	H. Disston	628,775	July 11	1564	361	88	325
Cane-mill	G. W. Fisher	638,629	Dec. 5	833	180, 181	89	2026
Cane-mill	R. R. Roberts	639,436	Dec. 19	2316	534, 535	89	2353
Cane scraper. Sugar-	J. M. Junca and D. P. J. Burguieres	631,722	Aug. 22	3710	833	88	1504
Cane-sling	D. H. Walsh	620,519	Feb. 28	3103	710	86	1468
Cane wagon. Sugar-	M. R. Spelman	617,198	Jan. 3	640	149	86	126
Canister. Revolving	C. C. Bell	618,219	Jan. 24	2607	577	86	557
Canopy for beds, couches, &c	P. M. Owen	636,548	Nov. 7	558	124	89	1033
Canopy-frame	C. B. Baggett	624,152	May 2	395	81	87	775
Canopy. Head-	S. Crocker	616,903	Jan. 3	68	14, 15	86	15
Canopy-support	J. C. Woodward	620,008	Feb. 21	2220	504	86	1285
Cant-hook	C. Prouty	637,157	Nov. 14	1796	385	89	1306
Canteen	G. S. Knapp	626,238	June 6	41	10	87	1623
Canvas-holder. Artist's	P. McDonough	634,064	Oct. 3	135	35	89	31
Cap	C. J. Holzenthaler	620,776	Mar. 7	447	92	86	1589

Alphabetical list of inventions—Continued.

Invention.	Name.	No.	Date.	Monthly volume.		Official Gazette.	
				Spec.	Dr'g.	Vol.	Page.
Cap	N. Jacobson	630,707	Aug. 8	1853	418 419	88	1096
Cap	I. Pachner	628,842	July 11	1678	391	88	348
Cap-spindle	J. W. Bamford	619,064	Feb. 7	508	107	86	909
Cap-spindle	E. S. Whitaker and J. Chadwick	633,302	Sept. 19	2076	486	88	2142
Cap-string fastener	J. Moll	622,250	Apr. 4	86	20	87	20
Caps for explosive charges. Device for applying protectors to fulminating-	W. E. Miller	636,919	Nov. 14	1333	286	89	1217
Capsule	J. Weyland	629,141	July 18	2234	------	88	472
Capsuling food extracts	C. R. Valentine	628,681	July 11	1398	------	88	290
Car	R. Wallace	619,029	Feb. 7	446	94	86	897
Car air-pipe coupling. Railway-	M. F. Sinclair	622,980	Apr. 11	1431	330	87	292
Car air-pipe coupling. Railway-	M. F. Sinclair	623,573	Apr. 25	2539	583	87	545
Car. Air-storage motor-	R. Hardie	616,922	Jan. 3	114	25,26	86	24
Car and air-brake coupling. Combined	M. A. Willumsen	624,143	May 2	363	75,76	87	769
Car and pipe coupling	J. P. Shafer	638,403	Dec. 5	414	87	89	1945
Car and portable turn-table	G. A. and R. F. Dunn	633,235	Sept. 19	1962	460	88	2120
Car and train ventilation. Railway	J. McCreery	626,389	June 6	335	77	87	1678
Car-annunciator	F. Burger and H. M. Williams	627,902	June 27	3142	687	87	2286
Car annunciator. Street-	E. C. Bates	627,171	June 20	1767	387	87	1995
Car attachment. Cattle-	M. A. Eatman	637,859	Nov. 28	3498	730	89	1717
Car attachment. Freight-	E. Peloubet	621,278	Mar. 14	1383	306	86	1782
Car-bearing	J. R. Baker	624,153	May 2	397	81	87	775
Car-bodies. Automatic horizontaling device for	F. Burger	637,498	Nov. 21	2450	532	89	1449
Car body-bolster	J. J. Casey and H. Pries	624,174	May 2	426	88	87	781
Car body-bolster	M. S. Shotwell	635,152	Oct. 17	2185	510	89	466
Car body-bolster. Railway-	T. M. Gallagher	632,180	Aug. 29	4552	1026	88	1679
Car-bolster	G. L. Harvey	622,465	Apr. 4	484	114	87	90
Car-bolster	D. B. Kennedy and W. B. Scaife	630,896	Aug. 15	2185	497	88	1187
Car-bolster	A. K. Mansfield	621,458	Mar. 21	1707	378	86	1857
Car-bolster	R. W. Oswald	638,749	Dec. 12	1070	239	89	2096
Car-bolster	J. Player	632,426	Sept. 5	386	88	88	1783
Car bolster. Railway-	J. C. Fortiner	638,105	Nov. 28	3969	834	89	1808
Car-brake	W. S. G. Baker	637,845	Nov. 28	3456	722	89	1708
Car-brake	J. C. Devlin	617,722	Jan. 17	1636	368	86	358
Car-brake	J. C. Ernest	637,748	Nov. 21	3273	683	89	1651
Car-brake	W. W. George	619,562	Feb. 14	1392	320	86	1100
Car-brake	E. B. and A. L. Gesche	617,650	Jan. 10	1500	342	86	312
Car-brake	C. Goetz and W. A. Huston	624,787	May 9	1525	347	87	1020
Car-brake	H. S. Goughnour	639,228	Dec. 19	1917	441	89	2273
Car-brake	P. S. Kingsland	636,672	Nov. 7	801	177 178	89	1084
Car-brake	G. Lewis	622,697	Apr. 11	939	217	87	198
Car-brake	L. L. Logan	624,831	May 9	1631	369	87	1040
Car-brake	L. L. Logan	628,890	July 11	1759	412	88	363
Car-brake	L. L. Logan	634,357	Oct. 3	742	177	89	148
Car-brake	L. L. Logan	638,639	Dec. 5	851	185	89	2030
Car-brake	J. Lyker	639,416	Dec. 19	2277	526	89	2346
Car-brake	T. O. Miller	618,230	Jan. 24	2632	581	86	562
Car-brake	G. H. Nichols and E. S. Williamson.	625,459	May 23	2739	623	87	1293
Car-brake	W. G. Price	625,849	May 30	3451	783	87	1450
Car-brake	J. Ritchie	640,031	Dec. 26	3399	779	89	2591
Car-brake	S. M. Rodgers and E. Scott	628,550	July 11	1132	264	88	238
Car-brake	C. V. Rote	617,772	Jan. 17	1733	389	86	376
Car-brake	J. Shelton	638,526	Dec. 5	647	134	89	1989
Car-brake	S. Stitts	617,199	Jan. 3	642	150	86	126
Car-brake	F. Theilengerdes	638,656	Dec. 5	874	191	89	2035
Car-brake	J. N. and N. P. Zech	640,069	Dec. 26	3473	797	89	2605
Car-brake adjuster	C. V. Rote	639,616	Dec. 19	2627	603 604	89	2418
Car-brake apparatus	J. A. Norton	624,239	May 2	548	117	87	803
Car-brake. Automatic	J. Buchel and F. McGloin	619,933	Feb. 21	2091	475	86	1260
Car brake mechanism. Railway-	J. H. Neal	632,319	Sept. 5	203	47	88	1747
Car brake. Railway-	J. H. Lee	618,885	Feb. 7	120	26	86	828
Car brake-shoe. Railway-	H. S. Power and J. A. Devore	619,990	Feb. 21	2193	499	86	1279
Car brake. Street-	W. F. Knell	629,193	July 18	2318	538	88	487
Car brake. Street-	J. G. Schumann	622,930	Apr. 11	1347	309 310	87	275
Car brake system. Street-	T. Reilly	631,262	Aug. 15	2856	644 645	88	1319
Car brakes. Pump for street-	W. F. Knell	629,194	July 18	2319	538	88	487
Car buffer. Railway-	J. A. Hinson	638,244	Dec. 5	80	18,19	89	1882
Car center plate. Railway-	C. F. Street	639,311	Dec. 19	2062	474	89	2304
Car check-holder. Mine-	C. R. Williams	634,049	Oct. 3	114	29	89	26
Car. Cinder-dumping	J. J. Gorman	631,071	Aug. 15	2517	569 570	88	1252
Car. Coal-	D. Butler	639,145	Dec. 12	1744	402 403	89	2226
Car. Combined day and sleeping	J. M. Burton	631,418	Aug. 22	3140	712	88	1392
Car construction	S. P. Bush	638,496	Dec. 5	596	123	89	1980
Car construction	B. O. Curtis	638,380	Dec 5	374	78	89	1937
Car construction	H. H. Sessions	634,218	Oct. 3	440	113 114	89	92
Car construction. Railway-	T. L. McKeen	640,148	Dec. 26	3607	829 830	89	2633
Car construction. Steel-	L. R. McAfoos	637,403	Nov. 21	2288	492	89	1418
Car controlling mechanism. Electric-railway-	S. H. Short	630,939	Aug. 15	2261	516	88	1202
Car. Convertible open and closed	H. Trost	632,600	Sept. 5	709	164	88	1847
Car. Convertible railway-	J. A. Brill	623,764	Apr. 25	2849	653 654	87	603
Car-coupling	W. F. Adams	629,884	Aug. 1	248	56	88	768
Car-coupling	J. P. Autrie	622,590	Apr. 4	736	170	87	140
Car-coupling	C. C. Babb	638,658	Dec. 5	878	192	89	2036
Car-coupling	S. Bändel	627,714	June 27	2805	614	87	2217

Alphabetical list of inventions—Continued.

Invention.	Name.	No.	Date.	Monthly volume.		Official Gazette.	
				Spec.	Dr'g.	Vol.	Page.
Car-coupling	A. J. Beard	624,901	May 16	1753	396	87	1082
Car-coupling	A. J. H. Beard	628,384	July 4	812	188	88	156
Car-coupling	L. Beese	627,379	June 20	2169	477	87	2076
Car-coupling	E. R. Berude	638,952	Dec. 12	1413	323	89	2163
Car-coupling	M. M. Bishop	616,881	Jan. 3	17	4	86	6
Car-coupling	W. L. B. and E. A. Carter	619,387	Feb. 14	1098	248	86	1044
Car-coupling	L. C. Cary	621,224	Mar. 14	1286	284, 285	86	1764
Car-coupling	J. J. Caton	630,655	Aug. 8	1773	399	88	1081
Car-coupling	M. J. Clark	627,324	June 20	2050	451, 452	87	2053
Car-coupling	J. Culton	632,701	Sept. 12	942	219	88	1907
Car-coupling	J. E. Cunningham	628,621	July 11	1267	295	88	266
Car-coupling	T. Cusick	636,957	Nov. 14	1399	298	89	1229
Car-coupling	C. Dietz	625,385	May 23	2609	594	87	1269
Car-coupling	J. W. Duty	629,344	July 25	2588	600	88	557
Car-coupling	A. I. Ellingson	631,067	Aug. 15	2507	567	88	1250
Car-coupling	V. Erbach	637,099	Nov. 14	1667	361	89	1281
Car-coupling	P. C. Ewart	629,497	July 25	2883	671	88	616
Car-coupling	T. Fildes	619,881	Feb. 21	2015	458	86	1246
Car-coupling	G. Findlay	622,674	Apr. 11	900	206	87	190
Car-coupling	I. A. Garber and U. Beall	619,559	Feb. 14	1386	319	86	1099
Car-coupling	F. Geiger	636,428	Nov. 7	340	76	89	990
Car-coupling	M. B. Giberson	638,505	Dec. 5	609	126	89	1983
Car-coupling	J. A. Graham, J. A. McGee, and F. H. Stark.	620,300	Feb. 28	2750	629	86	1401
Car-coupling	G. W. Hamilton	623,542	Apr. 25	2482	570	87	534
Car-coupling	G. C. Harlin	623,211	Apr. 18	1880	431	87	394
Car-coupling	R. S. Hart and W. Padgett	623,902	Apr. 25	3154	727	87	662
Car-coupling	A. R. Heath	634,341	Oct. 3	716	170	89	144
Car-coupling	C. D. Horgan	639,391	Dec. 19	2230	516	89	2339
Car-coupling	I. J. Hoyt	633,086	Sept. 12	1624	378	88	2043
Car-coupling	E. H. Janney	628,329	July 4	724	167	88	139
Car-coupling	E. H. Janney	628,330	July 4	726	168	88	139
Car-coupling	B. J. Johnson	633,517	Sept. 19	2468	581	88	2218
Car-coupling	A. Kelly	621,253	Mar. 14	1330	295	86	1772
Car-coupling	W. K. Kight	627,194	June 20	1802	395	87	2002
Car-coupling	P. J. Lee	618,886	Feb. 7	121	26	86	828
Car-coupling	N. B. Lewis and C. Spates	637,966	Nov. 28	3684	774	89	1754
Car-coupling	J. J. Malloy	621,836	Mar. 28	2413	539	86	2009
Car-coupling	S. C. Mason	621,266	Mar. 14	1354	301	86	1777
Car-coupling	B. W. Masterson	618,113	Jan. 24	2398	535	86	520
Car-coupling	T. J. McBride	618,121	Jan. 24	2416	539	86	522
Car-coupling	T. L. McKeen	629,587	July 25	3050	711	88	649
Car-coupling	S. J. Meeker	635,498	Oct. 24	2855	652	89	612
Car-coupling	C. Mehring. (Reissue)	11,754	July 4	911	213	88	175
Car-coupling	G. Meshamer	639,750	Dec. 26	2893	667	89	2489
Car-coupling	J. Meyer	638,024	Nov. 28	3807	800, 801	89	1777
Car-coupling	B. Milch	636,827	Nov. 14	1138	244	89	1179
Car-coupling	W. A. Oler	627,761	June 27	2883	630	87	2234
Car-coupling	W. Reese	629,173	July 18	2284	531	88	481
Car-coupling	S. Reynolds	632,366	Sept. 5	281	65	88	1762
Car-coupling	W. F. Richards	638,357	Dec. 5	327	69	89	1929
Car-coupling	W. F. Richards	638,358	Dec. 5	331	70	89	1929
Car-coupling	I. Saddlemire	629,614	July 25	3102	722, 723	88	659
Car-coupling	J. A. Sample	638,284	Dec. 5	183	39	89	1902
Car-coupling	P. Schreiner	636,567	Nov. 7	600	132	89	1043
Car-coupling	F. Sheldon and H. M. Milliken	621,163	Mar. 14	1176	255	86	1742
Car-coupling	L. N. Singin	636,361	Nov. 7	224	50	89	965
Car-coupling	G. W. Smillie	636,575	Nov. 7	613	135	89	1046
Car-coupling	S. Smith	623,845	Apr. 25	3049	701	87	642
Car-coupling	T. H. Smith	629,620	July 25	3111	724	88	661
Car-coupling	F. H. Stark	620,374	Feb. 28	2876	658	86	1424
Car-coupling	W. L. Stonesifer	632,904	Sept. 12	1332	305	88	1984
Car-coupling	J. O. Stow	619,699	Feb. 14	1654	380	86	1150
Car-coupling	C. A. Taylor	622,786	Apr. 11	1079	251	87	224
Car-coupling	J. B. Thomas	627,449	June 20	2306	508	87	2102
Car-coupling	W. B. Thomas	630,132	Aug. 1	756	163, 164	88	873
Car-coupling	J. Timms	624,707	May 9	1390	311	87	992
Car-coupling	G. W. Vickery	636,301	Nov. 7	130	28	89	948
Car-coupling	E. C. Washburn	617,134	Jan. 3	529	126	86	104
Car-coupling	E. C. Washburn	618,754	Jan. 31	3591	801, 802	86	762
Car-coupling	H. A. Weber	638,780	Dec. 12	1114	249	89	2104
Car-coupling	M. I. Welch	634,783	Oct. 10	1484	349	89	311
Car-coupling	F. H. Wendt	639,324	Dec. 16	2090	481	89	2310
Car-coupling	T. Whaley	619,032	Feb. 7	449	95	86	897
Car-coupling	T. Whaley	622,874	Apr. 11	1255	290	87	257
Car-coupling	C. D. Whiting	635,115	Oct. 17	2114	495	89	453
Car-coupling	J. T. Wilson	632,302	Sept. 5	180	41	88	1743
Car-coupling	J. C. Yeiser and E. B. Hancock	632,861	Sept. 12	1236	283	88	1968
Car-coupling and train-pipe-coupling mechanism. Combined air-operated	J. S. Bubb	620,564	Mar. 7	9	2,3	86	1504
Car-coupling. Automatic	C. E. C. Edey	635,757	Oct. 31	3337	772	89	719
Car-coupling. Automatic	G. A. Hermanson	623,471	Apr. 18	2342	538	87	489
Car-coupling hook	W. P. Hughes	619,827	Feb. 21	1902	434	86	1224
Car-coupling lock	J. O'Brien	625,895	May 30	3541	804	87	1467
Car-coupling locking device	G. P. Stewart	629,218	July 18	2356	547	88	494
Car-coupling-operating device	A. Keusink	639,899	Dec. 26	3157	727	89	2539
Car coupling. Railway	L. M. Orosz	630,817	Aug. 8	2040	460	88	1135
Car coupling. Railway	F. Schellinger and F. Kleiner	621,978	Mar. 28	2702	610	86	2064
Car-coupling safety device	J. D. Roche	621,144	Mar. 14	1149	250	86	1736
Car-coupling safety device	J. D. Roche	629,923	Aug. 1	344	76	88	789

Alphabetical list of inventions—Continued.

Invention.	Name.	No.	Date.	Monthly volume.		Official Gazette.	
				Spec.	Dr'g.	Vol.	Page.
Car-coupling uncoupling device	W. L. Park, R. W. Baxter, and W. R. McKeen, Jr.	633,700	Sept. 26	2837	660	88	2304
Car-door	J. N. Barr	631,496	Aug. 22	3285	747	88	1421
Car-door	I. N. Graham	621,070	Mar. 14	1006	221	86	1708
Car-door	L. A. Hoerr	636,040	Oct. 31	3884	892	89	825
Car-door	J. M. Hopkins	622,360	Apr. 4	281	64	87	54
Car-door	G. P. Jones	623,282	Apr. 18	2013	463	87	422
Car-door	G. P. Jones	623,283	Apr. 18	2014	463	87	422
Car-door bracket	W. A. McGuire	618,282	Jan. 24	2716	603	86	578
Car-door bracket	H. Vissering and L. A. Hoerr	629,832	Aug. 1	144	33	88	749
Car-door cleat	W. M. Miller	626,074	May 30	3915	889	87	1537
Car-door fastener	H. C. Phillips and H. Hogan	631,051	Aug. 15	2475	561	88	1244
Car-door fastener	H. Pries and J. W. Meyer	638,758	Dec. 12	1081	242	89	2098
Car-door fastening	A. W. Prescott	619,991	Feb. 21	2194	499	86	1279
Car-door fastening	R. C. Schenck	623,259	Apr. 18	1974	452	87	413
Car door. Freight-	P. G. Minier	635,074	Oct. 17	2023	478	89	437
Car door. Grain-	G. C. Camehl and J. H. Foggitt	629,422	July 25	2734	636	88	589
Car door. Grain-	A. Fink and F. Paplow	624,316	May 2	688	151, 152	87	832
Car door. Grain-	L. Gookins	620,118	Feb. 28	2432	549	86	1339
Car door. Grain-	A. N. and F. P. Hopkins	627,852	June 27	3046	665, 666	87	2265
Car door. Grain-	W. M. Linvill	617,444	Jan. 10	1126	257	86	238
Car door. Grain-	W. A. McGuire	621,842	Mar. 28	2423	541	86	2012
Car-door lock	R. D. Smith and F. A. Delano	618,445	Jan. 31	3043	673	86	655
Car-door lock	C. P. Waters	629,974	Aug. 1	459	99	88	814
Car-door lock and hanger	I. W. Donat	621,554	Mar. 21	1888	419	86	1891
Car-door-operating mechanism. Freight-	A. E. Witt	636,880	Nov. 14	1243	268	89	1199
Car doors and sides. Means for protecting	J. E. Jones	621,344	Mar. 21	1504	334	86	1819
Car. Double-deck	J. A. Brill	632.041	Aug. 29	4280	961, 962	88	1625
Car draft-gear. Railway-	H. M. Perry	624,084	May 2	245	51, 52	87	749
Car draft-rigging	H. C. Williamson and H. Pries	628,237	July 4	515	125	88	103
Car draft-sill. Railway-	J. A. Hinson	636,431	Nov. 7	344	77, 78	89	991
Car draw-head. Railway-	T. L. McKeen	640,147	Dec. 26	3606	829	89	2633
Car. Dump-	F. S. Ingoldsby	632,650	Sept. 5	804	187, 188	88	1866
Car. Dump-	T. V. Wallace	621,186	Mar. 14	1215	266	86	1750
Car. Dumping-	N. Barney	622,909	Apr. 11	1309	301	87	267
Car. Dumping-	M. F. Blake	635,646	Oct. 24	3117	717	89	663
Car. Dumping-	R. E. Broyles	634,874	Oct. 17	1661	391	89	363
Car. Dumping-	M. G. Bunnell	634,682	Oct. 10	1310	309	89	278
Car. Dumping-	M. G. Bunnell	634,683	Oct. 10	1313	310	89	279
Car. Dumping-	M. G. Bunnell	634,684	Oct. 10	1315	310, 311	89	279
Car. Dumping-	M. J. McKinnon	622,382	Apr. 4	312	72	87	60
Car dust-conveyer	C. B. Evridge	629,346	July 25	2595	601, 602	88	558
Car dust-guard. Passenger-	J. E. Scott	629,306	July 18	2504	583, 584	88	521
Car dust-guard. Railway-	J. S. McKenzie	634,473	Oct. 10	948	225	89	207
Car-engine. Reciprocating	J. McIntyre and E. Baltzley	617,470	Jan. 10	1165	266	86	245
Car fastener. Stock-	J. C. Pearson	620,049	Feb. 21	2304	523	86	1300
Car-fender	F. E. Bemelmans	626,480	June 6	485	113	87	1708
Car-fender	H. Bick	637,443	Nov. 21	2351	507	89	1431
Car-fender	W. Bonham	633,636	Sept. 26	2723	634	88	2280
Car-fender	A. M. Bowers	637,227	Nov. 21	1949	416	89	1350
Car-fender	J. J. Buckley	638,699	Dec. 12	982	219	89	2077
Car-fender	H. C. Cady	620,275	Feb. 28	2698	619	86	1390
Car-fender	G. W. Donning	620,573	Mar. 7	35	7	86	1509
Car-fender	A. H. Etheridge	619,738	Feb. 21	1740	397	86	1192
Car-fender	R. Forwood	631,933	Aug. 29	4073	914	88	1585
Car-fender	J. W. A. Gardam and F. J. Hull	637,725	Nov. 21	3231	672, 673	89	1643
Car-fender	R. W. Gibson	620,581	Mar. 7	53	11	86	1512
Car-fender	G. Hipwood	633,361	Sept. 19	2206	518	88	2167
Car-fender	W. Jackson	639,577	Dec. 19	2564	589	89	2405
Car-fender	M. Luther	628,271	July 4	597	141	88	116
Car-fender	V. T. Lynch	627,584	June 27	2558	564	87	2167
Car-fender	G. Mauro	628,275	July 4	610	144	88	118
Car-fender	J. Megown	631,993	Aug. 29	4188	942	88	1606
Car-fender	W. Morck	635,445	Oct. 24	2769	633	89	595
Car-fender	G. W. Naylor	626,290	June 6	127	32, 33	87	1638
Car-fender	P. Nilsson	634,092	Oct. 3	189	47	89	42
Car-fender	W. Northrup and J. Knowles	621,476	Mar. 21	1738	387, 388	86	1863
Car-fender	G. Rischmuller	619,841	Feb. 21	1936	440, 441	86	1232
Car-fender	R. Salomone	628,119	July 4	304	72	88	61
Car-fender	T. Small	632,068	Aug. 29	4335	974	88	1635
Car-fender	W. E. Smith	626,639	June 6	754	173	87	1760
Car-fender	W. P. Tucker	630,757	Aug. 8	1930	436	88	1111
Car-fender	C. B. Wood	627,713	June 27	2804	614	87	2217
Car-fender. Detachable	R. Hearns	628,003	July 4	86	17	88	18
Car fender. Street-	B. B. Cutler	619,011	Feb. 7	411	86	86	890
Car fender. Street-	G. H. Hollingsworth	628,145	July 4	352	84	88	71
Car fender. Street-	S. Joseph	618,228	Jan. 24	2625	580	86	261
Car fender. Street-	J. H. Parmelee	639,823	Dec. 26	3028	697	89	2516
Car fender. Street-	G. Rittenhouse and D. Phelps	619,790	Feb. 21	1849	422	86	1214
Car fender. Street-	L. N. Smyth and N. B. Dieterich	634,508	Oct. 10	1005	240	89	218
Car fender. Street-	F. Walter	626,116	May 30	4025	919	87	1555
Car floor-frame. Railway-	J. S. Francis	633,377	Sept. 19	2236	526, 527	88	2173
Car for coke. Self-dumping	J. M. Maris	630,385	Aug. 8	1260	274, 275	88	985
Car for gravity-railways, &c. Pleasure-	M. C. Campbell	620,415	Feb. 28	2934	673	86	1434

Alphabetical list of inventions—Continued.

Invention.	Name.	No.	Date.	Monthly volume. Spec.	Monthly volume. Dr'g.	Official Gazette. Vol.	Official Gazette. Page.
Car for transporting fruit or vegetables	C. E. Nicols	637,478	Nov. 21	2411	523	89	1442
Car-frame	F. E. Canda	628,575	July 11	1182	276, 277	88	248
Car-frame	F. E. Canda	635,653	Oct. 24	3133	721	89	666
Car-frame	F. E. Canda	639,192	Dec. 12	1846	425	89	2245
Car-frame bolster. Logging	S. Parker	623,733	Apr. 25	2801	640	87	593
Car. Freight	W. A. Caswell	619,670	Feb. 14	1590	363	86	1138
Car. Gallery	F. Steffens and O. F. Koss	624,116	May 2	321	66	87	761
Car-gate	E. P. Sargent	623,039	Apr. 11	1538	355	87	314
Car grain-door. Freight	E. W. Morten	639,597	Dec. 19	2593	595	89	2411
Car grain-door. Railway	B. W. Davis	617,642	Jan. 10	1485	338	86	309
Car grip. Coal	M. Jolliffe	636,904	Nov. 14	1289	278	89	1209
Car guard. Freight	P. R. Trethewey	623,580	Apr. 25	2553	586	87	547
Car. Hand	J. Milliron	617,344	Jan. 10	932	215	86	201
Car head-block. Railway	J. A. Hinson	635,322	Oct. 24	2479	576	89	538
Car-heater	R. M. Dixon	618,849	Feb. 7	52	11	86	814
Car heating and ventilating apparatus	J. C. Fleming	633,824	Sept. 26	3035	705	88	2344
Car-heating apparatus	J. Frumveller	619,402	Feb. 14	1120	253	86	1048
Car-heating system	W. Kinsey	633,140	Sept. 19	1777	419	88	2083
Car-heating system	J. F. McElroy	630,627	Aug. 8	1731	388	88	1072
Car. Hopper	M. Brosnan	626,748	June 13	966	219	87	1819
Car illuminated sign. Street	W. R. Evans	624,776	May 9	1511	344	87	1017
Car journal-box. Railway	A. M. Waitt and H. F. Ball	631,348	Aug. 22	3007	682	88	1367
Car journals. Lubricator for hot boxes of railway	J. A. Wheeler	625,002	May 16	1924	431	87	1114
Car life-guard. Railway	G. A. Parmenter	623,818	Apr. 25	2989	684, 685	87	631
Car life-guard. Street	R. F. Preusser	634,834	Oct. 10	1575	370	89	330
Car life-saving guard. Street	J. H. Robinson	623,929	Apr. 25	3200	737	87	670
Car-motor regulator. Electric	H. S. Maxim	625,454	May 23	2732	622	87	1291
Car-line. Elevated electric	J. H. Cooley	639,713	Dec. 26	2823	651	89	2474
Car-loader	H. Phillips and W. Hunt	632,202	Aug. 29	4591	1034, 1035	88	1686
Car-loading apparatus	G. W. Decker	621,043	Mar. 14	968	210, 211	86	1701
Car-loading apparatus	P. Oberst	617,968	Jan. 17	2111	473	86	451
Car-loading apparatus. Grain	J. C. McIntosh	634,122	Oct. 3	257	64, 65	89	54
Car-mover	O. E. Rose	636,183	Oct. 31	4182	960	89	886
Car or train lighting system for electric railways	E. R. Hill	633,971	Sept. 26	3298	768	88	2396
Car or train ventilation. Railway	J. McCreery	631,902	Aug. 29	4022	901	88	1575
Car or train ventilation. Railway	J. McCreery	632,469	Sept. 5	470	107	88	1800
Car partitioning device. Railway	W. H. Gummere	633,835	Sept. 26	3055	710	88	2349
Car pipe connection. Railway	T. Griffiths	618,661	Jan. 31	3433	765	86	731
Car platform. Railway	C. W. Coller and J. S. Naery	627,905	June 27	3147	688, 689	87	2287
Car. Poultry	F. X. Mudd and E. Hedrick	636,546	Nov. 7	553	122, 123	89	1033
Car. Protected express	H. L. Branstetter	638,551	Dec. 5	686	144	89	1997
Car. Railway	A. Amiotte	639,647	Dec. 19	2689	617	89	2431
Car. Railway	S. M. Curwen and J. A. Brill	634,396	Oct. 3	802	194, 195	89	159
Car. Railway	J. F. Dunn	634,749	Oct. 10	1440	339	89	302
Car. Railway	J. M. Jones	639,580	Dec. 19	2569	589, 590	89	2406
Car. Railway	C. M. Mileham	633,205	Sept. 19	1888	445	88	2105
Car. Railway	J. Nash	630,552	Aug. 8	1590	355	88	1046
Car. Railway	L. T. Pyott	618,480	Jan. 31	3095	685	86	665
Car. Railway	W. F. Richards	620,803	Mar. 7	490	103, 104	86	1598
Car. Railway	J. H. Robertson	621,142	Mar. 14	1145	249	86	1735
Car-record apparatus	W. E. Beecham	618,388	Jan. 31	2937	650	86	637
Car-replacer	J. Lanius	620,462	Feb. 28	3015	689, 690	86	1450
Car-replacer	A. L. Sprague	633,739	Sept. 26	2905	674	88	2317
Car-replacer	W. B. Weiss	626,400	June 6	349	81	87	1681
Car-replacer	I. H. Wise	634,100	Oct. 3	208	52	89	46
Car-roof	E. C. Ewing	636,781	Nov. 14	1067	227	89	1164
Car-roof	C. M. Jennings	632,016	Aug. 29	4228	951, 952	88	1615
Car-roof	A. N. Monteer	620,162	Feb. 28	2500	568	86	1353
Car-roof	D. Watson	639,322	Dec. 19	2085	480	89	2310
Car-roof. Double	C. H. Hutchins	617,289	Jan. 3	812	189	86	160
Car-roof. Double	C. H. Hutchins. (Reissue)	11,729	Apr. 4	861	197, 198	87	164
Car-roof. Double	C. H. Hutchins	624,654	May 9	1290	288, 289	87	972
Car-roof. Metallic	W. E. Sturdavant	627,151	June 20	1732	380	87	1988
Car roof. Railway	C. A. Smith	629,877	Aug. 1	235	52	88	766
Car safety-bridge. Railway	W. R. Connell	633,639	Sept. 26	2726	635	88	2281
Car safety-ladder	J. H. Rapp	636,177	Oct. 31	4170	957	89	884
Car sand-box	J. C. Duner	639,891	Dec. 26	3144	723	89	2537
Car sand-box	A. W. Ham	621,815	Mar. 28	2376	531	86	2002
Car-seat	G. W. Dryer	631,204	Aug. 15	2739	620, 621	88	1295
Car-seat	E. U. Gibbs	639,894	Dec. 26	3151	724, 725	89	2538
Car-seat	H. S. Hale	626,831	June 13	1127	252	87	1849
Car-seat	J. S. Johnston	625,885	May 30	3526	801	87	1495
Car-seat	J. S. Johnston	639,923	Dec. 26	3204	735	89	2551
Car-seat	J. Kirby, Jr.	630,290	Aug. 1	1028	227	88	925
Car-seat	P. M. Kling	621,825	Mar. 28	2393	535	86	2005
Car-seat	W. M. Norcross	623,255	Apr. 18	1961	448	87	411
Car-seat	W. M. Norcross	623,256	Apr. 18	1963	448	87	411
Car-seat. Ball-bearing	J. S. Johnston	629,258	July 18	2425	562	88	506
Car side bearing	S. P. Bush	634,323	Oct. 3	674	163	89	135
Car side bearing. Railway	J. P. Hatcher	638,240	Dec. 5	65	15	89	1879
Car side bearing. Railway	C. F. Huntoon	638,336	Dec. 5	284	58	89	1921

Alphabetical list of inventions—Continued.

Invention.	Name.	No.	Date.	Monthly volume. Spec.	Monthly volume. Dr'g.	Official Gazette. Vol.	Official Gazette. Page.
Car side bearing. Railway-	S. D. King	630,358	Aug. 8	1188	261	88	973
Car side bearing. Railway-	W. W. Wooll	627,169	June 20	1763	386	87	1994
Car-sign. Illuminated	G. F. Bostwick	638,170	Nov. 28	4090	863	89	1832
Car sign. Illuminated street-	E. E. Dodge	631,700	Aug. 22	3650	823	88	1495
Car-signal. Revolving	J. J. Harrell	622,223	Apr. 4	47	11	87	12
Car signaling device. Railway-	H. S. Rodgers	635,391	Oct. 24	2632	607	89	569
Car sill or stringer	R. W. Oswald	622,971	Apr. 11	1414	326	87	289
Car. Sleeping-	H. C. Haskins	619,173	Feb. 7	719	155	86	952
Car. Sleeping-	H. C. Haskins	619,174	Feb. 7	721	155, 156	86	952
Car speed-indicator. Street-	O. E. Hausburg	622,351	Apr. 4	262	60	87	50
Car-spring spring-seat	A. O. Buckius	623,942	Apr. 25	3224	743	87	675
Car-starter	F. B. Nims	619,986	Feb. 21	2181	496	86	1277
Car-step	S. Oliger	620,666	Mar. 7	232	48	86	1547
Car-step	H. E. Spink	619,800	Feb. 21	1867	426	86	1217
Car step and platform	N. Gray	623,401	Apr. 18	2224	510	87	464
Car-step. Extension	A. C. Wrede and D. R. Saunders	630,764	Aug. 8	1941	438	88	1114
Car-step. Folding	N. Gray	623,400	Apr. 18	2222	509	87	464
Car-step lifter	T. Millen	625,935	May 30	3611	821	87	1481
Car-step. Supplemental	A. Heilprin	634,618	Oct. 10	1203	285	89	256
Car. Stock-	J. T. Jackson	618,986	Feb. 7	375	78	86	883
Car-strap. Adjustable	H. Murray	633,363	Sept. 19	2211	519	88	2168
Car. Street-	W. T. Fernandez	629,498	July 25	2886	672	88	617
Car. Street-	E. R. Whitney	639,123	Dec. 12	1712	395	89	2220
Car street-indicating device. Street-	S. Squire and A. Knowles	633,623	Sept. 26	2702	628, 629	88	2276
Car street-indicator	C. H. Buchwalter	624,906	May 16	1760	397	87	1083
Car street-indicator. Railway-	C. Green and J. P. O'Sullivan	624,478	May 9	979	217, 218	87	912
Car. Street-railway	E. G. Allen	618,047	Jan. 24	2265	505	86	495
Car. Street-railway	E. G. Allen	622,656	Apr. 11	869	199, 200	87	185
Car. Street-railway	J. W. Evans	634,234	Oct. 3	488	122, 123	89	99
Car-switch	S. Parson	637,154	Nov. 14	1793	385	89	1305
Car-switch-operating attachment	S. Parson	637,155	Nov. 14	1794	385	89	1305
Car trailers. Brake for street-	H. T. Brown	635,650	Oct. 24	3129	720	89	665
Car-transom	J. Hickey	637,786	Nov. 28	3344	700	89	1685
Car-transom	J. Hickey	637,787	Nov. 28	3345	700	89	1686
Car-transom	J. Hickey	637,788	Nov. 28	3346	701	89	1686
Car-transom	M. B. Schaffer	624,255	May 2	572	122	87	808
Car-transom	M. B. Schaffer	626,443	June 6	421	100	87	1695
Car-truck fender. Street-	G. W. Butterfield	638,442	Dec. 5	489	99	89	1960
Car truss-rods. Adjustable bearing for railway-	J. J. Souder	619,357	Feb. 14	1044	234	86	1034
Car-underframe	W. B. Bettendorf	625,534	May 23	2860	652	87	1318
Car-ventilator	L. W. Canady	619,718	Feb. 21	1701	389	86	1185
Car-ventilator	C. Reimuller	632,205	Aug. 29	4598	1036	88	1687
Car-washing apparatus	C. L. Kline	636,906	Nov. 14	1293	279	89	1210
Car-wheel	T. A. Bainbridge	626,517	June 6	549	127	87	1720
Car-wheel	J. W. Breeding	631,692	Aug. 22	3633	819	88	1491
Car-wheel	F. E. Canda	628,693	July 11	1426	331	88	296
Car-wheel	F. E. Canda	628,694	July 11	1427	331	88	297
Car-wheel	F. Clark	632,337	Sept. 5	235	55	88	1754
Car-wheel	J. M. Phillips	636,173	Oct. 31	4162	955	89	882
Car-wheel	J. M. and R. F. Phillips	624,970	May 16	1875	421	87	1105
Car-wheel	H. F. and G. F. Shaw	634,036	Oct. 3	94	24	89	23
Car-wheel	E. J. Snow	629,969	Aug. 1	453	97	88	813
Car-wheel	C. E. Swan	631,548	Aug. 22	3390	767	88	1443
Car-wheel	B. Turowski and I. Zarski	637,684	Nov. 21	3170	657	89	1631
Car-wheel	J. B. West	634,280	Oct. 3	584	144	89	116
Car-wheel. Automatically-adjustable-roller	J. J. A. Miller	629,011	July 18	1988	463	88	424
Car-wheel. Ball-bearing	F. Myers	630,914	Aug. 15	2215	505	88	1192
Car-wheel. Cushioned	C. H. Cameron	623,883	Apr. 25	3114	717	87	654
Car-wheel. Self-oiling	A. W. Drake	625,024	May 16	1959	439	87	1121
Car wheels. Flask for forming perfect cast and balanced	W. T. Snyder	636,464	Nov. 7	397	88	89	1001
Car-wheels. Ladle for casting	A. J. Fisher	633,991	Oct. 3	17	4	89	6
Car-window dust-guard	H. B. Shutts	634,770	Oct. 10	1468	345	89	308
Car window. Railway-	G. Massey	630,251	Aug. 1	962	211	88	912
Car-windows. Roller-screen for	T. E. Barr	618,824	Feb. 7	12	3	86	805
Cars. Advertising street-annunciator for	P. H. Patriarche	633,608	Sept. 26	2672	623	88	2270
Cars. Appliance for automatically operating pneumatic or electric	B. F. Carpenter	623,944	Apr. 25	3225	744, 745	87	675
Cars. Antifriction-bearing for railway-	J. E. Norwood	639,684	Dec. 19	2768	639	89	2445
Cars. Bellows-fold coupling for vestibule-	E. L. and E. L. Perry, Jr.	619,785	Feb. 21	1829	418	86	1211
Cars. Bucket-cage for mining-	W. Knapp	625,035	May 16	1978	441, 442	87	1125
Cars. Changeable sign for street-	W. I. Larzelere	636,732	Nov. 7	953	205	89	1125
Cars. Controlling mechanism for brakes and sand-distributing apparatus for street-	E. B. W. Reichel	637,829	Nov. 28	3428	717	89	1703
Cars. Convertible handle and guard-bar for street-	J. Weigel	621,004	Mar. 14	885	192	86	1685
Cars. Detachable door for dumping-	C. P. Ludwig	632,315	Sept. 5	198	45	88	1746
Cars. Device for feeding current to electrically-driven	C. F. P. Stendebach	633,165	Sept. 19	1823	428	88	2092
Cars. Double safety-guard for open railway passenger-	F. Steffens	626,349	June 6	247	58	87	1661
Cars. Electric-lighting apparatus for	C. A. Gould	628,658	July 11	1361	317	88	283
Cars. Electric-lighting apparatus for railway-	W. F. Richards	634,542	Oct. 10	1071	256	89	231
Cars. Electric-lighting system for	J. L. Creveling	627,326	June 20	2055	452	87	2054
Cars. Electric-lighting system for	J. L. Creveling	628,650	July 11	1345	313, 314	88	280
Cars. Electric-lighting system for	J. L. Creveling	634,286	Oct. 3	597	147	89	120
Cars. Electrical bell-ringer for street-	F. A. Enz and W. H. Fetter	636,779	Nov. 14	1062	227	89	1163
Cars for elevated railways. Articulated suspension appliance for	W. Feldmann	631,988	Aug. 29	4178	939	88	1604
Cars, locomotives, &c. Fender for	V. Pfaff	619,989	Feb. 21	2186	497, 498	86	1278

Alphabetical list of inventions—Continued.

Invention.	Name.	No.	Date.	Monthly volume. Spec.	Monthly volume. Dr'g.	Official Gazette. Vol.	Official Gazette. Page.
Cars. Means for operating foot-boards or steps of open or side-entering street-	R. Emory	626,892	June 13	1285	281	87	1881
Cars. Means for transmitting power from axles to bodies of	L. T. Mann	633,385	Sept. 19	2252	530, 531	88	2176
Cars. Number-displaying device for caboose-	H. J. Small	621,862	Mar. 28	2458	548, 549	86	2019
Cars or locomotives. Replacing-frog for	B. E. Tilden	632,476	Sept. 5	487	111	88	1803
Cars or vehicles. Controller for electric-motor	S. H. Short	629,398	July 25	2689	627	88	580
Cars or vehicles. Emergency-brake for	G. E. Stanley	630,271	Aug. 1	989	218	88	918
Cars. Portable horse-stall for railway-	J. P. Young	617,623	Jan. 10	1448	330, 331	86	302
Cars. Preventing accidents on drawbridges to electric	S. L. Phillips	631,491	Aug. 22	3277	746	88	1419
Cars. Shoveling-board for grain-	S. J. Taylor	621,180	Mar. 14	1203	263	86	1747
Cars. Sign-board and safety device for brakemen of freight-	P. J. Reid	625,467	May 23	2748	625	87	1294
Cars. System for propelling railway-	R. M. Dixon	638,801	Dec. 12	1156	258	89	2112
Caramels, &c. Machine for cutting	W. S. Foster	629,785	Aug. 1	43	11,12	88	729
Carbid-cartridge	L. S. Buffington	635,296	Oct. 24	2435	567	89	530
Carbid-cartridge	T. G. Turner	637,681	Nov. 21	3165	656	89	1630
Carbid-cartridge shell	D. M. Dorman	634,402	Oct. 3	817	198	89	163
Carbid-furnace	L. K. Böhm	630,966	Aug. 15	2320	528	88	1213
Carbon-brush holder	R. E. Crockett	622,609	Apr. 4	759	176, 177	87	144
Carbon-clamp for electrical purposes	J. F. Bachmann and A. Vogt	619,263	Feb. 14	891	199	86	1002
Carbon-clutch bracket	P. Bleidt	636,621	Nov. 7	703	153	89	1064
Carbon contact	E. Pettet	628,115	July 4	301	71	88	60
Carbon. Electric-arc	D. Bacon	626,661	June 13	803	183	87	1789
Carbon-feeding mechanism	E. P. Hopkins	618,509	Jan. 31	3161	698, 699	86	678
Carbon-sorting machine	C. T. Richmond and M. M. Zellers	623,036	Apr. 11	1531	354, 355	87	312
Carbons for electric lamps. Composition for	A. O. Simonnier	624,552	May 9	1118	------	87	939
Carbonaceous agents for enriching spirits. Producing	H. Hempel	621,338	Mar. 21	1494	------	86	1817
Carbonates of aromatic series. Making	F. Hofmann	636,384	Nov. 7	268	------	89	975
Carbonating apparatus	C. Barus	622,410	Apr. 4	377	86, 87	87	70
Carbonating apparatus	F. D'Orbessan	623,997	May 2	79	17	87	717
Carbonating apparatus	E. E. Murphy	636,162	Oct. 31	4137	948, 949	89	877
Carbonating apparatus	L. Tufts and H. A. Hopkins	639,631	Dec. 19	2657	610	89	2425
Carbonating apparatus	L. Tufts and H. A. Hopkins	639,632	Dec. 19	2660	611	89	2425
Carbonating apparatus	L. Tufts and H. A. Hopkins	639,633	Dec. 19	2662	611	89	2426
Carbonating apparatus	J. Walter	633,057	Sept. 12	1580	368	88	2033
Carbonating-machine	F. W. Zingsem	626,126	May 30	4043	923	87	1559
Carbonator	D. Boyle	628,137	July 4	340	81	88	69
Carbonic esters of cinchona alkaloids and making same.	A. Weller	625,075	May 16	2049	------	87	1137
Carbureter	B. C. J. Anderson	637,062	Nov. 14	1603	346, 347	89	1270
Carbureter	W. J. Anson	639,336	Dec. 19	2118	487	89	2316
Carbureter	G. W. Benedict	622,198	Apr. 4	4	1	87	3
Carbureter	R. D. Bradley	618,002	Jan. 17	2165	482, 483, 484	86	461
Carbureter	R. Brown and J. R. Dixon	625,084	May 16	2064	464	87	1140
Carbureter	F. E. Canda	635,298	Oct. 24	2441	568	89	531
Carbureter	W. E. Cary	638,557	Dec. 5	695	148	89	1998
Carbureter	H. B. Cornish	619,281	Feb. 14	923	209	86	1009
Carbureter	J. E. Doze	639,965	Dec. 26	3287	752	89	2567
Carbureter	W. J. Egan	625,294	May 16	2443	556	87	1210
Carbureter	W. S. Filley	620,646	Mar. 7	195	40	86	1540
Carbureter	J. Grau	629,246	July 18	2402	557	88	502
Carbureter	H. H. Hardy	618,382	Jan. 24	2900	643	86	613
Carbureter	J. Henderson	620,586	Mar. 7	61	12	86	1514
Carbureter	E. R. Inman	633,319	Sept. 19	2130	499	88	2153
Carbureter	E. R. Inman	633,320	Sept. 19	2132	500	88	2153
Carbureter	L. L. Kelly	622,489	Apr. 4	545	128	87	103
Carbureter	C. M. Kemp	622,008	Mar. 28	2743	620	86	2073
Carbureter	C. M. Kemp	622,808	Apr. 11	1119	260	87	232
Carbureter	C. M. Kemp	635,894	Oct. 31	3617	834	89	773
Carbureter	A. G. Lamb	618,108	Jan. 24	2390	533	86	518
Carbureter	C. O. Lange	623,725	Apr. 25	2790	638	87	591
Carbureter	A. M. Lara	623,321	Apr. 18	2084	477	87	436
Carbureter	T. G. Lewis and F. M. Bailey	633,287	Sept. 19	2051	481, 482	88	2137
Carbureter	C. N. Lippitt	620,595	Mar. 7	79	15	86	1518
Carbureter	F. Logan	626,176	May 30	4144	943	87	1579
Carbureter	F. L. Martenette	629,581	July 25	3035	709	88	646
Carbureter	L. W. Ravenèz	620,496	Feb. 28	3068	707	86	1460
Carbureter	D. M. Small	626,193	May 30	4181	950	87	1586
Carbureter	F. E. and F. O. Stanley	632,376	Sept. 5	301	70	88	1766
Carbureter	F. E. and F. O. Stanley	632,377	Sept. 5	308	70, 71	88	1768
Carbureter	W. F. Steele	628,639	July 11	1325	308, 309	88	276
Carbureter	A. I. van Vriesland	631,002	Aug. 15	2377	541	88	1224
Carbureter	H. Wolpert	639,481	Dec. 19	2398	551	89	2371
Carbureter. Explosive-engine	H. E. Casgrain	633,800	Sept. 26	2995	697	88	2336
Carbureting apparatus. Means for regulating level of liquid in	A. I. Van Vriesland	635,210	Oct. 17	2279	531	89	483
Carbureting device for gas or explosive engines	S. A. Ayres	632,509	Sept. 5	541	125, 126	88	1814
Card and envelop. Quotation-	J. E. Hewett	622,852	Apr. 11	1207	281	87	248
Cardboard box	J. E. Thornton	625,858	May 30	3469	787	87	1454
Cardboard from leather stuff. Manufacture of	G. Brigalant	637,074	Nov. 14	1625	351	89	1274
Cardboard-scoring machine	G. W. Jordan	621,965	Mar. 28	2669	600, 601	86	2058

Alphabetical list of inventions—Continued.

Invention.	Name.	No.	Date.	Monthly volume.		Official Gazette.	
				Spec.	Dr'g.	Vol.	Page.
Card. Caricature-	E. M. Levy	624,347	May 2	734	163	87	841
Card-case	P. Hufeland	633,006	Sept. 12	1493	347	88	2016
Card-clothing for fancy-rolls	J. H. Crowther	632,898	Sept. 12	1321	303	88	1982
Card-clothing foundation	E. Ashworth	629,326	July 25	2557	------	88	551
Card-delivering machine	T. B. Tuttle	630,138	Aug. 1	770	166	88	875
Card-flat end clip	C. Mills and R. W. Hunton	628,830	July 11	1661	385	88	345
Card-grinder	L. P. Sherman	625,706	May 23	3159	717	87	1376
Card-grinding apparatus	L. W. Penney	620,353	Feb. 28	2839	648, 649	86	1417
Card-holder	W. F. Moore and E. A. Fargo	638,257	Dec. 5	104	24	89	1886
Card holder and ejector	R. Joy	622,807	Apr. 11	1117	260	87	231
Card holder or backing	J. H. Crossingham	626,459	June 6	448	106	87	1701
Card holder. Playing-	C. Hustedt, Jr	619,960	Feb. 21	2142	485	86	1270
Card. Jacquard or dobby	H. Polican	629,303	July 18	2501	583	88	521
Card lock-rod	D. E. Hunter	628,886	July 11	1755	411	88	362
Card lock-rod	D. E. Hunter	638,017	Nov. 28	3797	798	89	1776
Card or picture mount	G. C. Warner	618,449	Jan. 31	3049	674	86	656
Card ornament	F. I. Walker	626,880	June 13	1262	276	87	1876
Card-punching device. Jacquard-	T. David	631,395	Aug. 22	3101	702	88	1384
Card-punching machine. Jacquard-	J. A. Groebli	627,256	June 20	1912	421, 422, 423	87	2025
Card-punching-machine punch-selector	M. W. Lee	628,481	July 11	996	231, 232	88	212
Card-receiving box	F. D. Belknap	627,380	June 20	2171	477	87	2077
Card. Sample-	A. H. Broadway	626,137	May 30	4071	928	87	1565
Card-setting-machine guide	E. Ashworth	621,988	Mar. 28	2714	613	86	2067
Card-setting mechanism	F. H. Richards	638,275	Dec. 5	138	32, 33, 34	89	1892
Card-shuffling device	F. C. Rollins	629,470	July 25	2819	655	88	606
Card-shuffling machine	J. M. Bowden	636,749	Nov. 14	999	213	89	1151
Cards, &c. Support for	S. Dalsheimer	631,520	Aug. 22	3331	757	88	1431
Cards. System of educational playing	W. J. Holman, Jr	631,766	Aug. 22	3793	845	88	1516
Carding apparatus	W. J. Donigan	617,481	Jan. 10	1186	270	86	250
Carding-engine	G. Andrews and J. Haley	635,634	Oct. 24	3100	711	89	660
Carding-engine	R. W. Eaton	640,159	Dec. 26	3626	833	89	2637
Carding-engine	E. H. Gillett and J. Fogg	638,111	Nov. 28	3977	837	89	1810
Carding-engine	T. R. Marsden	631,022	Aug. 15	2421	549	88	1232
Carding-engine	C. Mills and L. W. Penney	623,094	Apr. 11	1632	376, 377, 378, 379, 380	87	332
Carding-engine alarm apparatus	P. H. Russell	628,493	July 11	1013	236	88	216
Carding-engine coiler-head	H. McDermott	631,319	Aug. 22	2963	670	88	1358
Carding-engine dividing apparatus	A. Lejeune	616,946	Jan. 3	160	36	86	32
Carding-engine doffer-driving mechanism	J. S. Eaton	623,950	Apr. 25	3240	746	87	678
Carding-engine fancy-roller	C. T. Goldberg	635,927	Oct. 31	3670	847	89	783
Carding-engine flat	R. W. Hunton	622,367	Apr. 4	291	67	87	56
Carding-engine-flat stripping mechanism	W. Philipson	624,861	May 9	1678	380	87	1049
Carding-engine-flat stripping motion	J. Edge	618,402	Jan. 31	2968	657	86	642
Carding-engine. Revolving-flat	W. V. Threlfall	620,089	Feb. 21	2366	536	86	1312
Carding-engine. Traveling-flat	R. Taylor, Jr	628,216	July 4	476	114	88	95
Carding-engine. Traveling-flat	R. Taylor, Jr	629,052	July 18	2060	479	88	439
Carding-engines. Apparatus for grinding flats for rotary	C. Mills	623,095	Apr. 11	1643	380	87	335
Carding-engines. Means for securing card-clothing to cylinders of	J. Dodd	633,358	Sept. 19	2200	516	88	2166
Carding-machine	S. Beran	630,479	Aug. 8	1454	325	88	1020
Carding-machine	A. Vinchon	621,183	Mar. 14	1209	264, 265	86	1748
Carding-machine condenser attachment	C. D. Ingraham	632,871	Sept. 12	1252	286	88	1971
Carding-machine rubbing mechanism	G. Barber and J. Cromie	638,162	Nov. 28	4080	860	89	1830
Carding-machine rubbing mechanism	G. Barber and J. Cromie	638,163	Nov. 28	4081	861	89	1830
Carding-machine stop-motion	C. E. Smith	638,943	Dec. 12	1398	319, 320	89	2159
Carline	H. W. Gays	619,952	Feb. 21	2126	481	86	1267
Carousel. Floating	C. and F. Wiemer	621,726	Mar. 21	2195	495	86	1953
Carpenter's gage	S. Dean	638,446	Dec. 5	498	101	89	1962
Carpet	J. Birney	634,797	Oct. 10	1512	355	89	317
Carpet	J. Stevenson	624,123	May 2	332	68	87	764
Carpet-beating machine	P. A. Olcen	636,351	Nov. 7	207	45	89	963
Carpet-cleaner	B. A. Correll	628,768	July 11	1548	358	88	322
Carpet-cleaner	F. H. Good	627,500	June 27	2402	527	87	2137
Carpet-cleaning apparatus	E. E. Hill	628,538	July 11	1108	258	88	234
Carpet fabric	T. B. Dornan	638,410	Dec. 5	429	89	89	1947
Carpet fabric. Ingrain	T. B. Dornan and R. Cuscaden	621,522	Mar. 21	1823	405	86	1879
Carpet fabric. Woven	R. S. and H. Cookson	620,104	Feb. 28	2406	543	86	1333
Carpet-fastener	J. L. Fry	618,223	Jan. 24	2615	578	86	559
Carpet-fastener	L. Kern	620,782	Mar. 7	457	94	86	1591
Carpet-fastener	H. F. Petram and E. Maschek	620,957	Mar. 14	784	172	86	1667
Carpet-fastener	J. F. Van Wickel, Jr	635,211	Oct. 17	2280	531	89	483
Carpet-fastener	W. E. Woozley	637,193	Nov. 14	1871	402	89	1319
Carpet-fastening device	E. D. Berry	632,911	Sept. 12	1344	308	88	1986
Carpet-renovator. Pneumatic	J. S. Thurman	634,042	Oct. 3	101	26	89	24
Carpet-stretcher	W. H. Dexter	639,718	Dec. 26	2831	653	89	2476
Carpet-stretcher	W. F. Grigsby	620,120	Feb. 28	2435	550	86	1339
Carpet-stretcher	E. R. Moser	634,471	Oct. 10	945	225	89	206
Carpet-stretcher	H. C. Peytan	621,502	Mar. 21	1785	397	86	1871
Carpet-stretcher	C. H. Sapper	624,873	May 9	1701	385	87	1054
Carpet-stretcher	E. L. Scribner	630,079	Aug. 1	672	144	88	856
Carpet-stretcher	E. C. Walden	620,065	Feb. 21	2326	528	86	1304
Carpet stretcher and tacker	C. Gosemann	617,569	Jan. 10	1354	305, 306	86	282
Carpet stretcher and tacker	C. P. Knapp	627,428	June 20	2267	500, 501	87	2095

Alphabetical list of inventions—Continued.

Invention.	Name.	No.	Date.	Monthly volume. Spec.	Monthly volume. Dr'g.	Official Gazette. Vol.	Official Gazette. Page.
Carpet-sweeper	W. J. Drew	621,639	Mar. 21	2026	452	86	1918
Carpet-sweeper	C. King	619,580	Feb. 14	1417	326	86	1104
Carpet-sweeper	C. King	626,466	June 6	459	108	87	1703
Carpet-sweeper	C. King	636,002	Oct. 31	3821	878	89	813
Carpet-sweeper	S. J. Reynolds	622,017	Mar. 28	2758	622	86	2076
Carpet-sweeper	J. W. Sykes	617,997	Jan. 17	2159	481	86	459
Carpet-sweeper	A. G. Wilkins	631,837	Aug. 29	3914	875	88	1554
Carpet-sweeper. Pneumatic	G. L. Westman	628,505	July 11	1031	239	88	219
Carriage	E. J. Gavin	621,336	Mar. 21	1493	330	86	1817
Carriage and cradle. Combined baby-	M. Lucak	622,244	Apr. 4	77	18	87	18
Carriage. Automotor-	H. F. Joel	625,772	May 30	3300	749	87	1421
Carriage. Baby-	M. L. Barr	617,800	Jan. 17	1807	404	86	391
Carriage. Baby-	A. J. Horn	629,688	July 25	3225	751	88	683
Carriage. Baby-	M. W. Mahar	622,158	Mar. 28	3017	683	86	2128
Carriage. Baby-	M. and B. H. May	638,972	Dec. 12	1447	330	89	2169
Carriage. Baby-	S. McGaughey	639,425	Dec. 19	2293	530	89	2350
Carriage-body	G. H. Holtzmann	624,937	May 16	1823	409	87	1094
Carriage-brake	J. G. Ebken	619,683	Feb. 14	1615	369	86	1143
Carriage-brake	G. Hänsler	638,925	Dec. 12	1367	312	89	2153
Carriage-brake. Pneumatic	D. P. Sammis	618,294	Jan. 24	2743	608	86	584
Carriage. Child's	T. Ballantine	635,638	Oct. 24	3107	713, 714	89	661
Carriage. Child's	G. R. Chisholm	617,717	Jan. 17	1627	365, 366	86	356
Carriage. Child's	W. Diemer	633,817	Sept. 26	3024	703	88	2342
Carriage. Child's	G. Fischer	623,308	Apr. 18	2059	472	87	431
Carriage. Child's	W. H. Holmes	639,389	Dec. 19	2227	515, 516	89	2338
Carriage Child's	G. F. Perley	638,670	Dec. 5	898	198	89	2040
Carriage. Child's folding-	L. A. Burghardt and W. G. Rogers.	632,671	Sept. 5	856	199	88	1879
Carriage-coupling	D. J. Marston	627,699	June 27	2776	608	87	2210
Carriage-curtain fastener	H. Lester	621,109	Mar. 14	1080	235	86	1722
Carriage-curtain-patch fastener	W. H. and F. Walter	638,778	Dec. 12	1110	249	89	2104
Carriage-curtain stay	G. S. Hopper	631,523	Aug. 22	3334	758	88	1431
Carriage driving mechanism. Motor-	W. E. Twichell	627,282	June 20	1958	431	87	2033
Carriage fan attachment. Baby-	C. K. Dammen and O. Bergquist	636,898	Nov. 14	1273	274	89	1206
Carriage. Folding	L. A. and B. A. Greyer	618,032	Jan. 17	2227	496	86	472
Carriage. Folding	C. S. White	618,528	Jan. 31	3192	705, 706	86	684
Carriage. Folding baby-	J. Anderson	628,295	July 4	654	152	88	126
Carriage. Folding baby-	F. M. Courtney	638,100	Nov. 28	3955	832	89	1805
Carriage. Folding baby-	P. I. Merkoolyeff	632,018	Aug. 29	4231	952, 953	88	1616
Carriage-frame	F. W. and E. Heymann	630,054	Aug. 1	622	136	88	846
Carriage. Motor-	E. Henriquez	636,529	Nov. 7	526	116	89	1027
Carriage. Motor-	F. C. Hirsch	639,237	Dec. 19	1930	444, 445	89	2277
Carriage. Motor-	W. C. Schultze	635,603	Oct. 24	3040	698, 699	89	646
Carriage. Motor-	A. C. Stewart	633,666	Sept. 26	2770	643, 644	88	2290
Carriage. Musical	E. L. Cady	619,543	Feb. 14	1360	313	86	1095
Carriage or vehicle. Automotor	W. J. Brewer	621,483	Mar. 21	1750	390	86	1865
Carriage perch connection	S. R. Bailey	623,123	Apr. 18	1720	398	87	363
Carriage perch connection	S. R. Bailey	623,125	Apr. 18	1723	398	87	363
Carriage-spring	S. R. Bailey	630,162	Aug. 1	813	175	88	883
Carriage stop or brake. Child's	J. E. Osgood	633,767	Sept. 26	2950	684, 685	88	2326
Carriage-top storm-curtain	J. T. Lawless	617,294	Jan. 3	824	192	86	163
Carriage-top support. Folding	J. S. McConnell	621,615	Mar. 21	1982	442	86	1910
Carriage ventilator and heater	F. Burger and H. M. Williams	618,199	Jan. 24	2577	570	86	552
Carriage-washing and automatic water-level-regulating device. Combined	W. H. Rawe	630,740	Aug. 8	1906	430	88	1107
Carriage-windows. Means for holding and raising	C. B. King, Jr	630,716	Aug. 8	1868	422	88	1099
Carriage-wrench	J. B. Calef	621,223	Mar. 14	1285	284	86	1764
Carriages, &c. Combined step and guard for	F. W. Putnam	626,008	May 30	3794	863	87	1516
Carrier: *See* Bicycle parcel-carrier. Cash-carrier. Cash and package carrier. Casket-carrier. Cotton-sack carrier. Egg-carrier. Elevated carrier. Equipment-carrier. Jug-carrier. Luggage-carrier. Medicine-carrier. Package-carrier. Parcel-carrier. Pipe-carrier. Pneumatic carrier. Sheet-carrier. Spool-carrier. Straw-carrier.							
Carrier	C. J. Chadwick	620,694	Mar. 7	288	58	86	1558
Carrier	J. M. Dodge	629,289	July 18	2469	575, 576, 577	88	515
Carrier	I. Pribble	636,554	Nov. 7	568	126	89	1036
Carrier, server, and dish-unshipper	E. W. Fairbanks	630,453	Aug. 8	1405	314	88	1011
Carrier trip-head	J. Ney	636,834	Nov. 14	1149	247	89	1181
Carrying apparatus. Goods-	M. E. Grey	634,888	Oct. 17	1680	396, 397	89	366
Cart	F. Weber	623,643	Apr. 25	2659	608	87	566
Cart	F. C. Weber	635,623	Oct. 24	3080	707	89	656
Cart. Barrel-	H. F. Condon	638,215	Dec. 5	12	4	89	1869
Cart. Child's	I. N. Dann	620,107	Feb. 28	2411	545	86	1334
Cart. Dust-	F. Loos	632,130	Aug. 29	4458	1003	88	1661
Cart. Hand-	E. K Hayes	627,261	June 20	1928	425	87	2027
Cart. Hand-	G. B. Marx	636,051	Oct. 31	3907	897	89	830
Cart or wagon. Dump	J. Prinz	626,721	June 13	921	209	87	1811
Cart or wagon. Dumping	E. A. Parrish	623,819	Apr. 25	2991	685	87	631
Carts, &c. Covering for ash-	T. Hill	633,999	Oct. 3	35	11	89	11

Alphabetical list of inventions—Continued.

Invention.	Name.	No.	Date.	Monthly volume.		Official Gazette.	
				Spec.	Dr'g.	Vol.	Page.
Carts. Spring-board seat for dumping-	W. N. Houghtaling	633,381	Sept. 19	2247	529	88	2175
Carton folding and setting-up machine	W. H. Doble and W. S. Scales	633,953	Sept. 26	3255	760 761	88	2388
Cartridge	J. P. Elliot	625,440	May 23	2708	617	87	1287
Cartridge	W. C. Lynham	631,085	Aug. 15	2545	576	88	1257
Cartridge	F. K. Young	624,146	May 2	385	78	87	774
Cartridge-belt	C. F. Batt	621,763	Mar. 21	2273	512	86	1968
Cartridge-belt	S. N. McClean	629,908	Aug. 1	299	68	88	778
Cartridge-belt	L. Sanders	621,148	Mar. 14	1154	251	86	1737
Cartridge-belt for use in automatic or machine guns	E. Trochain	628,871	July 11	1731	404	88	357
Cartridge-box	F. M. Garland	636,978	Nov. 14	1441	310	89	1238
Cartridge for multiple cannon	L. Masini	634,826	Oct. 10	1559	366	89	326
Cartridge-holders. Construction of	H. S. McKenzie	621,425	Mar. 21	1632	362	86	1843
Cartridge-holding clip	T. C. Johnson	626,068	May 30	3906	887	87	1535
Cartridge implement	C. V. Burch	619,273	Feb. 14	907	205	86	1005
Cartridge implement	S. B. Kitchel	620,330	Feb. 28	2805	640	86	1410
Cartridge-loading machine	J. H. Barlow	629,120	July 18	2192	509	88	465
Cartridge-loading machine	T. P. Flynn	629,029	July 18	2018	470	88	430
Cartridge-loading machine	W. L. Morris	639,080	Dec. 12	1627	374 375 376 377 378	89	2203
Cartridge-loading machine	F. Raymond	629,393	July 25	2680	625	88	578
Cartridge-loading machine	F. Render	622,711	Apr. 11	959	221 222 223	87	202
Cartridge-packing apparatus	G. H. Beatty	633,113	Sept. 19	1726	404	88	2072
Cartridge-reloading tool	W. H. Gripman	637,730	Nov. 21	3243	675	89	1645
Cartridge-reloading tool	E. S. Parmenter	621,941	Mar. 28	2614	589	86	2047
Cartridge-shell cleaner	C. W. Phillips	619,906	Feb. 21	2053	465	86	1253
Cartridge-shell heads. Machine for turning	C. R. Richards	640,029	Dec. 26	3390	777 778	89	2589
Cartridge-shells. Machine for making	W. B. Place	619,787	Feb. 21	1838	419 420	86	1212
Cartridge-shells. Machine for making paper	H. J. Hurd	635,072	Oct. 17	2004	474 475 476 477	89	432
Cartridge-shells. Tool for turning heads of	T. H. Rylands	626,634	June 6	740	170 171	87	1758
Cartridge-testing apparatus	P. Pondorf	639,432	Dec. 19	2311	533	89	2352
Carving device	H. Deptner	634,287	Oct. 3	601	147	89	120
Carving-fork guard and knife-sharpener. Combined	C. Holyland	621,342	Mar. 21	1501	333	86	1818
Case:							
See Bicycle packing-case.							
Bookcase.							
Card-case.							
Convertible case.							
Coin-case.							
Cyclometer-case.							
Display-case.							
Dressing-case.							
Egg-case.							
Egg or fruit case.							
Electric-cell packing-case.							
Exhibition-case.							
Eyeglass-case.							
Eyeglass or spectacle case.							
File-case.							
Filing-case.							
Hinged case.							
Label-case.							
Match-case.							
Medicine-case.							
Memorandum-case.							
Packing-case.							
Paper-case.							
Refrigerator-case.							
Ring-case.							
Sample-case.							
Shipping-case.							
Show-case.							
Syringe-case.							
Thread-case.							
Ticket-case.							
Traveling-case.							
Writing-case.							
Case	A. J. Kearns	626,430	June 6	399	94	87	1691
Case for sacerdotal articles	J. J. Eugster	628,780	July 11	1570	362	88	327
Case or box for matches, &c	B. Rosenband	634,543	Oct. 10	1074	256	89	232
Casein curd. Method of and apparatus for treating	L. Axtell	629,644	July 25	3149	734	88	668
Casein. Producing	W. A. Hall	632,408	Sept. 5	358	------	88	1777
Casein with lithium salts. Composition of	G. Wendt	617,210	Jan. 3	663	------	86	129
Cash and package carrier	E. C. Gipe	623,899	Apr. 25	3148	725 726	87	661
Cash-car	M. W. Sherwood	623,632	Apr. 25	2639	602	87	562
Cash-carrier	C. F. Bodinus	636,315	Nov. 7	150	33	89	951
Cash-carrier	F. W. Gremmels and C. W. Keller	637,245	Nov. 21	1980	424	89	1356
Cash-carrier	E. Silverburg	635,153	Oct. 17	2186	510	89	466
Cash-carrier	M. C. Swezey	629,219	July 18	2358	547	88	494
Cash-carrier apparatus	W. Hanlon	625,883	May 30	3524	800	87	1464
Cash-depository	R. Zinsmayer	622,097	Mar. 28	2890	652	86	2102
Cash-receptacle	C. Hutchinson	622,229	Apr. 4	54	13	87	14
Cash-recorder	A. C. Hough	618,035	Jan. 17	2235	498	86	473
Cash-register	J. P. Cleal	622,445	Apr. 4	440	103	87	82
Cash-register	W. H. Cleasby	617,718	Jan. 17	1629	366	86	356
Cash-register	J. S. Crane	627,224	June 20	1856	406 407	87	2012
Cash-register	G. R. Ellis	628,262	July 4	580	138	88	113
Cash-register	C. J. Fauvel and N. Collins	627,403	June 20	2224	490 491	87	2085
Cash-register	O. A. Gatrell	622,617	Apr. 4	773	179 180	87	147
Cash-register	G. H. Gledhill	634,726	Oct. 10	1403	330 331	89	296
Cash-register	G. W. Hill	618,941	Feb. 7	240	54 55 56	86	851
Cash-register	O. W. Hunsaker	638,929	Dec. 12	1375	313 314	89	2154

Alphabetical list of inventions—Continued.

Invention.	Name.	No.	Date.	Monthly volume.		Official Gazette.	
				Spec.	Dr'g.	Vol.	Page.
Cash-register	A. Latham	619,763	Feb. 21	1774	407, 408	86	1199
Cash-register	A. Latham	619,764	Feb. 21	1777	408	86	1200
Cash-register	A. Latham	635,860	Oct. 31	3538	813, 814	89	757
Cash-register	J. Pallweber	630,922	Aug. 15	2228	508	88	1195
Cash-register	F. Parer	624,856	May 9	1670	378	87	1048
Cash-register	F. J. Petersen and W. C. Eberhardt	639,430	Dec. 19	2300	531, 532	89	2351
Cash-register	J. Sharpe	638,286	Dec. 5	187	40	89	1903
Cash-register	J. W. Whitney	627,032	June 13	1517	331	87	1927
Cash-register	F. Woodbridge	618,491	Jan. 31	3124	691	86	671
Cash register and calendar. Combined	G. S. Webber	623,587	Apr. 25	2571	588	87	551
Cash register and indicator	G. H. Gledhill	624,645	May 9	1276	285	87	969
Cash register and indicator	E. B. Hess	617,485	Jan. 10	1191	271	86	251
Cash register and recorder	J. A. Hoff	633,842	Sept. 26	3064	712, 713, 714	88	2350
Cash register and recorder	J. Pfeifer	628,961	July 18	1899	441, 442	88	407
Cash-register attachment	J. De Leon	631,928	Aug. 29	4067	913	88	1584
Cash-register counting or adding mechanism	G. Schuster	631,231	Aug. 15	2780	630	88	1304
Cash-register or like apparatus	J. Pallweber	618,477	Jan. 31	3090	684	86	664
Cash-register. Pocket	E. C. Akers	619,924	Feb. 21	2078	471	86	1258
Cash-register. Pocket	G. L. Barker	618,320	Jan. 24	2786	618	86	592
Cashier. Mechanical	I. S. Dement and C. F. Bassett	618,932	Feb. 7	220	49, 50, 51	86	847
Cask	F. Schraudner	619,233	Feb. 7	819	180	86	973
Cask. Veneer	G. Sauter	626,248	June 6	55	13	87	1625
Casks. Method of and apparatus for purifying	J. S. Macardle	625,045	May 16	2002	451	87	1129
Casket	R. C. Davis	636,766	Nov. 14	1029	220	89	1157
Casket-carrier	A. Kircher	626,432	June 6	403	95	87	1692
Casket-carrier	A. Kircher	631,574	Aug. 22	3443	778	88	1453
Casket-handle	E. R. Sargent	617,360	Jan. 10	957	220	86	206
Casket-handler for hearses	W. P. Fest	621,051	Mar. 14	981	213, 214	86	1703
Casket head-rest	T. W. Coughlin	628,649	July 11	1344	313	88	280
Casket-lowering apparatus	E. B. Voorhees	618,153	Jan. 24	2488	552, 553	86	536
Casket-lowering device	J. Vail	626,640	June 6	756	173	87	1760
Casket-lowering mechanism	W. F. Pfeiffer	630,070	Aug. 1	659	142	88	854
Casket-pall and embalming-table. Child's combined	J. W. Reavey	622,710	Apr. 11	958	221	87	202
Casket-pedestal	J. Ort	628,633	July 11	1315	306, 307	88	274
Casket-support	D. W. Mumper	638,587	Dec. 5	750	161	89	2010
Caster	C. C. Alden	639,129	Dec. 12	1724	397	89	2222
Caster	J. W. Bateman	632,774	Sept. 12	1077	249	88	1935
Caster	E. O. Berninghaus and B. Kochs	632,166	Aug. 29	4515	1016	88	1672
Caster	T. Byers	637,079	Nov. 14	1633	353	89	1275
Caster	A. Cousen	622,449	Apr. 4	446	104	87	83
Caster	M. Fishel	627,108	June 20	1661	362	87	1974
Caster	J. A. Higgins and J. C. Oneil	630,696	Aug. 8	1838	414	88	1093
Caster	G. E. Neuberth	631,579	Aug. 22	3454	780	88	1455
Caster	S. H. Raymond	627,012	June 13	1495	327	87	1923
Caster. Adjustable	J. H. Chase	634,803	Oct. 10	1519	357	89	319
Caster. Ball-	E. P. H. Carraway	636,757	Nov. 14	1011	216	89	1153
Caster. Ball-	F. H. Corduan	626,055	May 30	3886	883	87	1531
Caster. Ball-	R. M. Grove	621,605	Mar. 21	1965	439	86	1906
Caster. Ball-	J. Guinan	635,680	Oct. 24	3181	732	89	675
Caster. Ball-	B. A. Manley	631,804	Aug. 29	3865	862	88	1544
Caster. Furniture-	A. B. Diss	629,188	July 18	2308	535	88	486
Caster. Furniture-	B. P. Kenyon	636,148	Oct. 31	4115	942	89	872
Caster-roller	N. Stock	638,996	Dec. 12	1510	346	89	2180
Caster-socket	F. C. Mason	617,467	Jan. 10	1161	265	86	244
Caster-socket	B. H. Noelting	626,439	June 6	415	98	87	1693
Caster-socket holder	L. B. Denton	633,755	Sept. 26	2930	681	88	2322
Casters, &c. Wheel for	G. E. Neuberth	631,580	Aug. 22	3456	781	88	1455
Casting aluminium alloys	W. A. McAdams	634,904	Oct. 17	1703	------	89	371
Casting aluminium alloys	W. A. McAdams	635,053	Oct. 17	1973	------	89	426
Casting aluminium alloys	W. A. McAdams	635,054	Oct. 17	1973	------	89	426
Casting aluminium alloys	W. A. McAdams. (Reissue)	11,788	Nov. 14	1932	------	89	1331
Casting aluminium alloys	W. A. McAdams. (Reissue)	11,789	Nov. 14	1933	------	89	1331
Casting aluminium alloys	W. A. McAdams. (Reissue)	11,790	Nov. 14	1933	------	89	1331
Casting and apparatus therefor. Art of	J. K. Griffith	618,867	Feb. 7	94	19, 20	86	823
Casting and conveying apparatus	E. A. Uehling and J. W. Miller	629,480	July 25	2851	662, 663, 664	88	611
Casting and heating ingots. Apparatus for	S. T. and C. H. Wellman	627,835	June 27	3014	658, 659	87	2259
Casting anodes. Mold for	J. T. Morrow	631,471	Aug. 22	3239	734	88	1412
Casting apparatus	H. Aiken	632,331	Sept. 5	226	53	88	1751
Casting apparatus	R. W. Davies	620,020	Feb. 21	2248	510	86	1289
Casting apparatus	W. J. Patterson and A. M. Acklin	633,151	Sept. 19	1795	422, 423	88	2086
Casting apparatus. Blast-furnace	F. E. Bachman	636,885	Nov. 14	1250	269	89	1201
Casting apparatus. Metal-	A. M. Acklin and W. J. Patterson	633,179	Sept. 19	1845	434	88	2097
Casting apparatus. Metal-	L. C. B. Holmboe	620,240	Feb. 28	2639	601, 602	86	1378
Casting apparatus. Metal-	W. E. May	633,326	Sept. 19	2146	502, 503	88	2156
Casting apparatus. Metal-	E. A. Uehling	632,031	Aug. 29	4260	958	88	1621
Casting apparatus. Metal-	A. L. Walker	623,053	Apr. 11	1554	359, 360	87	317
Casting apparatus. Pig-metal-	J. M. Hartman	629,903	Aug. 1	288	65, 66	88	777
Casting armor-plates and mold therefor	W. Beardmore and H. V. Holden	619,123	Feb. 7	620	132	86	932

Alphabetical list of inventions—Continued.

Invention.	Name.	No.	Date.	Monthly volume.		Official Gazette.	
				Spec.	Dr'g.	Vol.	Page.
Casting chilled rolls. Method of and mold for	E. E. Kaye	635,255	Oct. 17	2351	549	89	497
Casting crucible-steel. Apparatus for	C. Capper	630,285	Aug. 1	1018	224	88	923
Casting gear-wheels. Chill-mold for	J. H. Miller	619,084	Feb. 7	541	114	86	916
Casting-machine	E. Ramsay	620,494	Feb. 28	3061	700 701	86	1459
Casting-machines. Metal-pot mechanism for	B. Nadall and M. Barr	629,459	July 25	2800	651	88	602
Casting metal pipes, &c. Collapsible core-bar for use in	F. Chambers	630,181	Aug. 1	844	181	88	889
Casting metallic wheels. Apparatus for	C. Bush	628,446	July 11	931	216 217	88	198
Casting pipe. Core for	A. Schiefer	635,900	Oct. 31	3625	835	89	775
Casting pipe. Socket-iron for	G. P. Bassett, Jr	629,538	July 25	2961	690	88	632
Casting plant	M. M. Suppes	618,447	Jan. 31	3046	674	86	655
Casting rolls. Mold for	G. E. Thackray	638,774	Dec. 12	1106	248	89	2103
Casting waste-traps. Mold for	P. D. Hay	617,396	Jan. 10	1039	236	86	221
Casting waste-traps. Mold for	P. D. Hay	630,884	Aug. 15	2157	490	88	1181
Castings. Apparatus for immersing	J. A. Dyblie	628,241	July 4	521	126 127	88	104
Castings. Machine for making sand molds for	H. E. Pridmore	628,034	July 4	134	28	88	28
Castings. Making metallic	W. D. Allen	639,130	Dec. 12	1724	398	89	2222
Castings malleable. Rendering iron	J. C. Bradley	637,369	Nov. 21	2219	------	89	1404
Castings. Molding material for making metallic	A. G. Lundin	632,579	Sept. 5	677	------	88	1840
Catalytic material	M. Schroeder	636,925	Nov. 14	1346	------	89	1219
Catamenial garment	G. R. Everson	623,658	Apr. 25	2682	615	87	570
Catamenial sack	A. L. Gray	626,159	May 30	4114	937	87	1573
Catapult for throwing projectiles	C. F. McGlashan	629,044	July 18	2043	476 477	88	435
Catch	G. A. Brachhausen	621,318	Mar. 21	1465	324	86	1811
Catching and holding tool	A. Lungren	625,178	May 16	2232	507	87	1171
Catheter. Electric	R. P. Johnson	623,022	Apr. 11	1513	350	87	309
Cattle-guard	E. L. Arnold	628,428	July 4	891	209	88	171
Cattle-guard	R. C. Cummings	630,329	Aug. 8	1125	246	88	959
Cattle-guard	J. W. Dodd	626,598	June 6	680	157	87	1747
Cattle-guard	J. W. Ross	629,305	July 18	2503	583	88	521
Cattle-guard	R. V. Wallace	627,552	June 27	2500	549	87	2157
Cattle-guard gate	G. Bergstrom	627,470	June 27	2348	517	87	2127
Cattle-guard gate. Automatic	C. W. Hills	630,608	Aug. 8	1687	380	88	1065
Cattle-tie	A. Bynell	634,129	Oct. 3	279	68	89	58
Cattle-trough	S. A. Gaede	625,390	May 23	2617	595	87	1270
Cavalry equipment	F. and K. Hieke	636,430	Nov. 7	343	77	89	990
Ceiling and side-wall plate. Metal	G. H. Ennis	628,579	July 11	1188	278	88	249
Ceiling-tinting device	L. Farber	625,969	May 30	3676	835	87	1493
Ceiling. Water-tight ventilating	J. J. Coady	627,719	June 27	2813	616	87	2219
Ceilings and floors. Construction of	C. Pötsch	637,943	Nov. 28	3643	764	89	1746
Ceilings. Metallic centerpiece for	R. Oehring	632,584	Sept. 5	682	158	88	1842
Ceilings. Steel clip or hanger for	M. F. X. Foley	629,674	July 25	3199	745	88	678
Cell-case machine	G. W. Swift, Jr	622,403	Apr. 4	344	79 80 81	87	64
Cell. Dry	M. E. Fuld	627,917	June 27	3167	694	87	2292
Cellular board. Manufacture of	W. G. Chapin	618,376	Jan. 24	2886	640 641	86	610
Celluloid, &c. Manufacturing articles covered with	C. F. Church	635,917	Oct. 31	3651	842	89	780
Cellulose esters. Making	C. O. Weber and C. F. Cross	632,605	Sept. 5	718	------	88	1848
Cellulose into a dense material. Transforming fibrous	H. Brunswig	622,325	Apr. 4	226	------	87	43
Cellulose-separator	R. Dietrich	617,983	Jan. 17	2133	477	86	455
Cellulose tetracetate. Making	C. O. Weber and C. F. Cross	627,031	June 13	1516	------	87	1927
Cement	C. F., A. L., and A. W. Lawton	637,211	Nov. 14	1911	------	89	1327
Cement	C. Myers	624,521	May 9	1063	------	87	928
Cement	C. Myers	624,522	May 9	1064	------	87	928
Cement	H. H. Pierce	622,387	Apr. 4	319	------	87	60
Cement	J. C. Sellars	633,618	Sept. 26	2695	------	88	2275
Cement conduits or pipes. Manufacture of	F. H. Paine and J. L. Given	626,088	May 30	3948	897	87	1543
Cement, lime, &c., kiln	F. Ruppel	621,463	Mar. 21	1716	381	86	1859
Cement. Making casein	T. A. Haynes	619,040	Feb. 7	463	------	86	900
Cement. Manufacture of	J. Steiger	627,884	June 27	3106	------	87	2276
Cement or concrete work. Mold for	O. P. Barnett	628,382	July 4	808	187 188	88	155
Cement, plaster, &c. Composition for	C. Straub	636,866	Nov. 14	1212	------	89	1194
Cement, plaster, &c. Mixing	A. Sackett	624,687	May 9	1348	301	87	984
Cement to fabrics. Machine for applying	W. Sellers and J. S. Bancroft	637,674	Nov. 21	3148	652	89	1627
Cement. Treating blast-furnace slag for	A. D. Elbers	617,241	Jan. 3	719	------	86	141
Cementing apparatus	A. B. McCoy	626,185	May 30	4157	946	87	1582
Center	A. H. Bromley, Jr	631,105	Aug. 15	2575	582	88	1262
Centerboard for boats. Portable	C. S. Hamilton	620,311	Feb. 28	2769	633 634	86	1404
Center-indicator	C. P. Fay	617,501	Jan. 10	1211	276	86	256
Centering-support	T. M. Vinton	628,191	July 4	434	103	88	88
Centrifugal bowl	W. J. Ashworth and T. Stevinson	618,196	Jan. 24	2573	569	86	552
Centrifugal cooler	W. Müller	630,727	Aug. 8	1883	425	88	1102
Centrifugal machine	D. Alfvén	632,616	Sept. 5	730	168	88	1851
Centrifugal machine	D. Alfvén	632,617	Sept. 5	733	169	88	1852
Centrifugal machine	J. H. Darby	618,814	Jan. 31	3697	827	86	783
Centrifugal machine	F. L. Depew	626,597	June 6	678	156 157	87	1746
Centrifugal machine	J. G. Evans and W. Goldsworthy	636,780	Nov. 14	1064	227	89	1164
Centrifugal machine	T. C. Gooch	618,659	Jan. 31	3429	764	86	730
Centrifugal machine	T. Henderson	617,158	Jan. 3	574	135	86	112
Centrifugal machine	L. Hirt	637,258	Nov. 21	1999	428	89	1359
Centrifugal machine	T. L. Patterson	630,736	Aug. 8	1897	428	88	1105
Centrifugal machine	L. Rissmuller	622,712	Apr. 11	961	223	87	202
Centrifugal machine	A. T. Welch	636,016	Oct. 31	3844	884	89	818
Centrifugal-machine driving means	W. F. Braun	627,665	June 27	2719	596	87	2200
Centrifugal machines. Tool for assembling and removing parts of	E. G. N. Salenius	620,366	Feb. 28	2865	655 656	86	1422

Alphabetical list of inventions—Continued.

Invention.	Name.	No.	Date.	Monthly volume. Spec.	Monthly volume. Dr'g.	Official Gazette. Vol.	Official Gazette. Page.
Centrifugal separator	J. Tribe	625,369	May 23	2585	588	87	1264
Centrifugal-separator liner	J. D. G. Ohlhaver	635,579	Oct. 24	2998	688	89	639
Cereals in form. Machine for reducing and baking	H. D. Perky	625,696	May 23	3135	712	87	1371
Chafe-iron	L. F. Fales	617,483	Jan. 10	1188	270	86	251
Chafing-dish	G. E. Savage	625,702	May 23	3152	716	87	1375
Chain	E. D. Fake	630,978	Aug. 15	2345	534	88	1217
Chain	E. G. Camelinat and P. Tailland-ier.	628,754	July 11	1525	353	88	318
Chain	G. G. Howe	623,959	Apr. 25	3255	749	87	681
Chain	G. G. Howe	627,694	June 27	2764	606	87	2209
Chain	J. Macphail	635,789	Oct. 31	3402	785	89	732
Chain	J. Macphail	635,790	Oct. 31	3403	785	89	732
Chain adjustment	M. F. Taintor	639,460	Dec. 19	2360	543	89	2364
Chain and chain-wheel. Drive-	A. C. Schaefer	623,431	Apr. 18	2276	521	87	475
Chain-cover and gear-casing. Revolving	F. Myers	618,945	Feb. 7	272	58	86	863
Chain. Detachable	H. M. Caldwell	617,716	Jan. 17	1626	365	86	356
Chain. Drive-	E. G. Hoffmann	624,492	May 9	1010	227	87	917
Chain. Drive-	T. Holt	628,939	July 18	1865	432	88	400
Chain. Drive-	B. J. Macdonald	629,515	July 25	2928	681	88	626
Chain. Drive-	D. J. Sheldrick	633,738	Sept. 26	2901	674	88	2316
Chain. Drive-	O. E. Winger	621,194	Mar. 14	1226	269	86	1752
Chain-hook for logging-chains	J. Poquette	620,177	Feb. 28	2520	573	86	1357
Chain-inclosure	M. G. Read	633,534	Sept. 19	2497	587, 588	88	2223
Chain-link. Detachable or open	R. F. Bartel	627,892	June 27	3118	683	87	2278
Chain-links. Device for imparting uniform dimensions to	D. Carroll	620,886	Mar. 14	649	142	86	1642
Chain-making machine	H. B. Morris	627,870	June 27	3076	673, 674	87	2271
Chain-manufacturing apparatus	A. Masion and J. Dethier	636,157	Oct. 31	4131	946	89	875
Chain. Sprocket-	R. M. Keating	619,315	Feb. 14	982	221	86	1022
Chain-sprocket	C. E. Whitney	637,056	Nov. 14	1586	342	89	1267
Chain. Watch-	S. O. Bigney	633,092	Sept. 12	1673	394	88	2052
Chain. Wire	F. W. Smith, Jr	628,189	July 4	432	103	88	87
Chains. Cutting-link for mortise-cutting	E. S. Higgins	619,888	Feb. 21	2026	460	86	1248
Chains. Machine for making curb-	W. B. Cartledge	628,439	July 4	910	212, 213	88	175
Chains or belts. Device for tightening endless	E. A. Johnston	630,833	Aug. 8	2068	467	88	1141
Chair: *See* Adjustable chair. Barber's chair. Blacking-chair. Camp-chair. Combination-chair. Convertible chair. Dental chair. Dental operating-chair. Detachable chair. Disappearing chair. Easy-chair. Folding chair. Hammock-chair. Hydraulic chair. Nursery-chair. Reclining-chair. Revolving chair. Revolving and reclining chair. Rocking-chair. Rocking or lounging chair. Rotary and folding chair. Self-leveling chair. Swinging chair. Tilting-chair. Wheel-chair. Wheeled chair. Window-chair.							
Chair	D. J. Bigelow	632,832	Sept. 12	1191	272	88	1959
Chair	D. J. Bigelow	633,948	Sept. 26	3244	757	88	2386
Chair	D. J. Bigelow	635,644	Oct. 24	3115	716	89	663
Chair	H. W. Bolens	632,775	Sept. 12	1078	249	88	1936
Chair	H. W. Bolens	639,012	Dec. 12	1530	350	89	2184
Chair	W. O. and E. K. Campbell	626,139	May 30	4073	929	87	1565
Chair	W. Duffner	618,337	Jan. 24	2816	625	86	597
Chair	C. F. Farrington	628,306	July 4	673	157, 158	88	130
Chair	G. Hunzinger	624,812	May 9	1585	360	87	1032
Chair	S. W. Johnson	633,087	Sept. 12	1625	378	88	2043
Chair	W. B. McAllister	637,968	Nov. 28	3687	775	89	1754
Chair	S. N. McCloud	622,062	Mar. 28	2830	638	86	2090
Chair	A. H. Pinnock	631,176	Aug. 15	2696	610	88	1286
Chair	T. W. Wigg	618,309	Jan. 24	2771	614	86	589
Chair and bed. Combined	A. Nilson	617,348	Jan. 10	939	217	86	203
Chair and cane. Combined	E. M. Kutz and A. S. Kelchner	628,584	July 11	1193	279	88	250
Chair fan attachment. Rocking-	J. T. Cowan	622,123	Mar. 28	2940	667	86	2112
Chair foot-rest	J. Healy	636,725	Nov. 7	907	201	89	1108
Chair head-rest	T. G. and S. Welch	638,534	Dec. 5	658	137	89	1992
Chair-leg fastener	W. H. Sleeth	639,781	Dec. 26	2953	680	89	2500
Chair or stool iron	F. L. Morgan	627,516	June 27	2427	534	87	2142
Chair-seat	J. H. Coffman	623,985	May 2	56	12	87	712
Chair-seat. Spring	M. L. Rison	637,667	Nov. 21	3129	649	89	1622
Chair-supporting device	E. P. Ray	620,078	Feb. 21	2347	532	86	1308
Chair with automatically-changing seat	F. Beil	636,745	Nov. 14	992	212	89	1149
Chairs. Attachment for barbers' or surgical	W. T. Pinckney	638,645	Dec. 5	861	187	89	2032
Chairs, &c. Back or seat for	L. H. McKee	618,181	Jan. 24	2552	564	86	547
Chairs. Ball-bearing for opera or other	L. D. Petre	622,861	Apr. 11	1219	284	87	250
Chairs, cradles, &c. Automatic fan attachment for rocking-	E. Griffitt	633,001	Sept. 12	1485	345	88	2014
Chalice-holder	C. Forbes	623,468	Apr. 18	2337	536	87	488
Chalice-holder	C. Forbes	624,005	May 2	97	20	87	721
Chalker. Line-	J. J. Gavin	627,057	June 13	1567	342	87	1936
Chandelier	H. J. Hewitt	626,907	June 13	1310	288	87	1886
Chandelier. Combined gas and vapor burning	A. Kitson	632,652	Sept. 5	810	188	88	1868
Chandelier or bracket. Electric and combined electric and gas	W. H. Lau	621,104	Mar. 14	1070	233	86	1721
Chandelier. Piano-	P. Anderson	618,765	Jan. 31	3606	805	86	765

Alphabetical list of inventions—Continued.

Invention.	Name.	No.	Date.	Monthly volume. Spec.	Monthly volume. Dr'g.	Official Gazette. Vol.	Official Gazette. Page.
Chandeliers. Vertically-adjustable burner-supporting attachment for	A. R. Markel	625,452	May 23	2730	621	87	1291
Change-maker	M. McAneny	621,124	Mar. 14	1107	241, 242	86	1727
Change-maker	P. P. McMenamin	632,138	Aug. 29	4471	1006	88	1664
Change maker and indicator	J. Pfeifer	619,786	Feb. 21	1830	418, 419	86	1211
Change-tray	M. Eichholz	622,999	Apr. 11	1465	338	87	298
Channel-flap-laying and bottom-cleaning machine	J. B. Hadaway	633,836	Sept. 26	3057	710	88	2349
Channeling comminutor	G. E. Surgi	624,400	May 2	832	187, 188	87	860
Channeling device	E. E. Winkley and F. L. Alley	622,310	Apr. 4	197	44	87	37
Channeling, feather-edging, and rounding machines. Mechanism for	W. E. Fischer	618,564	Jan. 31	3257	723	86	696
Channeling-machine	C L. Eaton	637,926	Nov. 28	3613	757, 758	89	1741
Channeling-machine	J. Keats and W. S. Clark	635,551	Oct. 24	2950	674, 675	89	630
Channeling-machine	A. F. Littlefield	623,325	Apr. 18	2091	480	87	438
Channeling-tool. Hand	E. E. Winkley and F. L. Alley	622,309	Apr. 4.	196	44	87	37
Chapelet, chain-pump, or similar apparatus	H. F. M. Lemaire	629,107	July 18	2169	503, 504	88	461
Charcoal point. Creosoted	E. R. Tait	637,303	Nov. 21	2089		89	1377
Charging-machine	D. H. Lentz	639,745	Dec. 26	2883	664	89	2487
Chart. Adjustable garment-drafting	F. A. Atwell	628,296	July 4	655	152, 153	88	127
Chart for drafting garment-patterns	M. Tucek	622,092	Mar. 28	2881	649, 650	86	2101
Chart-form	A. H. Rice	623,561	Apr. 25	2516	577	87	541
Chart. Genealogical	R. H. Chapman	627,718	June 27	2812	616	87	2218
Chart-holder	B. F. Balmer	618,767	Jan. 31	3608	806	86	765
Check-holder. Conductor's magnetic	J. Flinner	628,932	July 18	1855	430	88	398
Check-hook	F. F. Conner	627,818	June 27	2989	653	87	2254
Check-hook	J. A. Lowe	633,765	Sept. 26	2949	684	88	2326
Check-marker	F. E. Housh	632,266	Sept. 5	106	23	88	1728
Check mechanism. Time-	J. J. Stockall, Jr	639,110	Dec. 12	1688	390	89	2216
Check-perforating apparatus	J. D. Baumann	631,266	Aug. 15	2865	647	88	1321
Check-protector	F. Hachmann	621,767	Mar. 21	2280	513	86	1969
Check-receptacle and cash-drawer. Combined	A. R. Miranda	617,760	Jan. 17	1709	384	86	371
Checkrein fastener. Overdraw-	J. Mealey	628,277	July 4	612	144	88	118
Checkrein-hook	A. T. Moore	626,288	June 6	125	32	87	1637
Checkrein-hook	M. J. O'Sullivan	621,500	Mar. 21	1783	397	86	1871
Checkrein-hook	J. L. Simpson	636,927	Nov. 14	1351	288	89	1219
Checkrein hook or fastener	J. Mealey	627,005	June 13	1482	325	87	1920
Check-row wire	J. W. Parker	628,959	July 18	1897	440	88	406
Check-row-wire machine. Automatic	T. L. Regester	638,988	Dec. 12	1483	340, 341, 342	89	2176
Check-row-wire machine. Automatic	T. L. Regester	638,989	Dec. 12	1492	342, 343	89	2177
Check-rower	J. W. Bettendorf	635,838	Oct. 31	3498	803, 804	89	749
Check-rower supporting-frame	J. W. Bettendorf	635,839	Oct. 31	3500	804	89	750
Check strap or holder. Baggage-	J. H. Wheelock	626,198	May 30	4190	952	87	1588
Checking and auditing earnings of passenger-trains. Art of and means for	O. L. Miles	633,603	Sept. 26	2663	621, 622	88	2269
Checking and registering accounts. Means for	W. N. Simpson	626,637	June 6	751	173	87	1759
Checking and unchecking attachment	H. E. Twomley	620,382	Feb. 28	2890	662	86	1427
Checking apparatus. Sales-	L. G. Whitney	621,592	Mar. 21	1942	434	86	1902
Checking or unchecking device	L. E. Fournier and S. E. Winder	626,323	June 6	199	49	87	1651
Checking or unchecking device	T. A. Killman and A. E. Potter	639,736	Dec. 26	2867	660	89	2483
Checking or unchecking device	R. J. Wylie	635,367	Oct. 24	2568	597	89	556
Cheese-curd aerator	C. J. Moore	634,761	Oct. 10	1455	342	89	306
Cheese-cutter	A. J. Bartlett	622,196	Apr. 4	2	1	87	3
Cheese-cutter	E. S. Burt	638,377	Dec. 5	369	77	89	1936
Cheese-cutter	F. H. Reeve	627,708	June 27	2795	612	87	2215
Cheese-cutting device	A. L. Nichols	619,905	Feb. 21	2051	465	86	1253
Cheese-molding machine	J. B. Pecht	636,839	Nov. 14	1155	250, 251	89	1182
Chenille	E. Engstfeld	621,641	Mar. 21	2035	454	86	1921
Chest: *See* Flour-chest. Metal chest.							
Chest. Mess-	G. A. Brackett	617,713	Jan. 17	1622	364	86	355
Chiffonnier and bath-tub. Combined	T. H. Schottenberg	623,836	Apr. 25	3032	697	87	639
Child's barrier	J. Graham	625,926	May 30	3600	818	87	1479
Chill. Contractile	J. N. Barr	619,926	Feb. 21	2081	471, 472, 473	86	1258
Chime	T. F. Smith	632,029	Aug. 29	4257	957	88	1621
Chimney	W. J. Glover	625,756	May 30	3265	740	87	1415
Chimney-cap. Self-igniting	A. Martini	625,344	May 23	2545	578	87	1256
Chimney-cowl	E. Martin	620,472	Feb. 28	3029	693	86	1453
Chimney-cowl	P. A. C. Moore	631,652	Aug. 22	3568	804	88	1478
Chimney-flue	J. F. Hill	638,713	Dec. 12	1002	225	89	2081
Chimney-stack draft device	J. G. Thomas	629,019	July 18	2602	466	88	427
Chimney-top	C. E. Burress	638,172	Nov. 28	4092	863	89	1832
Chimney-top	W. Faulstich	627,775	June 27	2909	636	87	2238
Chimney top or ventilator	J. A. Hodel	629,253	July 18	2418	560	88	505
Chip-rack	S. A. Cohen	617,478	Jan. 10	1180	269	86	249
Chip-separator	H. Richards and V. Drewsen	631,093	Aug. 15	2560	578	88	1259
Chisel. Mortising-	M. Lamont	627,647	June 27	2688	589	87	2194
Chisel. Turner's hand-	D. Glardon-Jaquet and L. Berger	622,461	Apr. 4	480	112	87	89
Chlorates by electrolysis. Manufacturing	T. Parker	633,272	Sept. 19	2027	477	88	2132
Chlorin. Obtaining	A. Vogt and A. R. Scott	623,447	Apr. 18	2303	527	87	481

Alphabetical list of inventions—Continued.

Invention.	Name.	No.	Date.	Monthly volume.		Official Gazette.	
				Spec.	Dr'g.	Vol.	Page.
Chlorin, zinc, &c., from mixed ores. Method of and apparatus for producing	F. M. Lyte	618,575	Jan. 31	3274	726	86	699
Chocolate apparatus	J. Werner	630,957	Aug. 15	2295	523	88	1207
Chocolate-drop-dipping machine	P. D. Panoulias	618,234	Jan. 24	2638	582 583 584	86	563
Chocolate drops, &c. Machine for dipping	P. Panoulias	632,535	Sept. 5	601	137 138 139 140	88	1827
Choke-straps and breeching-straps. Connector for	J. C. Weaver	631,731	Aug. 22	3721	835	88	1506
Chopper: *See* Cotton-chopper. Food-chopper. Cotton or beet chopper.							
Choppers. Case for food-	L. T. Snow. (Reissue)	11,771	Sept. 5	915	213	88	1893
Chopping-block	W. Linkenbach	631,894	Aug. 29	4007	897	88	1572
Chopping-knife	W. S. Jenks	634,892	Oct. 17	1685	398	89	367
Chopping-knife	G. W. Lawbaugh	627,429	June 20	2259	501	87	2095
Chopping machine. Food-	E. Steinhorst and J. Seislmeir	639,307	Dec. 19	2057	473	89	2303
Chopping or mincing knife	J. W. Lohr	631,021	Aug. 15	2420	549	88	1232
Christmas-tree stand	A. A. Wagner	626,514	June 6	544	126	87	1719
Chromates from tan liquor. Recovering	H. J. Krebs	620,935	Mar. 14	739	------	86	1658
Chronometer-escapement	A. V. Chardon	628,758	July 11	1533	355	88	319
Chuck	H. Casler	638,905	Dec. 12	1333	308	89	2146
Chuck	Z. T. Furbish	632,560	Sept. 5	651	151	88	1835
Chuck	E. Marcille	617,113	Jan. 3	487	116 117	86	96
Chuck	W. Scott	639,944	Dec. 26	3235	742	89	2557
Chuck. Automatic	O. F. Garvey	635,243	Oct. 17	2331	544	89	494
Chuck. Automatic spindle-	E. M. Couch	629,713	July 25	3263	761	88	690
Chuck-bone holder	J. W. Markey	636,824	Nov. 14	1129	242	89	1177
Chuck. Drill-	J. W. Albert	635,458	Oct. 24	2790	637	89	600
Chuck. Drill-	J. W. Carleton	627,480	June 27	2364	521	87	2130
Chuck. Drill-	H. M. Reynolds	620,612	Mar. 7	115	23	86	1524
Chuck. Drill-	S. Thompson	621,624	Mar. 21	1995	445	86	1912
Chuck. Emery-wheel	G. Hart	639,035	Dec. 12	1557	358	89	2190
Chuck for press-plungers	C. Gabriel	619,557	Feb. 14	1380	318	86	1099
Chuck for V-shank drills. Drill-	C. O. Muehlberg	626,841	June 13	1161	258	87	1856
Chuck. Lathe-	H. Austin	627,815	June 27	2985	652	87	2253
Chuck. Lathe-	J. C. Potter and J. Johnston	635,976	Oct 31	3763	868 869	89	801
Chuck. Nailing-machine	H. W. Morgan	621,692	Mar. 21	2135	475	86	1942
Churn	A. R. Anderson	633,744	Sept. 26	2911	675 676	88	2318
Churn	L. A. Aspinwall	636,612	Nov. 7	680	148	89	1059
Churn	J. E. Benjamin	630,768	Aug. 8	1949	439 440	88	1115
Churn	J. B. Christie	629,238	July 18	2384	553 554	88	499
Churn	J. E. Clark	634,847	Oct. 10	1603	376	89	335
Churn	O. J. Cole	636,636	Nov. 7	732	160	89	1069
Churn	W. W. Cooper	639,022	Dec. 12	1543	354	89	2187
Churn	W. H. Cox	627,805	June 27	2963	648 649	87	2249
Churn	B. F. Crowder	637,956	Nov. 28	3668	770	89	1750
Churn	B. Dallin	635,239	Oct. 17	2326	543	89	493
Churn	N. Decker	623,076	Apr. 11	1597	368	87	325
Churn	W. M. and W. P. Drake	629,781	Aug. 1	38	10	88	728
Churn	B. F. Emery	619,739	Feb. 21	1742	397	86	1193
Churn	H. Felt	639,159	Dec. 12	1767	408	89	2231
Churn	J. H. Folliott	617,502	Jan. 10	1213	276	86	256
Churn	F. V. Foulke	634,553	Oct. 10	1093	259	89	235
Churn	W. F. Fribley	634,408	Oct. 3	827	200	89	165
Churn	T. A. Galt	638,504	Dec. 5	608	126	89	1983
Churn	G. W. Holt, Jr	623,668	Apr. 25	2700	619	87	574
Churn	I. Key	631,723	Aug. 22	3712	833	88	1504
Churn	F. C. Kirkpatrick	639,061	Dec. 12	1598	366	89	2197
Churn	F. A. Mabee	621,687	Mar. 21	2128	474	86	1940
Churn	A. J. Mathes	630,297	Aug. 1	1054	229	88	930
Churn	J. W. Maxey	631,171	Aug. 15	2688	608	88	1284
Churn	W. H. McCormick	629,806	Aug. 1	79	20	88	736
Churn	F. B. McKenney	629,588	July 25	3051	711	88	649
Churn	J. T. Morse	625,119	May 16	2139	485 486	87	1153
Churn	J. B. Neuendorff	637,014	Nov. 14	1517	326	89	1253
Churn	G. A. Norcross	633,100	Sept. 12	1686	396	88	2055
Churn	J. B. O'Donnell	636,282	Nov. 7	104	23	89	943
Churn	M. O'Marrow	626,623	June 6	714	165	87	1753
Churn	J. H. Quigley	637,944	Nov. 28	3644	764	89	1746
Churn	V. J. Robertson	638,598	Dec. 5	774	168	89	2014
Churn	H. G. Schatz	629,274	July 18	2447	567	88	511
Churn	A. J. Slonecker	626,874	June 13	1243	274	87	1873
Churn	S. Smith	637,425	Nov. 21	2321	500	89	1425
Churn	J. W. Strabala	627,150	June 20	1730	380	87	1988
Churn	N. J. Tubbs	629,479	July 25	2849	662	88	610
Churn	O. F. Vaughan	622,985	Apr. 11	1436	331	87	294
Churn	W. E. Vernon	619,811	Feb. 21	1881	429	86	1220
Churn	N. Willis	625,624	May 23	3024	689	87	1350
Churn	T. W. Wood	623,059	Apr. 11	1566	361	87	319
Churn	W. Zonker	639,330	Dec. 19	2101	483	89	2312
Churn and butter-worker. Combined	H. Feldmeier	622,918	Apr. 11	1325	305	87	270
Churn and butter-worker. Combined	H. L. Ferris	619,291	Feb. 14	942	213 214	86	1013
Churn and butter-worker. Combined	F. E. Gilmore	638,234	Dec. 5	51	12,13	89	1877

Alphabetical list of inventions—Continued.

Invention.	Name.	No.	Date.	Monthly volume. Spec.	Monthly volume. Dr'g.	Official Gazette. Vol.	Official Gazette. Page.
Churn and butter-worker. Combined	W. J. Gould	633,379	Sept. 19	2241	528	88	2174
Churn and butter-worker. Combined	E. F. Moenke	634,534	Oct. 10	1054	250, 251	89	228
Churn and butter-worker. Combined	W. E. Penn	628,988	July 18	1946	453	88	416
Churn and butter-worker. Combined	D. T. Sharples	638,363	Dec. 5	346	73	89	1932
Churn and butter-worker. Combined	D. E. Virtue and M. Deeg	634,074	Oct. 3	153	40	89	35
Churn and ice-cream freezer. Convertible	J. Everhard	627,492	June 27	2381	524	87	2134
Churn-dasher	J. W. Click	617,461	Jan. 10	1151	263	86	242
Churn-dasher	E. R. Franklin	637,452	Nov. 21	2366	511	89	1433
Churn-dasher	W. H. Swan	634,377	Oct. 3	776	185	89	154
Churn gate-valve	T. J. Howe, D. J. Ames, and H. N. Labare.	634,730	Oct. 10	1409	332	89	298
Churn lid and dasher	M. J. Evans	618,339	Jan. 24	2818	625	86	598
Churn-motor	W. L. Morris	622,652	Apr. 4	854	196	87	162
Churn-power	J. T. Coleman	639,712	Dec. 26	2821	651	89	2474
Churns, washing-machines, &c. Operating mechanism for	L. H. Nutting	630,398	Aug. 8	1283	281	88	989
Chute	E. L. Messler	630,623	Aug. 8	1725	386	88	1071
Chute. Bin-	G. H. Hutchinson	639,051	Dec. 12	1578	361	89	2194
Chute. Cattle-	Q. Bruton	620,099	Feb. 28	2386	540, 541	86	1331
Chutes, &c. Machine for regulating flow in	C. H. Sutton	624,126	May 2	335	69	87	764
Cider-mill	F. Wayland	637,188	Nov. 14	1858	400	89	1316
Cider-press	B. J. Fowler	631,567	Aug. 22	3430	775	88	1450
Cider-press	J. H. Hoover	623,280	Apr. 18	2008	460, 461, 462	87	421
Cider-press	J. H. Jennings	623,281	Apr. 18	2012	462	87	422
Cigar	B. Fanta	634,104	Oct. 3	225	57	89	49
Cigar	A. Pollak and P. F. Teiser	621,975	Mar. 28	2698	608	86	2063
Cigar-ash receiver	P. L. Cole	634,746	Oct. 10	1437	338	89	302
Cigar-band	A. E. Morris	617,295	Jan. 3	826	192	86	163
Cigar-band cutter	S. J. Ballard	630,164	Aug. 1	816	176	88	884
Cigar-box	A. Frank	636,513	Nov. 7	493	110	89	1021
Cigar-box	W. Tribble	622,932	Apr. 11	1350	310	87	276
Cigar-branding machine	F. J. Hagen	624,326	May 2	704	156	87	835
Cigar-branding machine	N. Weiss and F. J. Hagen	628,151	July 4	364	86, 87	88	74
Cigar-bunch machine	J. Dela Mar	635,920	Oct. 31	3659	844, 845	89	781
Cigar-bunch-making machine	E. Pisko	630,520	Aug. 8	1528	342	88	1033
Cigar-bunch-molding machine	A. Grouvelle and E. Belot	631,299	Aug. 22	2923	662, 663	88	1348
Cigar-bunch molding or pressing apparatus	A. Woolf	626,954	June 13	1386	305	87	1900
Cigar-bunch-rolling machine	R. M. Russell	628,677	July 11	1389	324	88	288
Cicar-bunch-rolling machine	R. M. Russell	631,331	Aug. 22	2985	676, 677	88	1362
Cigar-bunch-rolling-machine header	C. A. Baker	639,190	Dec. 12	1844	424	89	2245
Cigar-bunch-rolling-machine header	R. M. Russell	631,333	Aug. 22	2989	677, 678	88	1363
Cigar-bunch-rolling machines. Pasting mechanism for	R. M. Russell	631,332	Aug. 22	2988	677	88	1363
Cigar-bunching machine	J. Reuse	636,696	Nov. 7	843	187, 188	89	1093
Cigar-bunching-machine filler-feeding device	A. Du Brul	636,961	Nov. 14	1406	300, 301	89	1231
Cigar-bundling device	T. M. Wilson	633,633	Sept. 26	2720	633	88	2279
Cigar-cutter and advertising device. Combined	A. A. Root	629,612	July 25	3099	721, 722	88	658
Cigar cutter and lighter	E. A. Johnston	632,416	Sept. 5	369	84	88	1779
Cigar-cutter and match-safe	A. R. Fossum	617,732	Jan. 17	1655	372	86	362
Cigar cutter and stamper. Combined	J. L. Thompson	629,828	Aug. 1	122	29	88	744
Cigar-fillers. Machine for molding	A. Grouvelle and E. Belot	636,660	Nov. 7	781	170, 171, 172	89	1080
Cigar-header	J. Bunn	636,194	Oct. 31	4202	965	89	890
Cigar-holder	H. H. Coote	626,968	June 13	1406	310	87	1905
Cigar-lighter	A. C. Gruhlke	628,982	July 18	1934	451	88	414
Cigar-lighter. Electric	F. H. Harriman	635,930	Oct. 31	3673	848	89	783
Cigar-lighter. Electric	W. F. Kessler	623,480	Apr. 18	2359	543	87	492
Cigar-lighter. Electric	W. F. Kessler	624,218	May 2	497	106	87	795
Cigar-machine	T. E. Carpenter	639,663	Dec. 19	2720	625	89	2437
Cigar-machine	H. C. Greve	631,297	Aug. 22	2920	661	88	1348
Cigar-machine	B. H. Snavely and T. H. Keller	617,366	Jan. 10	969	222, 223, 224, 225	86	208
Cigar-making machine	J. W. Dunn	633,579	Sept. 26	2604	609, 610, 611, 612	88	2260
Cigar-making machine	F. Haehnel	636,981	Nov. 14	1446	311, 312	89	1239
Cigar-making machine	C. J. Lacostc	623,407	Apr. 18	2235	512	87	467
Cigar-making machine	J. Lacoste	623,406	Apr. 18	2231	511	87	466
Cigar-making machine	A. Marengo	625,047	May 16	2006	451, 452	87	1130
Cigar-packer	J. H. Snyder	623,634	Apr. 25	2641	603	87	563
Cigar-pocket	H. E. Shedd	633,394	Sept. 19	2271	535	88	2180
Cigar-rolling machine	R. M. Russell	631,330	Aug. 22	2982	675	88	1361
Cigar-rolling-machine cutting device	C. B. Schultz	634,481	Oct. 10	962	230, 231	89	210
Cigar-rolling-machine wrapping device	C. B. Schultz	639,777	Dec. 26	2949	678, 679	89	2500
Cigar-tip cutter	A. Fornander	630,534	Aug. 8	1560	348	88	1040
Cigar-tip cutter	W. Schott	630,119	Aug. 1	733	158	88	868

Alphabetical list of inventions—Continued.

Invention.	Name.	No.	Date.	Monthly volume.		Official Gazette.	
				Spec.	Dr'g.	Vol.	Page.
Cigar-tip cutter	E. Walker	621,185	Mar. 14	1213	265	86	1749
Cigar-tip cutter and advertising device. Combined	A. H. Lester	629,378	July 25	2651	616	88	571
Cigar-vender. Coin-operated	L. J. McGhie	627,702	June 27	2781	609	87	2211
Cigar-vending apparatus	O. W. Fisher	628,656	July 11	1356	316, 317	88	282
Cigar-vending machine. Coin-operated	G. Wilhelm	632,798	Sept. 12	1126	259	88	1946
Cigar-wrapper-cutting machine	P. E. Shirk	633,162	Sept. 19	1818	427	88	2091
Cigar-wrapper forming and rolling board and table. Pneumatic	I. Lewis	635,937	Oct. 31	3684	851	89	785
Cigar wrappers and binders. Machine for cutting out	J. W. Dunn	633,580	Sept. 26	2618	612, 613	88	2261
Cigar-wrapping machine	F. R. Keyes	631,309	Aug. 22	2948	666, 667	88	1354
Cigars. Coin-controlled machine for selling	J. V. Hoeye	628,938	July 18	1862	431, 432	88	399
Cigarette	I. Voron	636,088	Oct. 31	4015	918	89	851
Cigarette-box	D. J. Campbell	621,792	Mar. 28	2327	523	86	1993
Cigarette-box	M. M. Marcuse	629,263	July 18	2432	563	88	508
Cigarette, cigar, or tobacco box	G. M. Williams	618,215	Jan. 24	2602	576	86	556
Cigarette-cutting machine	R. Legg	627,462	June 20	2329	513	87	2106
Cigarette-former	J. H. Bock	626,265	June 6	78	19	87	1630
Cigarette-machine	J. F. Brehm	636,625	Nov. 7	711	155, 156, 157	89	1066
Cigarette-machine	J. F. Brehm	638,212	Dec. 5	9	3	89	1868
Cigarette-machine	M. Kirshner	621,349	Mar. 21	1512	336, 337	86	1820
Cigarette-machine	F. E. Zschernig	632,933	Sept. 12	1377	318, 319	88	1993
Cigarette-machine. Pocket	W. L. Gravely	622,142	Mar. 28	2986	674	86	2122
Cigarette-machine. Pocket	M. Keen	635,018	Oct. 17	1900	452	89	411
Cigarette-making device	A. E. Buckingham	638,904	Dec. 12	1332	303	89	2146
Cigarette-making device	J. B. Popenhagen	633,038	Sept. 12	1554	361	88	2027
Cigarette-making device	E. I. Root	638,887	Dec. 12	1302	296	89	2140
Cigarette-making machine	E. T. Gilliland	639,677	Dec. 19	2748	631, 632, 633, 634, 635, 636	89	2442
Cigarette-making machine	W. G. Pedersen, L. Adler, and P. N. Holst.	622,163	Mar. 28	3027	685	86	2131
Cigarette-making machine	P. C. Petersen	630,103	Aug. 1	712	153	88	864
Cigarette-making machine. Continuous	J. H. Venners	630,786	Aug. 8	1981	448	88	1123
Cigarette-mouthpieces. Machine for inserting	J. S. Beeman	633,946	Sept. 26	3240	756	88	2385
Cigarette-packet. Match-provided	F. L. Cook	619,866	Feb. 21	1984	451	86	1240
Cigarette-wrapper	C. M. Richmond	637,419	Nov. 21	2312	499	89	1423
Cigarettes. Machine for making all-tobacco	J. S. Detrick	620,892	Mar. 14	661	144, 145	86	1645
Cigarettes. Machine for making all-tobacco	A. Schneider	620,976	Mar. 14	829	182	86	1675
Circuit-breaker	H. E. Andersson	622,657	Apr. 11	872	200	87	185
Circuit-breaker	H. P. Davis	622,885	Apr. 11	1273	294	87	260
Circuit-breaker	A. H. Engstrom	636,030	Oct. 31	3866	888, 889	89	822
Circuit-breaker	P. R. Goldey	617,503	Jan. 10	1215	276	86	253
Circuit-breaker	T. J. Johnston	620,930	Mar. 14	730	161	86	1656
Circuit-breaker	D. L. Moore, Jr	637,474	Nov. 21	2403	521	89	1441
Circuit-breaker	G. Wright	633,773	Sept. 26	2960	687	88	2329
Circuit breaker and closer	A. T. Hill	618,876	Feb. 7	108	23	86	825
Circuit-breaker. Automatic	C. M. Clark	628,762	July 11	1539	356	88	320
Circuit-breaker. Automatic	E. M. Hewlett	630,539	Aug. 8	1569	350	88	1042
Circuit-breaker. Automatic	E. F. Winfield	640,062	Dec. 26	3455	793	89	2602
Circuit-breaker. Automatic	G. Wright and C. Aalborg	633,772	Sept. 26	2958	687	88	2328
Circuit-breaker. Automatic magnetic	P. R. Goldey	627,997	July 4	75	14	88	16
Circuit-breaker. Automatic magnetic	W. M. Scott	619,091	Feb. 7	555	117	86	919
Circuit-breaker. Automatic magnetic	W. M. Scott	624,895	May 9	1736	392	87	1060
Circuit-breaker. Automatic magnetic	W. M. Scott	629,397	July 25	2687	626	88	579
Circuit-breaker. Automatic magnetic	W. M. Scott	636,458	Nov. 7	381	85	89	998
Circuit-breaker for controllers	W. H. Conrad	632,516	Sept. 5	562	129	88	1818
Circuit-breaker. High-tension	H. P. Davis and G. Wright	629,664	July 25	3175	740	88	674
Circuit-breaker or line-opener	F. C. Robertson	639,688	Dec. 19	2775	641	89	2447
Circuit-breaker. Rotary	H. Boas	625,921	May 30	3591	815	87	1477
Circuit breakers. Electric system for automatically governing polyphase-	A. H. Engstrom	636,028	Oct. 31	3863	887	89	821
Circuit breaking device for polyphase currents. Automatic	A. H. Engstrom	636,029	Oct. 31	3864	887, 888	89	821
Circuit-closer	J. D. Garlock	617,287	Jan. 3	810	189	86	160
Circuit-closer. Automatic	H. F. Blackwell, Jr	618,773	Jan. 31	3620	808	86	768
Circuit closer. Magneto	J. E. Fuller	617,858	Jan. 17	1910	428	86	411
Circuit-closer. Section	F. W. Prokov	628,036	July 4	137	28, 29	88	29
Circuit closing and interrupting device	F. Kuhlo and C. Ecker	638,020	Nov. 28	3802	799	89	1777
Circuit-closure. Automatic	G. A. Wall	624,272	May 2	601	130	87	813
Circuit-controller	A. Lungen	632,357	Sept. 5	266	62	88	1760
Circuit-controlling device	J. Heinze, Jr	635,319	Oct. 24	2473	575	89	537
Circuit-interrupters. Cooling-jacket for vacuum	D. M. Moore	627,346	June 20	2091	462	87	2060
Cistern	W. J. Slack	629,277	July 18	2453	569	88	512
Cistern-cleaner	H. F. Mueller	632,468	Sept. 5	469	106	88	1800
Cistern. Filtering-	F. A. Tulloh and W. H. Archer	627,157	June 20	1744	383	87	1990
Cistern or arch pattern	T. W. and L. B. Faus	622,134	Mar. 28	2973	672	86	2119
Cithern	J. Bernolak	627,221	June 20	1852	405	87	2012
Cithern, case, and table. Combined	J. Blumenberg	621,020	Mar. 14	916	199	86	1691
Cithern. Guitar-	F. Petermann	622,822	Apr. 11	1144	265	87	236
Citherns. Device for facilitating playing	F. Idinger	638,248	Dec. 5	86	20	89	1883
Clam-dredge	O. L. Davis	625,543	May 23	2884	656	87	1322

Alphabetical list of inventions—Continued.

Invention.	Name.	No.	Date.	Monthly volume. Spec.	Monthly volume. Dr'g.	Official Gazette. Vol.	Official Gazette. Page.
Clamp:							
See Barrel-clamp. Handle-bar clamp.							
Beam-clamp. Jointing-clamp.							
Bell-clamp. Pipe-clamp.							
Belt-clamp. Pipe repair-clamp.							
Book-holding clamp. Pole or column clamp.							
Broom-head clamp. Rail-clamp.							
Cabinet-frame clamp. Rope-clamp.							
Carbon-clamp. Saddle-post clamp.							
Cloth-clamp. Saw-clamp.							
Colter-clamp. Seat-clamp.							
Corner-clamp. Seat-post clamp.							
Cultivator-shovel clamp. Self-locking clamp.							
Dental matrix-clamp. Spring-clamp.							
Floor-clamp. Telescopic clamp.							
Gear-cutter clamp. Textile-clamp.							
Hack-clamp. Tooth-clamp.							
Vehicle-clamp.							
Vine-clamp.							
Wagon-box clamp.							
Clamp	A. S. Brown	625,017	May 16	1944	436	87	1118
Clamp	F. J. Cronin	619,869	Feb. 21	1992	452, 453	86	1242
Clamp	H. Kruis and R. Gallée	621,257	Mar. 14	1336	297	86	1773
Clamp	W. S. Ramseaur, Jr	620,495	Feb. 28	3066	701	86	1460
Clamp	W. H. Sheeley	628,860	July 11	1709	399	88	353
Clamp for pipes, shafts, &c	C. B. Albree	630,641	Aug. 8	1750	392	88	1076
Clamp for saddle-posts, &c	J. H. Bullard	618,639	Jan. 31	3385	753	86	720
Clamp or connector	J. F. Gilliland	625,668	May 23	3095	704	87	1364
Clamping device. String-	H. B. Waterbury	631,058	Aug. 15	2494	564	88	1247
Clarinet	G. L. Penzel and E. Müller	623,422	Apr. 18	2263	518	87	473
Clasp:							
See Belt-clasp. Holdback-clasp.							
Burial-apparatus clasp. Shirt-band clasp.							
Collar-clasp. Shoe-clasp.							
Corset-clasp. Skirt-clasp.							
Garment-clasp. Trace-clasp.							
Trousers-clasp.							
Clasp	H. G. Arnold	627,742	June 27	2854	624	87	2227
Clasp	J. F. Atwood	617,944	Jan. 17	2070	464	86	444
Clasp	J. F. Atwood	617,945	Jan. 17	2072	464	86	444
Clasp	B. G. Clark	630,034	Aug. 1	584	127	88	838
Clasp	M. T. Goldsmith	635,768	Oct. 31	3356	776	89	722
Clasp	A. Mayer	633,697	Sept. 26	2833	659	88	2303
Clasp	W. B. Page	637,972	Nov. 28	3692	776	89	1755
Clasp	M. J. Post	636,287	Nov. 7	112	24	89	945
Clasp	T. Sanders	631,754	Aug. 22	3759	843	88	1513
Clasp	C. H. Weston	632,483	Sept. 5	494	113	88	1805
Classifying lists of names. Means for	T. C. Massey	630,906	Aug. 15	2201	501	88	1190
Claw-bar	J. P. Turner	632,290	Sept. 5	159	36	88	1739
Clay-cutting machine	A. Bonnot	635,741	Oct. 31	3308	763, 764	89	713
Clay-cutting machine	H. B. Camp	626,887	June 13	1278	279, 280	87	1879
Clay for manufacturing pottery, &c. Preparing	C. Breitschwerth	621,212	Mar. 14	1255	277	86	1758
Clay or gravel washing machine	W. B. Horr and C. H. Gibbons	636,995	Nov. 14	1485	319	89	1247
Clay-screener	E. B. and H. A. Rader	633,486	Sept. 19	2420	569	88	2209
Cleaner:							
See Bicycle-cleaner. Fruit-cleaner.							
Bicycle-chain cleaner. Grain-cleaner.							
Knife or fork cleaner.							
Boiler-cleaner. Pen-cleaner.							
Boiler-flue cleaner. Railway-track cleaner.							
Boiler-tube cleaner. Seed-cleaner.							
Boot-cleaner. Slate-cleaner.							
Brush-cleaner. Stovepipe-cleaner.							
Carpet-cleaner. Street-cleaner.							
Cistern-cleaner. Tobacco-pipe cleaner.							
Comb-cleaner. Track-cleaner.							
Cotton-cleaner. Trolley-wire cleaner.							
Dish-cleaner. Tube-cleaner.							
Flue-cleaner. Window-cleaner.							
Fork-cleaner.							
Cleaning and polishing composition	A. S. Baldwin	631,553	Aug. 22	3400	------	88	1445
Cleaning and polishing machine	M. Olson	636,352	Nov. 7	209	46	89	963
Cleaning device	M. Nasberg	639,759	Dec. 26	2912	671	89	2492
Cleansing apparatus	W. A. Schmidt	631,180	Aug. 15	2699	611	88	1287
Cleat for securing halyards, &c	F. Hawes	626,230	June 6	26	6	87	1620
Cleat. Supporting-	J. W. Atlee	626,359	June 6	278	63	87	1667
Clevis	C. W. Black	630,169	Aug. 1	825	178	88	886
Clevis	W. L. Bogle	633,334	Sept. 19	2158	505	88	2159
Clevis	I. Griffith	620,914	Mar. 14	702	154	86	1651
Clevis	J. Schmidly	631,336	Aug. 22	2993	679	88	1364
Clevis	J. C. Wood	636,608	Nov. 7	669	147	89	1057
Clevis for regulating plow-furrows	J. H. Nelson	616,955	Jan. 3	171	39	86	34
Clevis. Plow-	W. Clark	639,524	Dec. 19	2459	568	89	2384
Clevis. Plow-	S. D. Poole	629,113	July 18	2181	506	88	463
Clevis. Plow-	B. F. Russell	624,548	May 9	1114	251	87	937
Clevis. Singletree-	G. Thorsen	617,264	Jan. 3	760	178	86	150
Clevis. Whiffletree-	W. H. Wells	634,926	Oct. 17	1738	412	89	378
Climber	C. H. Cole	620,741	Mar. 7	377	77	86	1575

Alphabetical list of inventions—Continued.

Invention.	Name.	No.	Date.	Monthly volume. Spec.	Monthly volume. Dr'g.	Official Gazette. Vol.	Official Gazette. Page.
Clip: *See* Bicycle saddle-clip. Bicycle toe-clip. Bottle-clip. Cartridge-holding clip. Label-clip. Mat-holding clip. Paper-clip. Saddle-clip. Singletree-clip. Tag-holding clip. Toe and heel clip.							
Clip or binder	U. Dudley	622,610	Apr. 4	761	177	87	145
Clip or fastener	A. G. Bowen	627,959	June 27	3237	710	87	2306
Clip or fastener	E. T. Oppal	637,479	Nov. 21	2414	524	89	1443
Clipper	E. S. Hotchkiss	621,673	Mar. 21	2099	469	86	1934
Clipper	E. S. Hotchkiss	621,674	Mar. 21	2103	469	86	1935
Clipper attachment. Barber's hair-	G. M. Watson	621,439	Mar. 21	1659	367	86	1848
Clipper. Hair-	A. M. Sims	620,617	Mar. 7	124	25	86	1526
Clipper. Mechanical	W. P. Freeman	621,560	Mar. 21	1897	424	86	1893
Clipping and grooming machine. Horse	C. W. Potter	621,703	Mar. 21	2150	479	86	1944
Clipping hair from skins of fur-bearing animals. Machine for	P. Young	626,473	June 6	473	110, 111	87	1705
Clipping horses, shearing sheep, &c. Machine for	W. W. and A. T. Barton	624,736	May 9	1434	323	87	1002
Clock	G. W. Adams	633,257	Sept. 19	2003	470, 471	88	2128
Clock	A. M. Lane	637,876	Nov. 28	3530	739	89	1724
Clock. Alarm-	J. H. Bryans	627,901	June 27	3141	687	87	2285
Clock. Alarm-	L. E. Favre	639,966	Dec. 26	3289	752	89	2568
Clock. Alarm-	A. C. Reichel	617,356	Jan. 10	954	219	86	205
Clock bell. Alarm-	W. E. Porter	617,184	Jan. 3	614	144	86	120
Clock-dial	A. C. Howard	631,466	Aug. 22	3223	732, 733	88	1409
Clock-dial. Electric illuminated	R. T. Crane, Jr	618,646	Jan. 31	3400	757	86	724
Clock. Electric	H. E. Andersson	638,160	Nov. 28	4070	858, 859	89	1827
Clock. Electric	R. Bürk	630,178	Aug. 1	839	180	88	888
Clock. Electric	J. Butcher	620,864	Mar. 7	610	133, 134	86	1623
Clock. Electric	J. Butcher	639,019	Dec. 12	1539	353	89	2186
Clock. Electric	F. I. Getty	637,454	Nov. 21	2368	512, 513	89	1434
Clock. Electric	W. W. Hastings	618,670	Jan. 31	3446	769	86	733
Clock. Electric	A. F. Poole	631,511	Aug. 22	3317	753, 754	88	1427
Clock. Electric alarm-	J. Goldenberg, N. Komow, and L. Gutterman.	631,631	Aug. 22	3536	796, 797	88	1472
Clock. Globe	G. Jeager	637,871	Nov. 28	3519	736	89	1721
Clock lighting attachment. Alarm-	C. A. Robertson	329,609	July 25	3089	719	88	657
Clock. Program-	H. F. Jordan	637,341	Nov. 21	2172	467	89	1394
Clock. Program-	E. H. Schild	628,678	July 11	1391	324	88	289
Clock. Program alarm-	J. L. Hall	637,387	Nov. 21	2254	485	89	1411
Clock. Repeating	J. J. Fifield	618,406	Jan. 31	2980	660	86	644
Clock. Repeating alarm-	M. C. Jensen	634,353	Oct. 3	736	176	89	147
Clock. Repeating alarm-	A. Junghans	618,176	Jan. 24	2543	562	86	545
Clock. Secondary electric	J. O. Lyman	619,771	Feb. 21	1793	411	86	1203
Clock. Secondary electric	J. J. Stockall, Sr	637,179	Nov. 14	1842	394	89	1313
Clock-setting mechanism	A. M. Lane	639,587	Dec. 19	2577	592	89	2408
Clock. Striking-	A. M. Lane	639,586	Dec. 19	2575	591	89	2407
Clock striking mechanism	J. Aumund	621,482	Mar. 21	1749	389	86	1865
Clock striking mechanism	H. W. J. Rosin	639,438	Dec. 19	2322	535, 536	89	2355
Clock system. Electric-	F. Hope-Jones and G. B. Bowell	628,325	July 4	717	166	88	138
Clock. Watchman's	A. E. Waggoner	624,413	May 2	852	192	87	864
Clock winding-indicator	J. R. Andrews	618,217	Jan. 24	2604	576	86	557
Clock winding-indicator	S. G. Button	622,667	Apr. 11	888	204	87	188
Clock winding-indicator	A. G. Jacobs	623,158	Apr. 18	1795	411	87	378
Clock winding-indicator	J. Torker	625,218	May 16	2295	522	87	1183
Clock winding-indicator	A. Tucker	639,630	Dec. 19	2656	609	89	2424
Clocks. Device for adjusting the beat of pendulum	J. H. Newell	638,745	Dec. 12	1059	237	89	2093
Clocks or watches. Regulator for hair-springs of	O. Johanson	639,578	Dec. 19	2565	589	89	2406
Clod-crusher	A. J. Aucoin	633,750	Sept. 26	2924	679	88	2321
Clod-crusher	J. Dieter	618,400	Jan. 31	2964	656, 657	86	642
Clod-crusher	P. F. Glassbrenner	632,259	Sept. 5	92	20	88	1725
Clod-crusher, leveler, and cultivator. Combined	R. Peet	623,179	Apr. 18	1828	418, 419	87	384
Cloisonné-ware. Ornamental	T. Pfister	639,862	Dec. 26	3095	711	89	2528
Cloisonné-work	A. Navarein. (Reissue)	11,712	Jan. 24	2935	649	86	622
Closet: *See* Sanitary closet. Water-closet.							
Closet	W. H. Burnett	622,205	Apr. 4	12	3	87	5
Closet	C. H. Lawrence	639,589	Dec. 19	2580	592	89	2408
Closet-repairer	P. Mueller	620,484	Feb. 28	3047	697	86	1456
Closet-seats. Attachment for raising or lowering	F. Burger and H. M. Williams	621,790	Mar. 28	2325	523	86	1992
Closet ventilating and flushing apparatus	W. S. Brickell	629,709	July 25	3258	760	88	689
Closets. Overflow, ventilating, and discharging fittings for	A. O'Brien	620,352	Feb. 28	2838	648	86	1416
Cloth and apparatus therefor. Marking	J. Marsden	627,779	June 27	2915	637	87	2239
Cloth-clamp for textile machinery	A. W. Butterworth	629,741	July 25	3320	775	88	701
Cloth-clamp for textile machinery	H. W. Butterworth	629,491	July 25	2869	667	88	614
Cloth-cutter	L. E. Hacherelle	636,724	Nov. 7	905	201	89	1108
Cloth-cutter	P. Howe	637,613	Nov. 21	3032	624	89	1603
Cloth-cutter	C. A. Jackson	636,998	Nov. 14	1489	320	89	1248
Cloth-cutter	M. D. Kitchen	633,321	Sept. 19	2134	500, 501	88	2154
Cloth-cutters, &c. Take-up mechanism for	P. Howe	637,614	Nov. 21	3034	625	89	1603
Cloth-cutting machine	W. Tharandt	624,704	May 9	1382	309	87	990
Cloth-doubling machine	J. Edmunds	618,379	Jan. 24	2895	641, 642	86	612
Cloth-drying apparatus	J. S. Johnston	625,169	May 16	2217	502	87	1168

Alphabetical list of inventions—Continued.

Invention.	Name.	No.	Date.	Monthly volume.		Official Gazette.	
				Spec.	Dr'g.	Vol.	Page.
Cloth-finishing press. Rotary steam	M. Campbell	621,028	Mar. 14	943	205, 206	86	1696
Cloth into predetermined lengths. Machine for cutting	C. H. Crowell	630,863	Aug. 15	2123	481, 482	88	1174
Cloth-margins. Machine for shearing	G. Josephy	621,304	Mar. 14	1426	315	86	1790
Cloth. Pressing	G. H. Nussey and W. B. Leachman	633,388	Sept. 19	2259	532	88	2177
Cloth-pressing machine	D. Gessner	628,242	July 4	524	128	88	104
Cloth-pressing machines. Bed-plate for rotary	D. Gessner	632,837	Sept. 12	1198	273	88	1961
Cloth pressing and shrinking apparatus	C. H. Behnisch	623,648	Apr. 25	2666	611	87	568
Cloth-shearing machine	M. La Fountain, Jr	627,342	June 20	2085	460	87	2059
Cloth-shearing-machine cloth-rest	W. F. Amback and L. C. Hollingworth.	634,602	Oct. 10	1175	279	89	251
Cloth-shearing-machine cloth-rest	A. Brown	630,969	Aug. 15	2324	529, 530	88	1214
Cloth-shearing-machine rest	W. F. Amback and L. C. Hollingworth.	634,603	Oct. 10	1176	279	89	251
Cloth-sponging attachment	L. A. Thieme	622,566	Apr. 4	687	159	87	130
Cloth-steamer	D. Gessner	633,238	Sept. 19	1966	461	88	2121
Cloth-stretching machine	A. Ashworth	639,492	Dec. 19	2411	456	89	2374
Cloth-tentering machines. Driving mechanism for chains of	R. P. Winsor	638,306	Dec. 5	227	47	89	1910
Cloth-winding bolt-frame. Skeleton	J. C. Murphy	625,937	May 30	3613	821	87	1481
Clothes-drier	J. H. Beardsworth	616,880	Jan. 3	16	4	86	6
Clothes-drier	J. T. and B. A. Best	632,629	Sept. 5	755	173	88	1856
Clothes-drier	H. C. Evered	636,510	Nov. 7	490	109	89	1020
Clothes-drier	H. Gardner	620,905	Mar. 14	687	150	86	1648
Clothes-drier	F. S. Grant	632,999	Sept. 12	1480	344	88	2014
Clothes-drier	B. Kippels	635,553	Oct. 24	2953	675	89	630
Clothes-drier	J. D. Morrissey	619,902	Feb. 21	2048	464	86	1253
Clothes-drier	W. E. Nelson	618,183	Jan. 24	2555	565	86	548
Clothes-drier	F. Overton and C. A. McCally	625,595	May 23	2971	675	87	1339
Clothes-drier	J. J. Pelton	628,211	July 4	471	112	88	94
Clothes-drier	L. S. Roberts	636,067	Oct. 31	3973	908	89	843
Clothes-drier	C. S. Solomon	634,222	Oct. 3	455	116	89	94
Clothes-drier	W. W. St. John	622,982	Apr. 11	1434	330	87	293
Clothes-hook	G. W. Turner	633,742	Sept. 26	2909	675	88	2318
Clothes-line	L. Wirtz	633,678	Sept. 26	2799	651	88	2296
Clothes-line and clothes-pin holder. Combined	S. Burkman	634,519	Oct. 10	1026	245	89	222
Clothes-line fastener	G. A. Weber	639,638	Dec. 19	2672	613	89	2428
Clothes-line fastener and holder	E. R. Jones	637,392	Nov. 21	2262	487	89	1413
Clothes-line. Pinless	J. R. Bolton	632,889	Sept. 12	1309	300	88	1979
Clothes-line prop	W. F. Briggs	628,902	July 11	1793	418	88	369
Clothes-line pulley	S. H. M. Seib	635,604	Oct. 24	3043	699	89	647
Clothes-line pulley	F. Wright	627,563	June 27	2519	554	87	2161
Clothes-line reel	N. Burr	629,984	Aug. 1	473	102	88	816
Clothes-line reel	H. Huebner	622,855	Apr. 11	1210	281	87	249
Clothes-line support	W. Mullen	629,804	Aug. 1	76	19	88	735
Clothes-line support	T. Varcoe	622,788	Apr. 11	1083	251	87	224
Clothes-line supporter	D. F. Frisinger	621,056	Mar. 14	987	215	86	1704
Clothes-line trolley	E. Gilon	617,155	Jan. 3	571	134	86	112
Clothes-line window-bracket	J. G. von Hofe	639,045	Dec. 12	1570	359	89	2192
Clothes-pin	O. I. Bergeron	633,981	Oct. 3	2	1	89	3
Clothes-pin	A. Flesher and J. L. Crisler	626,894	June 13	1287	283	87	1881
Clothes-pin	F. S. Graves	638,507	Dec. 5	612	127	89	1983
Clothes-pin	W. I. F. Harden and E. Buck	625,261	May 16	2384	541	87	1199
Clothes-pin	E. O. Lunt	619,971	Feb. 21	2159	490	86	1273
Clothes-pin	W. L. Martin	639,259	Dec. 19	1964	453	89	2284
Clothes-pin	S. J. Miley	622,380	Apr. 4	310	72	87	59
Clothes-pin	E. F. Reser	629,114	July 18	2183	506	88	463
Clothes-pin	W. A. Simmons	618,444	Jan. 31	3043	673	86	655
Clothes-pin	M. E. Thompson	623,442	Apr. 18	2296	526	87	480
Clothes-pin box or holder	R. C. Darnes	617,284	Jan. 3	804	187	86	158
Clothes-pin sack and carrier	I. M. Harreff	621,662	Mar. 21	2075	463, 464	86	1929
Clothes-pin. Wooden	F. E. Benton	620,093	Feb. 28	2380	539	86	1330
Clothes-pounder	P. Byrns	626,455	June 6	443	104	87	1699
Clothes-pounder	C. Collins	638,214	Dec. 5	12	4	89	1869
Clothes-pounder	C. W. Cross	628,076	July 4	214	49	88	43
Clothes-pounder	A. C. Leigh	626,658	June 6	794	181	87	1768
Clothes-pounder	H. O. Soper	637,531	Nov. 21	2510	544	89	1461
Clothes-rack	J. Q. Adams	639,489	Dec. 19	2408	555	89	2373
Clothes-rack	J. H. Clough	633,987	Oct. 3	11	3	89	5
Clothes-rack	J. F. Koob	626,618	June 6	707	164	87	1752
Clothes-rack	S. Owen	624,528	May 9	1076	242	87	931
Clothes-rack	G. B. Shepherd	619,050	Feb. 7	480	100	86	903
Clothes-rack	J. C. Strickland	617,611	Jan. 10	1427	325	86	297
Clothes-rack	J. F. White	630,150	Aug. 1	790	171	88	879
Clothes-rack	L. A. Wiechel and D. Himmelheber	618,756	Jan. 31	3596	803	86	763
Clothes-rack	W. Wildermuth	630,430	Aug. 8	1363	304	88	1002
Clothes rack and closet. Combined	E. Christen	617,640	Jan. 10	1482	338	86	308
Clothes-reel-adjusting device	L. Mayer	619,047	Feb. 7	474	99	86	902
Clothes-suspender. Folding	F. Weber	624,415	May 2	857	193	87	865
Clothes. Wall-rack for drying	H. Bucklin	620,274	Feb. 28	2697	618	86	1390
Clothes-wringer	H. U. Ackerman	627,377	June 20	2165	476	87	2076
Clothes-wringer	G. A. Paddock	628,545	July 11	1118	261, 262	88	236
Clover-buncher	J. F. Wheeler	626,471	June 6	468	109, 110	87	1704
Clover-hulling-machine feeder	F. T. Wright	618,451	Jan. 31	3050	675	86	656
Clover or timothy recleaners. Recleaning attachment for	F. Bender	627,319	June 20	2041	449	87	2051
Club. Indian	S. A. Taylor	629,626	July 25	3120	726	88	663
Clutch	A. Allen and E. Moreau	627,316	June 20	2036	448	87	2050
Clutch	J. Brenzinger	629,651	July 25	3159	736	88	670
Clutch	E. S. Clarke	628,390	July 4	824	192	88	157
Clutch	F. R. Goolman	627,613	June 27	2630	578	87	2183

Alphabetical list of inventions—Continued.

Invention.	Name.	No.	Date.	Monthly volume. Spec.	Monthly volume. Drg.	Official Gazette. Vol.	Official Gazette. Page.
Clutch	M. Kane	628,249	July 4	550	132	88	108
Clutch	T. J. Koven	618,689	Jan. 31	3476	776, 777, 778	86	739
Clutch	H. T. La Clair	638,637	Dec. 5	848	184	89	2029
Clutch	J. Price	627,876	June 27	3089	676	87	2272
Clutch	G. H. Willetts	625,228	May 16	2312	526	87	1187
Clutch	J. A. Wright	621,011	Mar. 14	900	196	86	1688
Clutch and clutch-actuated mechanism	G. S. Strong	631,831	Aug. 29	3901	873	88	1552
Clutch and handle. Combined rope-	S. C. Houghton	628,224	July 4	494	118	88	99
Clutch. Automatic friction-	A. Sedgwick	625,359	May 23	2569	585	87	1260
Clutch-couplings. Device for uncoupling	T. H. Hatton	627,301	June 20	2000	440	87	2042
Clutch. Friction-	E. V. Faucett	630,532	Aug. 8	1555	347	88	1039
Clutch. Friction-	G. J. Gunderson	635,477	Oct. 24	2823	644	89	606
Clutch. Friction-	A. Herschmann	635,684	Oct. 24	3187	733, 734	89	676
Clutch. Friction-	H. W. Hill	617,098	Jan. 3	455	110	86	89
Clutch. Friction-	F. G. Hobart	617,419	Jan. 10	1082	247	86	230
Clutch. Friction-	S. Jackson	628,328	July 4	723	167	88	139
Clutch. Friction-	H. S. Kelly	622,007	Mar. 28	2742	619	86	2073
Clutch. Friction-	Z. Keough	623,550	Apr. 25	2497	573, 574	87	537
Clutch. Friction-	L. Schmidt	635,194	Oct. 17	2246	523	89	478
Clutch. Friction-	N. Shaw	627,627	June 27	2655	583	87	2188
Clutch. Friction-	A. Swasey and W. M. Allen	633,925	Sept. 26	3210	748	88	2379
Clutch. Friction-	J. Yocom	635,834	Oct. 31	3492	802	89	748
Clutch. Friction-	J. Yocom	635,835	Oct. 31	3494	803	89	748
Clutch. Hoisting-machine	C. L. Taylor	633,667	Sept. 26	2773	644	88	2291
Clutch mechanism	C. E. Bertels	629,328	July 25	2559	595	88	552
Clutch mechanism	A. E. Norris	638,669	Dec. 5	895	197, 198	89	2040
Coach. Invalid-	R. R. Bennett	623,591	Apr. 25	2575	589, 590	87	552
Coal-bag	J. S. Scully	637,673	Nov. 21	3146	652	89	1626
Coal-cutting engine	H. C. Sergeant	631,591	Aug. 22	3471	784, 785	88	1459
Coal-drill	G. F. Weiss	626,014	May 30	3807	866	87	1518
Coal-handling apparatus	W. H. Wall	628,876	July 11	1738	405, 406	88	358
Coal-hod. Ash-sifting	L. St. Clair	632,884	Sept. 12	1300	298	88	1978
Coal-loading apparatus	J. L. Lamb	619,191	Feb. 7	752	163	86	959
Coal-loading device	J. V. Schaefer	623,565	Apr. 25	2524	580	87	543
Coal, ore, &c. Conveyer for	C. W. Hunt and C. C. King	631,718	Aug. 22	3694	828, 829	88	1501
Coal-pocket	D. A. Robinson	622,018	Mar. 28	2759	622	86	2076
Coal-receptacle	J. Bailey and F. L. Armstrong	617,707	Jan. 17	1608	362	86	351
Coal-separator	E. D. Caryl and C. S. Snyder	620,416	Feb. 28	2936	674	86	1435
Coal unloading and distributing apparatus for use in ballast burning.	Z. G. Simmons, Jr., T. Forgham, and G. M. Bennett.	633,348	Sept. 19	2180	511, 512, 513	88	2163
Coals, ores, &c. Centrifugal washing for	P. Maurice	634,987	Oct. 17	1853	440, 441	89	401
Coaling-station	G. T. Honstain and C. E. Bird	626,232	June 6	27	6,7	87	1620
Coaster. Gravity-	H. O. and A. W. Moritz	634,669	Oct. 10	1287	303, 304	89	274
Coat and hat hook	C. M. Burgess	632,234	Sept. 5	11	3	88	1711
Coat and hat rack	G. W. McCausland	624,848	May 9	1658	375	87	1045
Coat-hanger	C. S. Comstock	623,234	Apr. 18	1920	441	87	403
Coating for metal structures. Antifouling	G. D. Coleman	629,426	July 25	2739	637	88	590
Coating. Machine for covering small articles with liquid or semiliquid	G. S. and W. K. Baker	622,102	Mar. 28	2898	654, 655, 656	86	2104
Coating material for decorating and building purposes.	G. F. Collantier	638,497	Dec. 5	599	------	89	1980
Coating one metal with another, &c	S. H. Thurston	622,732	Apr. 11	989	------	87	207
Coatings to metallic surfaces. Applying	F. S. Miller	636,388	Nov. 7	275	61	89	976
Coatings to objects or structures of iron or steel. Applying preservative	H. L. Hollis	621,084	Mar. 14	1031	226	86	1712
Coatings to structures. Apparatus for applying antifouling	G. D. Coleman	631,154	Aug. 15	2657	601	88	1278
Cobbling apparatus	N. Mikkelsen	626,920	June 13	1329	292	87	1889
Cock	G. O. H. Klopp	639,403	Dec. 19	2254	520	89	2342
Cock	J. H. Lieber	636,819	Nov. 14	1123	240	89	1175
Cock and boiler-check. Blow-off	W. McIntosh	630,067	Aug. 1	653	141	88	852
Cock and igniting device. Electrically-operated	P. L. Guyenot	631,162	Aug. 15	2674	604	88	1281
Cock and valve for bottles, &c	J. Bengué	620,535	Feb. 28	3150	721, 722	86	1477
Cock. Automatic cylinder-	S. M. Carlisle	619,391	Feb. 14	1103	249	86	1045
Cock. Automatic shut-off ball-	T. W. Ryan	618,438	Jan. 31	3036	671	86	653
Cock. Ball-	T. Dillon	623,706	Apr. 25	2766	633	87	587
Cock. Ball-	T. J. McHugh	617,597	Jan. 10	1398	317	86	291
Cock. Blow-off	L. E. Butler	634,440	Oct. 10	890	214, 215	89	195
Cock. Blow-off	D. B. Donnelly	620,287	Feb. 28	2725	625	86	1395
Cock box. Extension stop-	P. V. Dwyer	621,448	Mar. 21	1681	373	86	1851
Cock boxes, &c. Rim and cover for stop-	C. Rietzinger and W. D. Kavanagh.	626,565	June 6	625	144	87	1736
Cock. Compression-	J. H. Calahan	628,691	July 11	1423	331	88	296
Cock eel-guard	H. Mueller	639,903	Dec. 26	3165	729	89	2541
Cock for ash-ejectors. Plug-	F. J. Trewent and W. E. Proctor	622,090	Mar. 28	2877	648	86	2100
Cock for gas or liquids. Safety-	D. J. McOsker and O. F. Garvey	623,331	Apr. 18	2104	483	87	440
Cock. Gage-	J. J. Cain	639,707	Dec. 26	2811	649	89	2472
Cock. Gage-	B. A. Legg	618,696	Jan. 31	3491	780	86	742
Cock. Gage-	W. P. Phillips	619,216	Feb. 7	791	172	86	967
Cock. Gage-	J. H. Warren	618,527	Jan. 31	3190	705	86	683
Cock. Gas-	E. B. Jacobson	623,161	Apr. 18	1800	412	87	379

Alphabetical list of inventions—Continued.

Invention.	Name.	No.	Date.	Monthly volume. Spec.	Monthly volume. Dr'g.	Official Gazette. Vol.	Official Gazette. Page.
Cock. Gas-burner	A. Streubel	627,019	June 13	1502	328, 329	87	1924
Cock having igniting-tube. Gas-	J. F. C. Jürgens	627,121	June 20	1684	368	87	1978
Cock or faucet. Self-closing	I N. Glauber	622,342	Apr. 4	251	58	87	48
Cock or valve	M. M. Brophy	634,197	Oct. 3	391	100	89	81
Cock or valve. Stop-	H. M. Dunlap	629,894	Aug. 1	269	61	88	772
Cock. Right and left hand stop and waste	C. F. Smith	633,916	Sept. 26	3198	745	88	2377
Cock. Safety gas-	H. H. Fassett	635,012	Oct. 17	1892	450	89	409
Cock. Self-closing	J. Kelly	627,671	June 27	2728	598	87	2202
Cock. Self-closing gas-	J. A. Erickson and F. W. Young	638,178	Nov. 28	4110	867	89	1838
Cock. Sink and basin	H. Sieben	630,940	Aug. 15	2263	516	88	1202
Cock. Stop and waste	B. W. Boatenreiter	629,648	July 25	3156	735	88	669
Cock. Stop and waste	J. Flockhart and D. F. Keogh	618,792	Jan. 31	3650	816	86	774
Cock. Stop and waste	I. N. and J. H. Glauber	618,503	Jan. 31	3148	695	86	675
Cock. Stop and waste	C. M. Jarvis	619,256	Feb. 7	864	189	86	981
Cock. Stop and waste	H. Sieben	630,941	Aug. 15	2264	516	88	1203
Cock. Valve-	S. E. Ericson	621,300	Mar. 14	1422	314	86	1789
Coffee. Apparatus for cooling roasted	D. B. Fraser	619,297	Feb. 14	950	216	86	1015
Coffee-beans. Apparatus for treating	E. Canziani	631,616	Aug. 22	3508	790	88	1466
Coffee-mil'	J. Rhino	618,523	Jan. 31	3186	703	86	682
Coffee or grain mill	C. U. Farrar	636,124	Oct. 31	4079	933	89	864
Coffee or tea extractor	R. H. Haslam	618,089	Jan. 24	2360	526	86	512
Coffee or tea pot	G. W. Crawford	629,776	Aug. 1	31	8	88	727
Coffee or tea pot	G. E. Hall	636,731	Nov. 7	952	205	89	1125
Coffee-percolating package	H. M. Humphrey	634,349	Oct. 3	730	174	89	146
Coffee-pot	F. Acker	635,117	Oct. 17	2119	496	89	454
Coffee-pot	A. Angus	639,131	Dec. 12	1726	398	89	2222
Coffee-pot	A. Burckard	636,195	Oct. 31	4203	966	89	890
Coffee-pot	J. K. Cummings	630,666	Aug. 8	1793	404	88	1084
Coffee-pot	D. P. Goldsmith and B. F. Martyn	628,705	July 11	1441	335	88	300
Coffee-pot	W. F. Graf	625,924	May 16	1789	403	87	1088
Coffee-pot	E. H. Morrison	623,490	Apr. 18	2377	547	87	496
Coffee-pot	L. Stockett	621,867	Mar. 28	2473	552	86	2022
Coffee-pot	W. M. Viser	627,885	June 27	3107	680	87	2276
Coffee-pot	J. A. Wilmot	630,761	Aug. 8	1937	437	88	1113
Coffee-pot attachment	F. Washington	624,584	May 9	1175	264	87	951
Coffee-pot attachment. Percolating	W. J. Palm	637,481	Nov. 21	2416	524	89	1443
Coffee. Preparing malt	J. Geiger	632,108	Aug. 29	4413	991	88	1652
Coffee products. Utilizing waste	L. Hesse	640,161	Dec. 26	3628	834	89	2688
Coffee-pulping machine	R. T. Rickard	620,053	Feb. 21	2310	524, 525	86	1301
Coffee-roaster	L. T. Eanes	637,097	Nov. 14	1665	361	89	1281
Coffee-roaster	D. B. Fraser	627,993	July 4	66	12, 13	88	14
Coffee. Roasting	A. Brougier	617,434	Jan. 10	1109	------	86	235
Coffee-roasting machine	E. M. Potter	620,355	Feb. 28	2843	650	86	1418
Coffer-dam for screw-propellers	C. A. Eicke	624,198	May 2	462	97	87	788
Coffin	H. W. Booth	619,929	Feb. 21	2087	474	86	1259
Coffin	D. Gerwe	621,407	Mar. 21	1604	355	86	1837
Coffin	M. C. H. Nicolle	638,265	Dec. 5	114	26, 27	89	1888
Coffin	H. M. Williams	636,603	Nov. 7	654	144	89	1054
Coffin	J. Wittig	636,374	Nov. 7	253	56	89	972
Coffin-case	L. O. Brown	623,273	Apr. 18	1997	458	87	418
Coffin-handle	F. Chillingworth	632,914	Sept. 12	1348	310	88	1987
Coffin-lowering device	J. F. Plein	633,902	Sept. 26	3174	737	88	2372
Cogs in mortise-wheels. Tool for marking	J. N. Grove	627,411	June 20	2241	494	87	2089
Coil. Resistance-	W. P. Freeman	621,561	Mar. 21	1898	424	86	1893
Coin and bill holder	G. T. Bach	636,614	Nov. 7	683	149	89	1060
Coin and check collecting box. Combined	F. B. Many	634,359	Oct. 3	746	178	89	149
Coin and check collecting box. Combined	F. B. Many	634,360	Oct. 3	746	178	89	149
Coin assorting and counting apparatus	J. A. Kray	623,916	Apr. 25	3179	732, 733	87	667
Coin assorting and counting apparatus	F. S. D. Scott	634,506	Oct. 10	1002	239	89	218
Coin-box	C. B. Bishop	636,947	Nov. 14	1385	295	89	1227
Coin-carrier	J. N. Crabb	618,497	Jan. 31	3140	694	86	674
Coin-case	H. Anderson	618,318	Jan. 24	2782	617	86	591
Coin-controlled apparatus	F. R. Goode	633,240	Sept. 19	1969	462	88	2122
Coin-controlled apparatus	J. Paupa and G. Hochriem	635,867	Oct. 31	3554	818	89	760
Coin-controlled apparatus	R. Wagner	628,171	July 4	399	93, 94	88	80
Coin-controlled holding and locking device	W. T. Summers	627,361	June 20	2137	470, 471	87	2070
Coin-controlled machine	C. A. Brewer	629,334	July 25	2570	596	88	554
Coin-controlled mechanism	H. Hahn	636,258	Nov. 7	62	13, 14	89	935
Coin-controlled mechanism	M. Schluss	637,528	Nov. 21	2506	543, 544	89	1460
Coin-controlled mechanism	A. E. Watkins	636,420	Nov. 7	326	74	89	987
Coin-delivering device	M. McAneny	621,125	Mar. 14	1112	242, 243	86	1728
Coin-delivery and cash-register machine	E. J. Brandt	628,688	July 11	1409	328, 329, 330	88	293
Coin-delivery device	M. McAneny	620,954	Mar. 14	776	170	86	1665
Coin-detector	J. Mason	617,421	Jan. 10	1089	248	86	231
Coin-detectors for money-controlled machines. Ejector for	O. and A. Jaeger	638,967	Dec. 12	1441	329	89	2168
Coin-freed apparatus. Electric	J. H. F. Krull	627,736	June 27	2838	622, 623	87	2224
Coin-handling device	C. Debremond	626,528	June 6	565	131, 132	87	1724
Coin-holder	H. L. Haynes	633,839	Sept. 26	3061	711	88	2350
Coin holder and carrier	W. Henry and G. O. Herrmann	635,045	Oct. 17	1955	462	89	422
Coin-operated device	J. F. Blake	637,700	Nov. 21	3196	663	89	1636
Coin-operated machine	J. G. W. Romans and A. D. Grover	625,123	May 16	2144	487	87	1154
Coin-operated machines. Coin-guard or controlling device for	R. F. Tochtermann	639,115	Dec. 12	1701	392	89	2218
Coin-operated mechanism	L. P. Valiquet	631,911	Aug. 29	4032	903, 904	88	1577

Alphabetical list of inventions—Continued.

Invention.	Name.	No.	Date.	Monthly volume. Spec.	Monthly volume. Dr'g.	Official Gazette. Vol.	Official Gazette. Page.
Coins or checks. Making bimetallic	G. G. Greenburg	632,938	Sept. 12	1385	320	88	1994
Coke-drawer	J. A. Hebb	621,663	Mar. 21	2076	464	86	1930
Coke-loader	F. W. Stammler	637,427	Nov. 21	2323	501	89	1425
Coke. Making	J. Hemingway	637,255	Nov. 21	1994	427	89	1359
Coke-oven and operating same	F. W. C. Schniewind	627,595	June 27	2592	571	87	2175
Coke-ovens. Apparatus for leveling coal in	G. Hilgenstock	639,570	Dec. 19	2552	585, 586	89	2402
Coking-oven	L. J. Hirt	632,116	Aug. 29	4429	995, 996	88	1655
Coking process and apparatus	J. Bowing	627,043	June 13	1536	335, 336	87	1930
Colander	M. R. Williams	618,310	Jan. 24	2772	614	86	590
Cold-storage apparatus	J. T. Ludlow	632,356	Sept. 5	265	62	88	1759
Collapsible box	D. Drawbaugh	632,451	Sept. 5	442	99	88	1794
Collapsible box. Lock bottom and top	G. L. Johnstone	636,806	Nov. 14	1105	237	89	1172
Collapsible seat and head-rest	H. S. Kidd and M. H. Depue	633,012	Sept. 12	1500	348, 349	88	2017
Collapsible tube	W. S. Scales	624,549	May 9	1115	251	87	938
Collar	J. C. Fessenden	636,032	Oct. 31	3868	889	89	822
Collar and cuff dampener	L. G. Carr	618,641	Jan. 31	3387	754	86	721
Collar and shirt protector	G. W. Stauffer	636,864	Nov. 14	1209	261	89	1193
Collar-clasp	S. Odson	631,877	Aug. 29	3986	891	88	1568
Collar-crimper	W. W. Youmans	618,552	Jan. 31	3235	718	86	691
Collar. Horse-	L. Hansen	636,798	Nov. 14	1092	234	89	1169
Collar. Horse-	L. L. Miller	626,549	June 6	601	138	87	1731
Collar or cuff fastener	M. Hale and C. Tudor	635,850	Oct. 31	3520	809	89	754
Collar-pad	F. A. Doolittle	638,008	Nov. 28	3778	794	89	1772
Collar-protector	J. B. M. Clevenstine	639,213	Dec. 19	1884	434	89	2266
Collar-shaping machine	W. J. Asher	627,889	June 27	3115	682	87	2277
Collar-steaming mechanism	J. W. Gardner and A. E. Grant	638,706	Dec. 12	993	221	89	2079
Collar-stuffing machine	N. G. Deaton	636,496	Nov. 7	457	102	89	1013
Collaret	H. G. B. Peters	624,085	May 2	248	52	87	749
Collodion. Making caustic	A. Camuitzer	627,296	June 20	1988	------	87	2040
Collodion mixture	H. Helbing and G. Pertsch	628,463	July 11	960	------	88	204
Color and making same. Blue-black disazo	I. Levinstein and R. Herz	629,748	July 25	3334	------	88	704
Coloring-matter and manufacturing same. Blue	K. Heumann	622,139	Mar. 28	2982	------	86	2121
Coloring-matters. Making indigo	K. Heumann	617,652	Jan. 10	1503	------	86	312
Colter	A. C. Gaylord	630,680	Aug. 8	1815	409	88	1088
Colter	F. M. Neff and J. W. Maple	639,904	Dec. 26	3165	729	89	2541
Colter-clamp	A. C. Gaylord	630,679	Aug. 8	1814	408	88	1088
Colter-clamp	H. W. Smith	623,263	Apr. 18	1982	454	87	415
Colter-cleaning device	F. Lamphere	618,884	Feb. 7	119	25	86	827
Column. Box-	L. L. Calvert	626,365	June 6	295	67	87	1671
Column. Hand-rail	F. R. Brown	634,936	Oct. 17	1751	416	89	380
Column. Metallic	F. C. Noble	631,655	Aug. 22	3574	806	88	1479
Column. Sectional wood	F. C. Brooks	623,272	Apr. 18	1996	458	87	418
Column. Sectional wood	F. C. Brooks	627,681	June 27	2745	601	87	2205
Column. Wooden	A. F. Schwerd and A. W. Emrick	628,898	July 11	1787	416	88	368
Comb: *See* Currycomb. Hair-drying comb.							
Comb	G. Brain	623,201	Apr. 18	1865	427	87	391
Comb	I. D. Swindell	629,703	July 25	3246	756	88	687
Comb-cleaner	J. M. Black	632,935	Sept. 12	1379	319	88	1993
Comb-cutting machine	J. Koenig and N. Dedrick	633,696	Sept. 26	2830	657, 658	88	2302
Comb-cutting machine	G. S. Walker	627,450	June 20	2309	508, 509	87	2102
Combs. Making metal	J. Koenig	633,721	Sept. 26	2875	668	88	2311
Combing-machine	T. Burrows	633,794	Sept. 26	2989	694, 695	88	2335
Combing-machine for textile materials	E. Delette	620,747	Mar. 7	403	82	86	1580
Combing-machine for textile materials	E. Delette	625,967	May 30	3671	833, 834	87	1492
Combing-machine rollers. Bearing for	J. R. Hoyle and H. Colburn	617,465	Jan. 10	1158	264	86	244
Combing vegetable fibers. Machine for	T. Burrows	633,795	Sept. 26	2990	695	88	2335
Combination-chair	J. Sheridan	628,166	July 4	389	92	88	79
Combination-lock	M. Biron	631,980	Aug. 29	4162	935	88	1602
Combination-lock	H. L. Clarke	619,940	Feb. 21	2103	477, 478	86	1262
Combination-lock	J. R. Houts	635,546	Oct. 24	2943	672	89	629
Combination-lock	A. McKenzie	635,968	Oct. 31	3738	864, 865	89	795
Combination-lock	A. McKenzie	635,969	Oct. 31	3743	865	89	796
Combination-lock	A. McKenzie	635,970	Oct. 31	3746	865	89	796
Combustible compound	J. W. Leadbeater	622,374	Apr. 4	303	------	87	58
Combustion-engine	A. G. Pace. (Reissue)	11,775	Sept. 26	3320	773, 774	88	2400
Combustion-motor	R. Mewes	633,878	Sept. 26	3136	727, 728	88	2365
Commerciograph	B. R. Herman	635,596	Oct. 24	3026	695	89	644
Commode	J. D. Farmer	629,434	July 25	2752	639	88	592
Commode	J. F. Voss	638,894	Dec. 12	1314	299	89	2142
Commode attachment	P. A. Smith	623,189	Apr. 18	1848	423, 424	87	387
Commutator	J. Risbridger	625,202	May 16	2265	516	87	1178
Commutator-bar	C. F. Brooker	624,167	May 2	420	86	87	780
Commutator brush-holder	W. Cooper, W. H. Warren, and C. A. Mudge.	634,804	Oct. 10	1520	357	89	319
Commutator brush-holder	G. H. Jantz, W. Leist, and O. W. Jantz.	624,815	May 9	1590	362	87	1033
Commutator-cleaner	J. T. Morrow	618,992	Feb. 7	385	80, 81	86	885
Commutator grinding-rig	F. Wilkie	632,666	Sept. 5	845	198	88	1876
Commutator retaining-band	J. R. Grindrod	619,299	Feb. 14	954	216	86	1016
Commutator short-circuiter	E. C. Newcomb	618,579	Jan. 31	3283	728, 729	86	701

Alphabetical list of inventions—Continued.

Invention.	Name.	No.	Date.	Monthly volume.		Official Gazette.	
				Spec.	Dr'g.	Vol.	Page.
Compass and course corrector	J. M. Fields	628,600	July 11	1214	284, 285	88	254
Compass. Beam-	F. A. Hannah	617,014	Jan. 3	291	64	86	58
Compass. Beam-	R. C. Weishampel and F. K. Duncan.	619,813	Feb. 21	1883	429	86	1220
Compass-card	J. W. Gillie	626,686	June 13	853	194	87	1799
Compass errors. Device for correcting	J. Christensen	629,757	July 25	3352	782	88	707
Compass for drawing conic sections	W. Ziethen	639,488	Dec. 19	2406	554	89	2373
Compass guide-support	R. R. Robinson	626,246	June 6	52	12	87	1625
Compass-head	J. Wild	621,006	Mar. 14	889	193	86	1686
Compass. Miner's	W. Van Slooten	635,606	Oct. 24	3046	700	89	648
Compass or drawing instrument	G. Veronese and A. Guadagnini	623,227	Apr. 18	1906	437	87	400
Compass. Ship's or similar	L. Rellstab	619,618	Feb. 14	1486	339, 340	86	1118
Compass. Surveyor's	R. J. Goeppinger	633,832	Sept. 26	3051	709	88	2348
Compensator	H. Bezer	638,210	Dec. 5	3	1,2	89	1867
Compensator and railway-signal. Wire-	N. Ratchford	634,273	Oct. 3	572	141	89	114
Composing-machine	J. D. C. Chateau	637,086	Nov. 14	1641	355, 356, 357	89	1277
Composing-machine	R. C. Elliott	640,119	Dec. 26	3562	819	89	2624
Composition of matter	G. W. Bailey	639,495	Dec. 19	2416	-----	89	2375
Composition of matter	G. T. Bruckmann	632,096	Aug. 29	4381	984	88	1645
Composition of matter	R. W. Hochstetter	619,889	Feb. 21	2026	-----	86	1248
Composition of matter	G. Olney	627,008	June 13	1488	-----	87	1921
Composition of matter	C. Rath	619,615	Feb. 14	1483	-----	86	1117
Compound engine	R. E. Bradford	625,868	May 30	3495	791, 792	87	1459
Compound engine	T. E. Chandler	621,953	Mar. 28	2651	597	86	2054
Compound engine	E. W. Harden	625,758	May 30	3266	741	87	1415
Compound engine	W. H. Johnson	627,425	June 20	2261	500	87	2093
Compound engine	C. J. Mellin	624,360	May 2	755	170	87	844
Compound or composition of matter	J. L. Curtis	621,797	Mar. 28	2346	-----	86	1996
Compressed-air mechanism for railway rolling-stock, &c.	F. Schumacher	625,853	May 30	3458	784, 785	87	1452
Compressed-air mechanism for vehicles	F. Schumacher	628,727	July 11	1469	341	88	306
Compressible tube	T. Y. Kinne	621,573	Mar. 21	1913	427	86	1896
Compressing and baling apparatus	W. A. Patterson	622,161	Mar. 28	3022	684	86	2130
Compressing-machine	F. B. Deane	629,716	July 25	3273	763, 764	88	692
Compressing-machine	C. W. Smith	631,446	Aug. 22	3187	724	88	1402
Compressing powdered substances. Apparatus for	P. E. M. Jamain	628,225	July 4	495	118, 119, 120	88	99
Compression-controller	F. G. Hobart	627,850	June 27	3043	665	87	2264
Compression-coupling	F. L. Bickel	625,948	May 30	3630	825	87	1485
Compressor	J. A. Charter and F. G. Hobart	626,053	May 30	3884	882	87	1531
Computing device and weighing-scale. Combined	J. H. Stephens	628,559	July 11	1153	268, 269	88	242
Computing device and weighing-scale. Combined	J. H. Stephens	628,560	July 11	1155	270	88	243
Computing device. Tax-	W. F. Parker	628,895	July 11	1782	415	88	367
Computing-machine	J. E. Duncan	617,323	Jan. 10	878	206	86	190
Computing-machine	H. H. Helmick	630,053	Aug. 1	613	133, 134, 135	88	844
Computing-machine	J. J. Wall and H. Rogalsky	632,074	Aug. 29	4344	976	88	1637
Concentrating and amalgamating machine	G. R. Couls and P. P. Dohlgreen	628,697	July 11	1430	332	88	297
Concentrating dry placer material. Apparatus for	A. Chaumeil	635,886	Oct. 31	3583	824	89	766
Concentrating-table	W. G. Dodd	638,324	Dec. 5	256	53	89	1915
Concentrating-table	U. S. James	633,265	Sept. 19	2016	473, 474	88	2130
Concentrator	C. L. Rose and W. P. Hyatt	630,989	Aug. 15	2359	537	88	1220
Concentrator	J. C. and R. C. Waters	632,075	Aug. 29	4346	977	88	1637
Concentrator	G. W. Williams	621,986	Mar. 28	2713	612	86	2066
Concentrator	J. Woodham	633,059	Sept. 12	1582	368	88	2034
Concentrator. Dry	F. W. Wood	633,254	Sept. 19	1999	469, 470	88	2128
Concentrator. Endless-belt	J. Jacobs	624,215	May 2	492	105	87	794
Concrete	W. M. Robinson	617,427	Jan. 10	1098	-----	86	233
Concrete arch	E. Thacher	617,615	Jan. 10	1432	327	86	298
Concrete-breaking machine	J. A. Fairchild and G. R. Wilton	617,310	Jan. 3	846	197	86	167
Concrete gaging and mixing machine	J. W. T. Stephens	630,420	Aug. 8	1348	301	88	999
Concrete. Making	P. C. Hains, Jr., and C. R. Weaver	633,312	Sept. 19	2119	497	88	2151
Concrete-making apparatus	P. C. Hains, Jr., and C. R. Weaver	633,313	Sept. 19	2121	497	88	2151
Concrete-mixer	S. P. McKelvey	634,416	Oct. 3	839	202	89	168
Concrete-mixer	W. M. Riley	617,425	Jan. 10	1094	249	86	232
Concrete mixing, transporting, and dumping apparatus. Combined	I. H. Fisher	624,200	May 2	466	98	87	789
Concrete, mortar, &c. Apparatus for mixing	I. H. Fisher	631,782	Aug. 29	3828	853	88	1536
Condenser	P. C. Hewitt	629,682	July 25	3213	748, 749	88	681
Condenser. Evaporative	H. J. Fraser	625,877	May 30	3515	798, 799	87	1463
Condensing and cooling vapors or liquids. Apparatus for	T. Fairley	627,774	June 27	2908	636	87	2238
Condensing apparatus. Steam-	L. Hirt	636,000	Oct. 31	3816	877, 878	89	812
Condensing apparatus. Steam-	J. I. Thornycroft	622,872	Apr. 11	1250	289, 290	87	256
Condensing attachment. Exhaust-pipe	R. P. Bolton	624,616	May 9	1232	276	87	962
Condiment-holder	H. M. Cassidy	635,275	Oct. 17	2397	558	89	506
Condiment-holder	A. S. Sechrist	618,138	Jan. 24	2455	547	86	531
Conductor and cable terminal	H. G. Grush	635,960	Oct. 31	3724	861	89	792
Conductors through conduits. Clip for drawing	J. G. Brien	633,067	Sept. 12	1593	371	88	2036
Conduit	R. D. Kimball and A. A. McKenzie	638,931	Dec. 12	1380	315	89	2155

Alphabetical list of inventions—Continued.

Invention.	Name.	No.	Date.	Monthly volume. Spec.	Monthly volume. Dr'g.	Official Gazette. Vol.	Official Gazette. Page.
Conduit for wires or cables	E. H. Callaway	618,837	Feb. 7	33	7	86	810
Conduit or pipe	H. M. and H. A. Gordon	630,605	Aug. 8	1683	379	88	1064
Conduit-pipe	A. S. Dixon	634,230	Oct. 3	481	121	89	98
Conduit-plow	E. M. Hewlett	639,235	Dec. 19	1926	443	89	2276
Conduit-rod	F. S. Woodward	635,833	Oct. 31	3490	802	89	748
Conduit-threader	F. A. Pooler	622,531	Apr. 4	632	148	87	120
Conduit. Underground	R. W. Lyle	625,451	May 23	2729	621	87	1291
Cone-adjuster and nut-lock	F. G. Mott	634,090	Oct. 3	186	46,47	89	41
Cone and ball-bearing	F. M. King and P. W. Egan	616,937	Jan. 3	147	32	86	29
Confectionery. Charging mechanism for coating	W. H. Weeks	637,053	Nov. 14	1580	341	89	1266
Confectionery-coating machine	W. H. Weeks	634,633	Oct. 10	1222	290, 291	89	260
Confectionery-holder	F. H. Roberts. (Reissue)	11,726	Mar. 21	2303	517	86	1973
Confectionery-machine	H. B. Pinney	634,185	Oct. 3	371	95	89	76
Confectionery-ornamenting machine	T. Robertson	618,482	Jan. 31	3099	686	86	666
Confectionery-package	F. H. Roberts	622,396	Apr. 4	332	77	87	63
Confectionery with chocolate. Machine for covering	C. Forcke and N. Frings	633,186	Sept. 19	1854	437	88	2099
Confessional-register	P. J. O'Connor	628,229	July 4	504	122	88	100
Conformator	E. Stahl	634,374	Oct. 3	768	183, 184	89	152
Connecting-rod	E. E. Wigzell	624,593	May 9	1188	267	87	953
Connection. Adjustable	O. H. Huebel	635,100	Oct. 17	2079	489	89	447
Consecutive-view apparatus	H. Casler	636,715	Nov. 7	890	197	89	1104
Consecutive-view apparatus	H. Casler	636,717	Nov. 7	894	198	89	1105
Consecutive-view apparatus	W. K. L. Dickson	636,500	Nov. 7	465	104	89	1014
Consecutive-view apparatus	W. K. L. Dickson	636,642	Nov. 7	742	162	89	1071
Consecutive-view apparatus	J. Mason	629,582	July 25	3037	709, 710	88	647
Consecutive-view apparatus. Film-feeding mechanism for	H. Casler and J. A. Pross	636,716	Nov. 7	893	197	89	1105
Contact for controllers	G. H. Condit	622,606	Apr. 4	755	175	87	144
Continuous kiln for baking pottery or burning cement.	E. Gobbe	622,219	Apr. 4	40	9,10	87	11
Continuous kiln or furnace for burning bricks, &c.	E. C. Brice	636,193	Oct. 31	4199	964, 965	89	890
Controller	T. von Zweigbergk	624,719	May 9	1407	315	87	996
Controller	T. von Zweigbergk	625,915	May 30	3579	812, 813	87	1474
Controller	T. von Zweigbergk	627,376	June 20	2160	475, 476	87	2075
Controller-operating mechanism	W. G. Wagenhals	626,643	June 6	762	174	87	1761
Convertible case	E. M. Turner	630,427	Aug. 8	1358	303	88	1001
Convertible chair	J. W. Diggs and A. Roettger	618,067	Jan. 24	2316	517	86	504
Convertible chair	E. L. Thompson	635,613	Oct. 24	3059	702	89	651
Convertible seat	A. Huttinger	627,504	June 27	2408	529	87	2139
Conveyer	E. S. Decker	630,802	Aug. 8	2011	454, 455	88	1129
Conveyer	E. S. Decker	630,804	Aug. 8	2015	455	88	1130
Conveyer	A. J. Frith	620,299	Feb. 28	2745	629	86	1400
Conveyer	W. B. Pero and J. Koerner	640,024	Dec. 26	3381	775	89	2587
Conveyer	D. J. Sheldrick	620,371	Feb. 28	2870	657	86	1423
Conveyer	P. L. Suell	625,213	May 16	2286	521	87	1181
Conveyer and bucket therefor	E. S. Decker	630,799	Aug. 8	2002	453	88	1127
Conveyer and distributer. Belt	G. F. Bartlett and G. A. Overstrom	619,463	Feb. 14	1228	279, 280	86	1069
Conveyer apparatus	J. and W. Titus	639,003	Dec. 12	1518	348	89	2182
Conveyer attachment for blast or suction pipes. Pneumatic	J. K. Miller and O. Nilander	627,080	June 13	1600	350	87	1942
Conveyer. Bucket	C. A. Case	633,118	Sept. 19	1729	405, 406	88	2074
Conveyer. Bucket	J. M. Dodge	637,716	Nov. 21	3220	670	89	1641
Conveyer. Bucket	A. J. Frith	620,298	Feb. 28	2741	628	86	1399
Conveyer. Chain	T. A. Coleman	627,482	June 27	2366	521	87	2130
Conveyer-chain chair	T. J. Neacy	622,064	Mar. 28	2832	638	86	2090
Conveyer drive-chain	A. R. Anthony	617,137	Jan. 3	536	127	86	105
Conveyer drive-chain	A. R. Anthony	617,138	Jan. 3	538	128	86	106
Conveyer. Endless	E. S. Decker	630,803	Aug. 8	2013	455	88	1129
Conveyer. Endless	T. L. Marvel	628,274	July 4	608	143	88	117
Conveyer. Endless	T. O. Terhune	630,800	Aug. 8	2006	454	88	1128
Conveyer for unloading vessels	O. J. Conley	625,085	May 16	2065	464	87	1140
Conveyer for unloading vessels	O. J. Conley	625,086	May 16	2067	464, 465	87	1140
Conveyer. Freight-	M. Butler	620,015	Feb. 21	2240	508, 509	86	1287
Conveyer or elevator. Endless	G. C. Getchell	627,409	June 20	2238	493	87	2089
Conveyer. Portable	W. L. McCabe	635,177	Oct. 17	2218	517	89	473
Conveyer roller-support. Belt-	M. Lynch	625,342	May 23	2544	578	87	1255
Conveyer. Screen	O. J. Conley	636,762	Nov. 14	1023	219	89	1155
Conveyer. Screw	S. B. Peck	635,868	Oct. 31	3556	818	89	760
Conveyer slide-block	J. M. Dodge	628,776	July 11	1565	361	88	326
Conveyer. Spiral	R. Commichau	626,409	June 6	365	86	87	1684
Conveyer. Suction or injector	J. Sibley	628,187	July 4	430	102	88	87
Conveying apparatus	G. A. Amsden	640,072	Dec. 26	3478	797, 798	89	2606
Conveying apparatus	J. T. Cowley	640,101	Dec. 26	3529	810, 811, 812	89	2617
Conveying apparatus	J. T. Cowley	640,102	Dec. 26	3533	812	89	2617
Conveying apparatus	J. T. Cowley	640,103	Dec. 26	3536	812	89	2618
Conveying apparatus	J. T. Cowley	640,104	Dec. 26	3537	813	89	2618
Conveying apparatus	E. S. Decker	630,801	Aug. 8	2008	454	88	1128
Conveying apparatus	E. S. Decker	630,805	Aug. 8	2017	456	88	1131
Conveying apparatus	J. G. Delaney	636,768	Nov. 14	1032	221	89	1157
Conveying apparatus	T. S. Miller	623,328	Apr. 18	2097	481	87	439
Conveying apparatus	T. S. Miller	637,142	Nov. 14	1772	380	89	1301

Alphabetical list of inventions—Continued.

Invention.	Name.	No.	Date.	Monthly volume.		Official Gazette.	
				Spec.	Dr'g.	Vol.	Page.
Conveying apparatus	T. S. Miller	637,143	Nov. 14	1773	380, 381	89	1301
Conveying apparatus	T. J. Vollkommer	629,140	July 18	2233	517	88	472
Cooker. Feed-	C. H. Dayton	618,647	Jan. 31	3401	757	86	724
Cooker. Portable feed-	W. S. Wright	623,755	Apr. 25	2833	649	87	600
Cooker. Steam-	C. Ball	629,320	July 18	2539	591	88	529
Cooker. Steam-	T. Perrin	632,199	Aug. 29	4588	1033	88	1686
Cooker. Steam-	J. Walter	640,053	Dec. 26	3439	790	89	2598
Cooker. Steam-	T. G. Wilson	623,858	Apr. 25	3075	708	87	647
Cooking and drying apparatus	F. Cox	618,496	Jan. 31	3139	694	86	673
Cooking and heating apparatus	J. H. Goodfellow	621,813	Mar. 28	2371	530	86	2001
Cooking apparatus. Electrical	J. B. Cary	628,695	July 11	1428	332	88	297
Cooking apparatus. Food-	M. S. Trumbo	625,072	May 16	2045	460	87	1136
Cooking cotton-seed. Process of and apparatus for	W. H. Cook	639,529	Dec. 19	2471	570	89	2386
Cooking utensil	J. A. Dion	620,750	Mar. 7	407	84	86	1581
Cooking utensil	H. J. Halm	624,206	May 2	481	103	87	791
Cooking utensil	W. A. Kuster	617,880	Jan. 17	1957	438	86	421
Cooking utensil	J. R. Morgan	625,586	May 23	2956	672	87	1336
Cooking vessel	S. Schwartz	630,414	Aug. 8	1327	298	88	995
Cooler: *See* Beer-cooler. Milk-cooler. Centrifugal cooler. Ore-cooler. Liquid-cooler. Water-cooler.							
Cooler for soda-water or other aerated liquids	C. Adami	626,450	June 6	435	102	87	1698
Cooling and freezing apparatus	S. D. Smith	627,602	June 27	2604	574	87	2178
Cooling apparatus	L. Bell	636,886	Nov. 14	1251	269, 270	89	1201
Cooling apparatus	L. Bell	636,887	Nov. 14	1256	270	89	1202
Cooling apparatus	L. Bell	636,888	Nov. 14	1258	270, 271	89	1203
Cooling beer, &c. Apparatus for	W. Bachner	634,792	Oct. 10	1501	353	89	315
Coop. Collapsible chicken-	W. L. Walton	633,929	Sept. 26	3214	749	88	2380
Coop. Folding	J. N. Suprunowski	626,109	May 30	4008	914, 915	87	1552
Coop. Folding	O. Terry	620,512	Feb. 28	3092	707	86	1465
Coop. Folding	C. H. Thomsen and H. J. M. Jörgensen.	639,628	Dec. 19	2652	608	89	2423
Coop. Poultry-	E. F. Hewitt	631,541	Aug. 22	3371	765	88	1439
Copies. Making press-	L. D. Craig	628,698	July 11	1432	------	88	298
Copper by means of electrolysis. Producing basic phosphate of	C. Luckow	627,267	June 20	1939	------	87	2030
Copper. Electrometallurgical process of extracting native	T. Craney	636,321	Nov. 7	159	35	89	953
Copper. Electrolytic refining of	E. A. Smith	617,886	Jan. 17	1966	------	86	423
Copper oxid. Producing	C. Luckow	626,547	June 6	600	------	87	1730
Copperas. Process of and apparatus for making	A. S. Ramage	640,026	Dec. 26	3384	776	89	2587
Copy-hook	E. L. Horney	636,432	Nov. 7	345	78	89	991
Copy-hook and cover	J. A. Ramsey	626,441	June 6	418	99	87	1694
Copy-holder	W. Cord	624,912	May 16	1768	399	87	1085
Copy-holder	L. Hudgin	630,231	Aug. 1	920	201	88	904
Copy-holder	J. H. McBride	627,132	June 20	1700	373	87	1982
Copy-holder	G. H. Rogers	625,064	May 16	2031	457	87	1134
Copy-holder	E. Waldrip	634,922	Oct. 17	1732	411	89	377
Copy-holder	O. A. Woolley	636,423	Nov. 7	332	75	89	988
Copying apparatus	J. G. Beckton	627,636	June 27	2675	586, 587	87	2192
Copying apparatus	H. Krandt	630,901	Aug. 15	2192	499	88	1188
Copying apparatus	F. H. Wolever	638,899	Dec. 12	1321	300	89	2144
Copying apparatus. Hectographic	E. Arm	632,619	Sept. 5	736	169	88	1852
Copying device for documents, drawings, &c.	A. Ihn	625,842	May 30	3439	780	87	1448
Copying documents, drawings, &c. Apparatus for	N. Ponsolle	622,389	Apr. 4	320	74	87	61
Copying-press	F. L. Dyer	628,701	July 11	1436	333	88	298
Copying-press	J. R. Freuler	633,645	Sept. 26	2734	637	88	2282
Copying-press	C. S. Phelps	617,042	Jan. 3	363	88	86	69
Copying-press	B. Phelps	627,081	June 13	1602	350	87	1942
Copying-press	F. G. J. Post	636,551	Nov. 7	563	125	89	1034
Copying-press	W. Thexton	638,608	Dec. 5	794	172	89	2018
Copying-press bath apparatus	F. W. Koch	625,777	May 30	3308	751	87	1423
Copying press. Letter-	W. L. Spaulding	633,665	Sept. 26	2769	643	88	2290
Copying press. Letter-	N. C. Stiles	632,379	Sept. 5	314	71	88	1769
Cord-hall holder	A. Weinberg	631,141	Aug. 15	2633	596	88	1274
Cord-drying machinery	C. Schrader and J. Overman	638,993	Dec. 12	1504	345	89	2179
Cord-fastener	L. M. Devore	639,962	Dec. 26	3285	751	89	2567
Cord-holder	S. K. Dennis	624,190	May 2	450	93, 94	87	786
Cord-holders, &c., consisting of malleable or annealed iron having chilled portions. Apparatus for founding	S. K. Dennis	624,191	May 2	451	94, 95	87	786
Cord, lines, laces, &c. Ornamental knob or end piece for	B. J. Fisher	626,374	June 6	310	72	87	1674
Cord or rope machines. Automatic stopper for	J. Holden	629,010	July 18	1985	462, 463	88	423
Cord-tying device	C. A. Postley	629,871	Aug. 1	220	49	88	763
Cordage-machine	F. J. F. Graf	633,957	Sept. 26	3274	763	88	2391
Cork-branding machine	F. C. H. Strasburger	631,388	Aug. 22	3088	699	8	1382
Cork-drawing device	H. E. Peterson	632,742	Sept. 12	1017	236	88	1922
Cork-extractor	M. D. Converse	624,457	May 9	935	209, 210	87	904
Cork-extractor	H. J. Williams	619,648	Feb. 14	1557	354, 355	86	1131
Cork-finishing machine	T. Thompson	638,528	Dec. 5	650	135	89	1990
Cork-puller	C. Morgan	620,949	Mar. 14	768	168	86	1663
Corks. Machine for reshaping crown-	H. W. Camphell	617,277	Jan. 3	793	185	86	156
Corking-machine	A. A. Pindstofte	629,047	July 18	2050	478	88	437

Alphabetical list of inventions—Continued.

Invention.	Name.	No.	Date.	Monthly volume. Spec.	Monthly volume. Dr'g.	Official Gazette. Vol.	Official Gazette. Page.
Corkscrew and valve for beer-pumps. Combined	F. Preston	637,826	Nov. 28	3423	716	89	1701
Corkscrew, screw-driver, &c. Folding	G. W. Jopson	636,531	Nov. 7	534	117	89	1029
Corncob kindling	R. M. Skiles and E. M. Bourne	626,308	June 6	163	39	87	1644
Corn compressor or binder	H. A. Horton	620,869	Mar. 7	621	135	86	1625
Corn cutter, shocker, and binder	C. H. Underwood	626,512	June 6	542	125	87	1718
Corn-drill hopper	A. M. Campbell	631,358	Aug. 22	3024	685	88	1370
Corn header. Kafir-	J. L. Hart	624,798	May 9	1551	353, 354	87	1025
Corn-husker	F. Honisch	618,249	Jan. 24	2662	589	86	568
Corn-husker	W. F. Lillie	633,600	Sept. 26	2659	621	88	2268
Corn-husker	J. J. McDonald	633,211	Sept. 19	1906	448	88	2110
Corn-husker	H. N. F. Sholl	633,220	Sept. 19	1938	455	88	2116
Corn-husker	A. Stahl	631,881	Aug. 29	3991	892	88	1569
Corn-husker	W. H. Stoner	635,610	Oct. 24	3056	701	89	650
Corn-husker	P. A. Waller	631,913	Aug. 29	4038	905	88	1578
Corn-husker	T. P. Walter	634,923	Oct. 17	1734	411	89	377
Corn-husker and feed-cutter	P. Rupp	619,231	Feb. 7	816	178, 179	86	972
Corn-husker and fodder-shredder. Combined	A. Rosenthal	621,505	Mar. 21	1790	398, 399	86	1872
Corn-husker and fodder-shredder. Combined	A. Rosenthal	639,614	Dec. 19	2619	602	89	2417
Corn-husker and fodder-shredder. Combined	E. A. Stephenson	622,287	Apr. 4	157	36, 37, 38, 39	87	33
Corn-husker and fodder-shredder. Combined	R. S. Swarthout	637,534	Nov. 21	2514	545	89	1462
Corn-husker separating mechanism	W. Gutenkunst	637,247	Nov. 21	1983	424, 425	89	1356
Corn husking and cutting machine	A. Rosenthal	639,615	Dec. 19	2625	603	89	2417
Corn-husking and fodder-shredding machine	F. M. Teeguarden	627,547	June 27	2492	547, 548	87	2155
Corn-husking machine	C. E. Brening	618,052	Jan. 24	2270	506, 507	86	496
Corn-husking machine	R. J. Holmgreen	621,919	Mar. 28	2574	580	86	2040
Corn-husking machine	M. Young	637,194	Nov. 14	1872	402, 403	89	1319
Corn-knife	E. D. Woods	628,594	July 11	1206	282	88	253
Corn. Machine for gatheriug silk from cut	F. S. Ulery	637,537	Nov. 21	2521	546, 547	89	1463
Corn on the cob. Implement for slitting green	R. M. Pancoast	631,259	Aug. 15	2848	643	88	1317
Corn or other cereals. Cleaner for	J. Q. Adams	629,484	July 25	2859	665	88	612
Corn-popper or coffee-roaster. Rotary	S. P. Pickett	616,964	Jan. 3	186	42	86	37
Corn-roaster	S. C. Brinser	625,512	Apr. 25	2422	556	87	523
Corn-sheller	I. G. Berry	637,698	Nov. 21	3192	663	89	1635
Corn-sheller	J. Donovan	636,025	Oct. 31	3859	886	89	821
Corn-sheller	J. Donovan	636,026	Oct. 31	3860	887	89	821
Corn-sheller	L. E. Gaisser	637,930	Nov. 28	3622	760	89	1742
Corn-sheller	S. F. Hicks	636,665	Nov. 7	790	174, 175	89	1082
Corn-sheller	C. N. McLaughlin	628,955	July 18	1891	439	88	405
Corn shocker and carrier	J. D. Groves	624,646	May 9	1279	285, 286	87	969
Corn. Separating germ from	J. F. Phillips	637,029	Nov. 14	1544	332	89	1259
Cornstalk-cutter. Three-row	A. A. Nilson and J. J. Ven	627,135	June 20	1702	374	87	1982
Cornstalk-rake	J. B. Moyer	624,960	May 16	1859	417, 418	87	1102
Cornstalks. Machine for removing pith from	G. R. Sherwood	631,186	Aug. 15	2707	612, 613	88	1289
Corn-topper	A. N. Knisely	632,269	Sept. 5	114	25, 26	88	1729
Corner-bead	E. B. Marsh	617,881	Jan. 17	1958	438	86	421
Corner bending and forming press	F. Wuelfing	629,412	July 25	2716	631	88	585
Corner-brace	W. W. Sherwin	637,217	Nov. 14	1920	411	89	1329
Corner-clamp	J. Wilding	631,352	Aug. 22	3015	683	88	1368
Corner-piece for knockdown structures	C. H. Boeck	617,698	Jan. 10	1591	359	86	329
Corner-strip for protecting angles of plastered walls. Metallic	W. F. Parker	624,076	May 2	234	50	87	746
Cornet	J. Heald	620,450	Feb. 28	2996	685	86	1446
Cornet	J. J. Neumann	622,820	Apr. 11	1141	264	87	236
Cornet-mute	C. J. Kiefer	623,912	Apr. 25	3173	731	87	666
Cornet-shank	W. H. Horn and C. L. Wain	629,254	July 18	2419	560	88	505
Cornice and gutter. Combined roof	C. A. Manrow	618,797	Jan 31	3662	819	86	776
Corrugating-machine	A. C. Kronquest	637,875	Nov. 28	3527	738, 739	89	1723
Corrugating-machine	C. Traxler	628,564	July 11	1160	272	88	244
Corset	J. C. Andrews	619,112	Feb. 7	601	129	86	928
Corset	M. L. Barcley	638,544	Dec. 5	674	141	89	1994
Corset	R. Cousins	631,620	Aug. 22	3515	791	88	1467
Corset	A. Klein	639,584	Dec. 19	2574	591	89	2407
Corset	D. Kops	631,079	Aug. 15	2535	574	88	1255
Corset	J. C. Mackey	619,590	Feb. 14	1431	330	86	1107
Corset	C. M. Southworth	624,394	May 2	819	184	87	858
Corset	S. H. Tolman	630,134	Aug. 1	761	164	88	874
Corset	M. Tucek	628,372	July 4	792	184	88	152
Corset	J. M. Van Orden	619,851	Feb. 21	1957	444	86	1236
Corset and abdominal belt. Combined	E. Merrillees	639,078	Dec. 12	1623	373	89	2202
Corset and abdominal supporter. Combined	E. A. Ford	617,731	Jan. 17	1654	372	86	362
Corset attachment	C. M. Barnum	622,437	Apr. 4	427	99	87	79
Corset busk and clasp	V. Bovy	621,024	Mar. 14	921	200	86	1692
Corset-busk fastener	A. F. Chesney	633,073	Sept. 12	1604	373	88	2039
Corset-clasp	A. Herr	634,576	Oct. 10	1134	269	89	243
Corset-closure	G. Klemschmidt and L. Kreuder	628,335	July 4	732	169	88	141
Corset-fastener	A. Leeson	624,344	May 2	731	162	87	840
Corset-fastener	S. R. Mills	630,389	Aug. 8	1269	277	88	986
Corset fastening device	E. Teltschik	618,191	Jan. 24	2568	567	86	551
Corset side steel	P. W. Ziegler	626,957	June 13	1391	306	87	1901
Corset-stay	L. Luckhardt	626,916	June 13	1323	291	87	1888

Alphabetical list of inventions—Continued.

Invention.	Name.	No.	Date.	Monthly volume.		Official Gazette.	
				Spec.	Drg.	Vol.	Page.
Corset-stay	M. E. Thompson	639,463	Dec. 19	2365	544	89	2364
Corset steel and clasp	J. H. Hatfield and E. M. Brigham	632,489	Sept. 5	510	116	88	1808
Corset-stiffener	F. Morrison	619,331	Feb. 14	1001	226	86	1026
Cot	W. S. Foster	639,027	Dec. 12	1550	356	89	2188
Cot	A. J. Olds	623,814	Apr. 25	2983	683	87	630
Cot and canopy. Portable folding	S. F. Seely	626,010	May 30	3800	864	87	1517
Cot. Folding	J. Hock	627,061	June 13	1574	344	87	1937
Cot. Folding	A. R. Isaacs	619,485	Feb. 14	1268	290	86	1077
Cot. Folding	J. H. Martindale	633,525	Sept. 19	2481	584	88	2220
Cot. Invalid	B. F. Cargill	629,658	July 25	3167	738, 739	88	672
Cot. Knockdown	D. Holge	634,665	Oct. 10	1283	302	89	273
Cotter-pin	A. R. Anthony	639,337	Dec. 19	2120	488	89	2316
Cotton accumulator and conveyer. Lint-	J. W. Graves	633,996	Oct. 3	29	9, 10	89	9
Cotton, &c. Apparatus for compressing	G. A. Lowry	630,369	Aug. 8	1207	265, 266, 267	88	977
Cotton-beater cover-locking device	J. T. Ward and J. B. Curtis	633,930	Sept. 26	3216	749	88	2380
Cotton-beater safety device	J. T. Ward and J. B. Curtis	631,140	Aug. 15	2631	596	88	1273
Cotton-beater safety locking device	J. O'Connell	639,685	Dec. 19	2770	639	89	2445
Cotton-chopper	W. McGillivray	632,470	Sept. 5	471	107, 108	88	1800
Cotton-chopper	H. D. Wilson and T. J. Smith	633,935	Sept. 26	3223	751	88	2381
Cotton chopper and cultivator	W. H. Ledbetter	624,829	May 9	1624	369	87	1039
Cotton chopper and cultivator. Combined	R. L. Parker	626,816	June 13	1098	247	87	1845
Cotton chopper and harrow. Combined	G. W. and W. H. Taylor	635,205	Oct. 17	2270	529	89	482
Cotton chopper and sider	J. M. Pope	635,348	Oct. 24	2523	587	89	546
Cotton-cleaner	G. Lemoine	631,800	Aug. 29	3859	860	88	1542
Cotton cleaner and conveyer. Seed-	J. W. Graves	633,995	Oct. 3	26	9	89	9
Cotton cleaner and feeder	E. L. Smith	631,030	Aug. 15	2439	553, 554	88	1236
Cotton-compress	W. Brady	636,110	Oct. 31	4047	926	89	858
Cotton-compress	T. J. Griffin. (Reissue)	11,796	Dec. 19	2794	644	89	2451
Cotton-conveyer	R. C. Newell	624,237	May 2	546	116	87	803
Cotton. Device for measuring fiber length of	W. E. Stainback	622,725	Apr. 11	981	228	87	206
Cotton-distributer	G. Ogden	633,479	Sept. 19	2405	566, 567	88	2206
Cotton-elevator	C. McIntosh	628,485	July 11	1001	233	88	213
Cotton elevator and cleaner	O. L. Reeves	636,557	Nov. 7	574	127	89	1037
Cotton-gin	E. R. Barber	619,116	Feb. 7	605	129	86	929
Cotton-gin	J. W. Graves	633,993	Oct. 3	20	5, 6, 7	89	7
Cotton-gin	J. W. Graves	633,994	Oct. 3	23	78	89	8
Cotton-gin	A. D. Thomas	632,685	Sept. 5	901	209, 210	88	1888
Cotton-gin grid	M. D. Daroovala	617,229	Jan. 3	698	163	86	136
Cotton-gin roller	D. S. Chapin	637,922	Nov. 28	3606	756	89	1740
Cotton-gin-saw cleaner	J. C. Mapes	638,732	Dec. 12	1043	234	89	2089
Cotton-handling apparatus. Pneumatic	D. E. Jones	636,670	Nov. 7	797	177	89	1083
Cotton-holder and waste-receptacle	A. W. Browne and G. L. Harrison	620,222	Feb. 28	2611	593	86	1372
Cotton-opener evening device	F. H. L. James	631,795	Aug. 29	3853	858, 859	88	1541
Cotton-openers. Grid-bar for	A. T. Atherton	630,022	Aug. 1	554	122	88	833
Cotton-opening machines. Evening mechanism for	J. W. Nasmith	630,087	Aug. 1	685	147	88	858
Cotton or beet chopper	G. W. Rice	628,491	July 11	1009	235	88	215
Cotton or other machines. Sliver-receiving can for	J. T. Ward and J. B. Curtis	637,436	Nov. 21	2339	505	89	1429
Cotton-pickers. Portable shade for	M. M. Downer	620,109	Feb. 28	2413	545, 546	86	1335
Cotton-picker's spring spine-supporter	S. C. Potts	637,156	Nov. 14	1795	385	89	1305
Cotton-picking machine	C. J. Luce	631,373	Aug. 22	3055	692	88	1375
Cotton-press	F. L. Dyer	629,345	July 25	2090	600, 601	88	558
Cotton-press	E. M. Ivens	623,020	Apr. 11	1506	349, 350	87	307
Cotton-press	C. E. Mallett. (Reissue)	11,769	Sept. 5	905	210, 211, 212	88	1888
Cotton-press	M. Swenson	639,950	Dec. 26	3250	745	89	2559
Cotton-press filling-box	O. A. Thorsen and J. E. Shutt	634,839	Oct. 10	1586	372	89	332
Cotton-press. Roller	C. L. Bessonette	627,743	June 27	2856	625	87	2227
Cotton-sack carrier	W. G. Hamilton	618,087	Jan. 24	2356	526	86	511
Cotton to openers. Apparatus for supplying	J. Corrigan	618,784	Jan. 31	3635	812	86	771
Cotton, wool, &c. Press for	G. A. Lowry	630,370	Aug. 8	1216	267, 268	88	978
Cotton, wool, hair, &c. Press for	G. A. Lowry	630,368	Aug. 8	1206	265	88	977
Couch	E. M. Bonnell	630,967	Aug. 15	2321	528	88	1213
Couch	C. H. Grawitz	634,212	Oct. 3	430	110	89	89
Couch	A. G. Hofstatter	619,306	Feb. 14	966	219	86	1018
Couch and bath-tub. Combined	S. J. Smith	630,416	Aug. 8	1330	298, 299	88	996
Couch and chair. Combined	H. H. Pattee	629,204	July 18	2337	542	88	490
Couch. Box-	J. Hoey	629,034	July 18	2026	473	88	432
Couch. Convertible	J. Moran	638,978	Dec. 12	1463	335, 336	89	2172
Couch. Folding	G. Brown	623,593	Apr. 25	2579	590	87	552
Couch-leg	F. J. Seng	638,764	Dec. 12	1089	244	89	2100
Counter and shelving. Movable combination	D. Hunt	617,021	Jan. 3	302	66, 67	86	60
Counterbalance for tools. Liquid	C. W. Bolsinger	629,101	July 18	2158	501	88	458
Counter-cutting machine	E. H. Sawin and B. T. Putnam	618,586	Jan. 31	3294	731, 732	86	703
Counter. Registering-	C. H. Veeder	634,073	Oct. 3	152	39	89	34
Counter-rolling machine	J. H. Stewart	637,533	Nov. 21	2513	545	89	1462
Counter. Sales-	W. C. Huss	625,396	May 23	2627	597	87	1272
Counting and detecting apparatus	F. L. Wilder	630,578	Aug. 8	1634	366	88	1055
Counting apparatus	R. Bürk	627,975	July 4	30	6	88	8

Alphabetical list of inventions—Continued.

Invention.	Name.	No.	Date.	Monthly volume. Spec.	Monthly volume. Dr'g.	Official Gazette. Vol.	Official Gazette. Page.
Coupling: *See* Air-brake hose-coupling. Animal-coupling. Belt-coupling. Bicycle-coupling. Brake-pipe coupling. Cable-coupling. Car-coupling. Car air-pipe coupling. Car and air-brake coupling. Carriage-coupling. Compression-coupling. Electric or other wire coupling. Faucet-coupling. Friction-coupling. Hame and trace coupling. Hose-coupling. Insulated pipe-coupling. Locomotive hinged coupling. Locomotive-tender coupling. Pilot-coupling. Pipe-coupling. Pipe or tube coupling. Pipe, tube, or casing coupling. Pole-coupling. Pole or thill coupling. Pulley and shaft coupling. Pump-coupling. Railway-coupling. Railway-carriage coupling. Rod-coupling. Rod and cable coupling. Shaft-coupling. Spring-coupling. Stovepipe-coupling. Tap-coupling. Thill-coupling. Thill or pole coupling. Tool-coupling. Train-pipe coupling. Two-way pivotal coupling. Union-coupling. Vehicle-coupling. Wagon-coupling. Well-drilling-tool coupling. Whiffletree-coupling. Yoke-coupling. Yoke harness-coupling.							
Coupling	E. Haber	630,882	Aug. 15	2155	490	88	1181
Coupling	J. Missong	619,203	Feb. 7	772	167	86	963
Coupling and antirattler. Combined	J. M. Bergold	619,271	Feb. 14	903	204	86	1005
Coupling and antirattler. Combination	J. N. Wilson	639,200	Dec. 12	1857	428	89	2247
Coupling and draft-cushioning device	M. Fink	626,154	May 30	4102	935	87	1571
Coupling for railway-wagons, &c	K. C. Mészáros	626,007	May 30	3793	863	87	1516
Coupling for ropes, cords, &c	F. Pretzel	619,343	Feb. 14	1017	229	86	1028
Coupling-pin	T. S. Kilgore	620,934	Mar. 14	738	163	86	1658
Coupon cutting and dating machine	J. Ranz	621,704	Mar. 21	2152	479, 480	86	1945
Cover	F. B. Read	628,354	July 4	761	176	88	147
Cover and detachable pad	H. S. King	630,717	Aug. 8	1870	422	88	1100
Cover. Cooking-utensil	J. B. Gurney	626,808	June 13	1085	244	87	1842
Cover. Cooking-utensil	F. E. Morrison	637,643	Nov. 21	3083	637	89	1614
Cover fastener. Vessel	R. W. Crocker	639,534	Dec. 19	2478	572	89	2387
Cover for cooking utensils. Detachable	J. L. Clark	632,307	Sept. 5	187	42	88	1744
Cover for vessels. Reservoir	B. T. Johnson, Jr.	619,313	Feb. 14	979	221	86	1021
Cover handle. Vessel	O. Klotz	629,793	Aug. 1	57	15	88	732
Cover holder. Pot or kettle	S. Baker	624,443	May 9	911	205	87	900
Cover. Vessel	J. W. Day and B. L. Johnson	619,145	Feb. 7	663	143	86	941
Covering for bodies impelled through water	J. O'Hara	632,738	Sept. 12	1008	234	88	1920
Covering-machine	L. Vining	628,049	July 4	164	35	88	34
Cow-hitching device	W. H. Knapp	618,038	Jan. 17	2242	499	86	475
Cow-tail holder	F. A. Crocker	624,461	May 9	942	211	87	905
Cowl	L. H. Honigbaum	617,745	Jan. 17	1678	378	86	366
Cracker-machine	H. H. F. Danger	621,040	Mar. 14	965	209, 210	86	1700
Cradle	L. F. Cutten	638,913	Dec. 12	1348	308	89	2150
Cradle	L. C. McCarty	618,946	Feb. 7	274	58	86	863
Cradle	D. E. Morris	634,147	Oct. 3	307	78	89	65
Cradle and carriage. Portable	M. I. Knapp	630,241	Aug. 1	946	207, 208	88	909
Cradle. Self-rocking	J. Josefkowicz	630,894	Aug. 15	2181	495, 496	88	1186
Crane	W. I. Babcock	627,890	June 27	3116	682	87	2278
Crane	A. Grafton	623,779	Apr. 25	2918	667	87	617
Crane	H. Sawyer	617,051	Jan. 3	377	92	86	72
Crane	W. C. Westaway	630,016	Aug. 1	543	120, 121	88	831
Crane. Electric	W. R. and J. Thomas	619,100	Feb. 7	570	122	86	920
Crane. Electric	J. F. Tracy	629,936	Aug. 1	379	82	88	798
Crane or conveyer. Traveling	A. R. Goldie	626,276	June 6	103	27	87	1634
Crane. Overhead traveling	T. R., Sr., and W. H. Morgan	628,832	July 11	1663	386, 387, 388	88	345
Crane structure	W. I. Babcock and J. W. Seaver	625,135	May 16	2164	491	87	1158
Crane. Traveling	A. B. Tenney	620,088	Feb. 21	2363	536	86	1311
Cranes. Lubricating device for overhead traveling	C. L. Taylor	624,994	May 16	1910	428, 429	87	1112
Crank	E. W. Gragert	619,166	Feb. 7	709	152	86	950
Crank	C. L. Kindsfatter	639,059	Dec. 12	1594	366	89	2196
Crank-and-pitman connection	T. A. Galt	617,957	Jan. 17	2093	469	86	449
Crank-fastening	L. Seymour	627,601	June 27	2603	573	87	2177
Crank-hanger. Adjustable	A. Levedahl	620,241	Feb. 28	2642	602	86	1378
Crank-pin-turning machine	E. B. Sainsbury	632,150	Aug. 29	4489	1011	88	1668
Crate	F. B. Baugh	633,279	Sept. 19	2039	479	88	2135
Crate. Berry	G. I. Feit	620,024	Feb. 21	2255	511	86	1291
Crate. Berry-box	E. L. Walker	625,525	May 23	2849	649	87	1316
Crate. Bicycle	H. G. Streat	629,049	July 18	2057	478	88	438
Crate. Breeding and operating	E. L. and W. T. Speer and E. E. Hyatt.	625,277	May 16	2411	546	87	1204
Crate. Collapsible	W. Shadinger	619,093	Feb. 7	558	118	86	919
Crate. Collapsible	G. Simpson and J. Hillegas	639,833	Dec. 26	3045	700	89	2519

Alphabetical list of inventions—Continued.

Invention.	Name.	No.	Date.	Monthly volume. Spec.	Monthly volume. Dr'g.	Official Gazette. Vol.	Official Gazette. Page.
Crate. Collapsible poultry-	J. A. Stauffer	627,148	June 20	1724	378, 379	87	1986
Crate. Egg-	R. E. L. Gray	617,011	Jan. 3	285	63	86	57
Crate. Egg-preserving	B. H. Shearer and W. O. Lewis	621,162	Mar. 14	1174	255	86	1741
Crate. Folding	C. E. Freckleton	624,320	May 2	696	154	87	834
Crate. Folding	G. A. Jones	634,733	Oct. 10	1411	333	89	298
Crate. Folding	Z. B. Taylor and O. W. Moore	628,500	July 11	1024	238, 239	88	218
Crate. Folding	S. B. Thompson	623,849	Apr. 25	3060	704	87	644
Crate. Folding shipping-	G. I. Remer	638,473	Dec. 5	553	114	89	1972
Crate for demijohns, &c	G. W. Banker	619,265	Feb. 14	892	200	86	1002
Crate. Knockdown	A. Donnelly	628,304	July 4	669	156, 157	88	129
Crate. Knockdown	G. T. McGlaughlin	620,607	Mar. 7	102	20	86	1522
Crate. Knockdown and collapsible	W. R. Ambrose	637,061	Nov. 14	1601	346	89	1269
Crate or case. Shipping	J. M. Gilbert	626,419	June 6	377	88	87	1687
Crate or coop. Folding	L. W. Copeland	632,644	Sept. 5	783	181, 182	88	1862
Crate or coop. Folding	C. E. Rogers	634,031	Oct. 3	87	23	89	21
Crate. Shipping-	A. E. Hinman	631,075	Aug. 15	2529	573	88	1254
Crate. Shipping-	L. Test and H. M. Jones	618,448	Jan. 31	3048	674	86	656
Crating or packing can-stock. Apparatus for	W. H. Sealy	630,936	Aug. 15	2249	513	88	1200
Crayon-holder	R. T. Yates	639,643	Dec. 19	2683	615	89	2430
Crayon-sharpener	J. J. Fraser	625,878	May 30	3516	799	87	1463
Cream-pasteurizing machine	W. J. Stewart	629,097	July 18	2149	499, 500	88	457
Cream-separator	E. P. Doty	624,194	May 2	456	96	87	787
Cream-separator	A. E. Dulmage	633,437	Sept. 19	2342	552	88	2194
Cream-separator	R. H. Emry	639,675	Dec. 19	2746	630	89	2441
Cream-separator	J. H. Morris	631,875	Aug. 29	3982	890	88	1568
Cream-separator	J. A. Rosback	624,100	May 2	287	59	87	756
Cream-separator	J. F. Schroeter	625,067	May 16	2037	458	87	1135
Cream-separator Centrifugal	J. H. Ayers	637,758	Nov. 28	3300	689	89	1675
Cream-separator. Centrifugal	E. E. Bell	633,562	Sept. 26	2572	603	88	2253
Cream-separator. Centrifugal	J. J. Berrigan	630,168	Aug. 1	824	178	88	885
Cream-separator. Centrifugal	C. F. Bertram	624,424	May 2	872	196	87	868
Cream-separator. Centrifugal	W. C. and R. A. Hartmann	636,383	Nov. 7	266	59,60	89	975
Cream-separator. Centrifugal	W. Johnson	619,487	Feb. 14	1270	291	86	1077
Cream-separator. Centrifugal	M. Johnsrud	632,464	Sept. 5	462	104	88	1798
Cream-separator. Centrifugal	C. L. Kneeland and W. C. Hartmann	621,306	Mar. 14	1429	316	86	1791
Cream-separator. Centrifugal	A. H. Reid	621,706	Mar. 21	2157	480	86	1946
Cream-separator. Centrifugal	A. H. Reid	622,393	Apr. 4	328	75,76	87	62
Cream-separator. Centrifugal	E. G. N. Salenius	621,619	Mar. 21	1988	443	86	1911
Cream-separator. Centrifugal	E. G. N. Salenius	628,725	July 11	1466	340	88	305
Cream-separator. Centrifugal	D. T. Sharples	620,722	Mar. 7	338	69	86	1567
Cream-separator. Centrifugal	N. G. Williams	624,596	May 9	1197	269, 270	87	954
Cream-separators. Liner for centrifugal	E. J. Kneeland	635,488	Oct. 24	2840	649	89	609
Creamer. Centrifugal	J. J. Berrigan	637,070	Nov. 14	1619	350, 351	89	1273
Creamers. Liner for centrifugal	S. E. Jarvis	635,780	Oct. 31	3383	781	89	728
Creamery or cheese-factory appliance	F. W. Moldenhauer	624,234	May 2	540	115	87	802
Creaming-can	H. S. Hunt	619,753	Feb. 21	1759	403	86	1196
Creaming-can	G. Laube and J. B. Kinney	631,218	Aug. 15	2762	625	88	1300
Creaming-can	W. H. Loy and J. M. Groff	630,247	Aug. 1	956	209	88	911
Creel-frame	J. P. Cronin	626,974	June 13	1414	312, 313	87	1907
Cresting	A. G. Souther	633,622	Sept. 26	2701	628	88	2276
Crib attachment	A. M. Bartlett	633,112	Sept. 19	1719	403	88	2072
Crib attachment	F. M. Cobb	620,069	Feb. 21	2331	530	86	1305
Crib or cradle. Folding	S. E. and H. Oakes	628,350	July 4	755	174, 175	88	145
Crib safety-guard. Child's-	M. R. Bacon	633,353	Sept. 19	2192	515	88	2165
Crop-thinner	C. H. Giles	637,382	Nov. 21	2248	483	89	1410
Cross-tie. Metallic	E. U. Stewart	628,215	July 4	474	114	88	95
Cross-tie. Metallic	J. D. Wilson	634,656	Oct. 10	1265	299	89	270
Crown-loop	M. J. Chilstad	618,838	Feb. 7	36	7	86	810
Crucible-furnace	E. P. Marsh and E. Millett	619,973	Feb. 21	2161	490, 491	86	1273
Crusher: *See* Clod-crusher. Feed-crusher. Ice-crusher. Ore-crusher. Rock-crusher. Rock or ore crusher. Seed-crusher. Stone, ore, &c., crusher.							
Crusher-gages. Making	H. C. L. Holden	632,462	Sept. 5	460	104	88	1798
Crusher-plate	H. J. Wessinger	624,589	May 9	1181	265	87	952
Crushing and grinding mill	J. M. Dyer	635,011	Oct. 17	1891	450	89	409
Crushing and pulverizing machine	W. B. Folsom	637,076	Nov. 14	1628	352	89	1274
Crushing-machine	C. F. Hinman	621,754	Mar. 21	2257	509	86	1964
Crushing-machine	C. F. Hinman	621,755	Mar. 21	2262	510	86	1965
Crushing mills. Feed-controlling mechanism for grain-	W. H. Gregory	621,073	Mar. 14	1010	222	86	1708
Crushing or grinding mill	R. Ellin	624,774	May 9	1507	342, 343	87	1016
Crushing or grinding mill	F. Hamachek	616,921	Jan. 3	109	24,25	86	23
Crust-crushing instrument	H. P. L. F. Chaussinand	632,444	Sept. 5	426	94	88	1790
Crutch	R. Schwarting	619,235	Feb. 7	826	181	86	974
Crutches, canes, &c. Tip for	J. S. Hawley, Jr	624,207	May 2	482	103	87	792
Cryptographic chart	W. C. Van Horn	637,049	Nov. 14	1572	339	89	1264
Crystalline substances. Process of and apparatus for refining or crystallizing soluble	C. W. Miles	633,206	Sept. 19	1890	445, 446	88	2106
Crystallizing apparatus	L. Hirt	625,031	May 16	1974	441	87	1124
Cucumber-picker	W. W. Robinson	628,854	July 11	1700	396	88	351
Cue. Parlor-game	H. C. Lehmann	637,877	Nov. 28	3532	740	89	1724
Cue-support	J. Miller	635,569	Oct. 24	2983	684	89	636
Cue-tip	H. Braun	621,787	Mar. 28	2321	521	86	1991
Cuff attachment	D. J. Gue	618,569	Jan. 31	3266	725	86	697

Alphabetical list of inventions—Continued.

Invention.	Name.	No.	Date.	Monthly volume. Spec.	Monthly volume. Dr'g.	Official Gazette. Vol.	Official Gazette. Page.
Cuff-fastener	F. A. Bagley	617,304	Jan. 3	839	195	86	165
Cuff-fastener	C. M. Gidley	634,167	Oct. 3	342	87	89	71
Cuff-holder	J. M. Crowe	617,924	Jan. 17	2044	457	86	439
Cuff-holder	H. C. and J. N. Guertin	634,133	Oct. 3	283	69	89	59
Cuff-holder	J. Jungbauer	630,237	Aug. 1	937	204	88	907
Cuff-supporter	P. E. Daniels	636,765	Nov. 14	1029	220	89	1156
Culinary device for frying or roasting meats	R. M. Austin	638,860	Dec. 12	1250	283	89	2129
Culinary utensil	R. A. Longfield and J. Kline	628,717	July 11	1456	338	88	303
Culinary vessel	C. Halstead	634,557	Oct 10	1107	262	89	238
Culinary vessel. Self-draining	H. J. Carden	629,742	July 25	3321	775	88	701
Cultivating and harvesting. Power-driven mechanism for	R. Romaine	629,385	July 25	2661	618, 619, 620	88	574
Cultivating-machine. Combination	J. H. Zinn	636,609	Nov. 7	670	147	89	1058
Cultivating the ground and forming tobacco-hills. Machine for	S. C. Cole	631,619	Aug. 22	3513	791	88	1467
Cultivating-tool	G. W. Shailer	631,728	Aug. 22	3719	834	88	1506
Cultivating-tool	W. H. Sharpe	629,475	July 25	2836	658	88	608
Cultivator	S. M. Adams	635,285	Oct. 24	2418	564	89	528
Cultivator	S. L. Allen	619,382	Feb. 14	1088	245, 246	86	1042
Cultivator	W. L. Beall	624,613	May 9	1227	275, 276	87	960
Cultivator	J. A. Bilz	627,637	June 27	2676	587	87	2192
Cultivator	D. S. Blue	628,745	July 11	1506	349	88	314
Cultivator	I. L. Boyer	621,894	Mar. 28	2531	571	86	2032
Cultivator	H. Brockmann, Jr	623,071	Apr. 11	1584	365	87	323
Cultivator	H. Brown	632,639	Sept. 5	774	178	88	1860
Cultivator	W. T. M. Brunnemer	631,415	Aug. 22	3133	710, 711	88	1391
Cultivator	D. G. Burkhart	636,753	Nov. 14	1006	214	89	1152
Cultivator	D. C. Bushnell	627,976	July 4	31	6,7	88	9
Cultivator	J. Caldwell	625,018	May 16	1946	427	87	1119
Cultivator	C. D. Carter	627,048	June 13	1547	338, 339	87	1932
Cultivator	E. Children	626,857	June 13	1191	264	87	1863
Cultivator	E. Children	628,924	July 18	1836	427	88	395
Cultivator	N. Delaney	639,890	Dec. 26	3141	722, 723	89	2536
Cultivator	I. Detheridge	622,996	Apr. 11	1458	336	87	297
Cultivator	J. O. Dunston	619,151	Feb. 7	681	146	86	945
Cultivator	C. M. Durnell	637,747	Nov. 21	3272	682	89	1651
Cultivator	P. Frazier	621,808	Mar. 28	2362	528, 529	86	1999
Cultivator	S. H. Garst	621,649	Mar. 21	2047	456	86	1923
Cultivator	S. H. and D. Garst	629,499	July 25	2889	672, 673	88	618
Cultivator	A. E. Green	639,171	Dec. 12	1788	414	89	2235
Cultivator	F. Gross	627,457	June 20	2322	511	87	2105
Cultivator	J. C. Hastings	629,162	July 18	2266	525	88	478
Cultivator	P. Herrick	618,673	Jan. 31	3451	770	86	734
Cultivator	G. N. Holland	625,167	May 16	2213	502	87	1167
Cultivator	J. Mallon	634,825	Oct. 10	1556	366	89	325
Cultivator	P. W. Mesmer	621,580	Mar. 21	1923	429, 430	86	1898
Cultivator	J. U. G. Morrison and A. A. Kregnes	620,046	Feb. 21	2300	522	86	1299
Cultivator	G. W. Noble	633,033	Sept. 12	1548	359, 360	88	2026
Cultivator	J. H. Pattee	616,961	Jan. 3	182	41	86	36
Cultivator	J. W. Pattisson	622,162	Mar. 28	3025	684	86	2130
Cultivator	F. E. Pearson	633,610	Sept. 26	2679	624	88	2272
Cultivator	M. Posttlethwait	625,353	May 23	2561	582	87	1259
Cultivator	J. W. Ratcliff	616,971	Jan. 3	196	45	86	39
Cultivator	J. E. Rausheck	618,292	Jan. 24	2740	607	86	583
Cultivator	L. P. Rife	633,906	Sept. 26	3181	740, 741	88	2373
Cultivator	C. S. Ruef	625,519	May 23	2841	647, 648	87	1314
Cultivator	A. and M. Sattley	629,875	Aug. 1	230	51	88	765
Cultivator	M. and A. Sattley	623,564	Apr. 25	2522	578, 579, 580	87	542
Cultivator	M. and A. Sattley	628,857	July 11	1705	399	88	352
Cultivator	E. Sawyer	631,444	Aug. 22	3184	723	88	1401
Cultivator	A. H. Shippee	635,002	Oct. 17	1877	446	89	406
Cultivator	J. and P. Sievers	636,572	Nov. 7	607	133, 134	89	1045
Cultivator	B. C. Smith	627,541	June 27	2483	546	87	2154
Cultivator	B. C. Smith	639,782	Dec. 26	2954	680	89	2500
Cultivator	N. O. Starks	616,985	Jan. 3	230	53	86	45
Cultivator	C. Tanner	616,991	Jan. 3	239	55	86	47
Cultivator	W. H. Traphagen	629,727	July 25	3296	768, 769	88	696
Cultivator	W. H. Traphagen	629,729	July 25	3297	769, 770	88	697
Cultivator	W. Wilkins and N. C. Poe	629,639	July 25	3143	732	88	667
Cultivator	A. Wilkinson	630,788	Aug. 8	1986	449	88	1123
Cultivator	J. M. Wright	622,096	Mar. 28	2888	651, 652	86	2102
Cultivator and corn or cotton planter. Combined	G. and F. E. Hoffmann	622,358	Apr. 4	275	63	87	53
Cultivator and handle therefor	G. C. Avery	636,743	Nov. 14	989	211	89	1149
Cultivator and harrow attachment	C. N. Lambert	618,473	Jan. 31	3084	683	86	663
Cultivator and planter. Combined	C. W. McFarland	629,807	Aug. 1	81	20	88	736
Cultivator and potato-digger. Combined	S. K. Vaughan	617,786	Jan. 17	1777	398	86	384
Cultivator and seeder. Combined	R. C. Buckley	623,513	Apr. 25	2423	556	87	524
Cultivator and weeder. Combined	R. H. Berkstresser	639,138	Dec. 12	1734	400	89	2224

Alphabetical list of inventions—Continued.

Invention.	Name.	No.	Date.	Monthly volume.		Official Gazette.	
				Spec.	Dr'g.	Vol.	Page.
Cultivator attachment	W. A. Norton	618,519	Jan. 31	3179	701, 702	86	680
Cultivator attachment	A. G. Perry	626,562	June 6	621	143	87	1735
Cultivator attachment	G. W. Tucker	635,617	Oct. 24	3070	704	89	654
Cultivator attachment	E. C. Welch and A. F. Dickey	622,093	Mar. 28	2884	650	86	2101
Cultivator beet-thinning shoe	F. M. Oeder and J. E. Wright	639,275	Dec. 19	1993	459	89	2291
Cultivator. Circular tree-	G. G. Guenther	620,546	Feb. 28	3175	727	86	1481
Cultivator. Convertible and reversible	D. C. Voss	639,116	Dec. 12	1703	393	89	2218
Cultivator. Corn-	R. L. Alexander	617,455	Jan. 10	1142	260	86	240
Cultivator. Corn-	J. M. Clark	631,498	Aug. 22	3294	749	88	1422
Cultivator. Corn-	E. Nordstrom	628,588	July 11	1199	280	88	251
Cultivator. Disk	J. C. Smith	621,865	Mar. 28	2469	551, 552	86	2021
Cultivator draft connection. Wheeled-	E. Children	628,648	July 11	1342	312, 313	88	279
Cultivator. Double-row	P. Jarvis	619,183	Feb. 7	736	159, 160	86	955
Cultivator-fender. Adjustable	G. L. Cornell	626,222	June 6	14	4	87	1617
Cultivator for cranberry-vines	H. Hatter	621,527	Mar. 21	1833	407	86	1880
Cultivator. Garden-	J. T. Clark	635,659	Oct. 24	3139	723	89	667
Cultivator. Hand-	C. M. Durnell	625,386	May 23	2611	594	87	1269
Cultivator implement	S. L. Allen	618,553	Jan. 31	3237	718, 719	86	692
Cultivator. Listed-corn	J. M. Tague	639,111	Dec. 12	1691	391	89	2216
Cultivator or grain-drill tooth	T. J. Howe, D. J. Ames, and H. N. Labare.	637,390	Nov. 21	2260	487	89	1412
Cultivator planter attachment	T. Collier	635,299	Oct. 24	2444	568, 569	89	532
Cultivator. Riding-	J. H. Pattec	616,960	Jan. 3	180	41	86	36
Cultivator. Rotary-disk	R. M. Slaton	622,553	Apr. 4	669	156	87	127
Cultivator-shovel	J. T. Smith	620,618	Mar. 7	125	25	86	1526
Cultivator-shovel clamp	R. H. Avery	617,217	Jan. 3	675	157	86	131
Cultivator-shovels. Automatic spring-trip for	W. Sobey	631,232	Aug. 15	2781	630	88	1304
Cultivator spring-trip	C. R. Harless	634,558	Oct. 10	1108	262	89	239
Cultivator spring-trip	J. P. Moore	620,717	Mar. 7	331	68	86	1566
Cultivator. Straddle-row	S. D. Poole	638,671	Dec. 5	900	198, 199	89	2041
Cultivator. Sugar-beet	C. P. Jensen and J. H. Rowe	633,267	Sept. 19	2020	474, 475	88	2131
Cultivator. Swivel-action	F. M. Higgs	638,119	Nov. 28	4003	843	89	1816
Cultivator-teeth. Adjustable clamp for	W. L. Beall	633,333	Sept. 19	2156	505	88	2158
Cultivator-tooth	W. L. Beall	617,711	Jan. 17	1618	363	86	354
Cultivator-tooth	T. A. Peden	631,473	Aug. 22	3241	735	88	1412
Cultivator-tooth	W. T. Young	623,645	Apr. 25	2662	609	87	566
Cultivator. Two-row	W. L. Caldwell	619,386	Feb. 14	1096	247	86	1044
Cultivator. Two-row disk	J. A. Patterson	635,581	Oct. 24	3000	688, 689	89	639
Cultivator. Two-row wheel-	J. H. Dempster	627,986	July 4	50	10	88	12
Cultivator. Two-wheeled tongueless riding-	A. H. Maxwell	624,063	May 2	204	45	87	742
Cultivator. Wheel-	E. Haiman and C. Bishop	622,348	Apr. 4	259	59	87	49
Cultivator. Wheel-	J. S. Norris	636,167	Oct. 31	4147	951	89	878
Cultivator. Wheel-	H. C. Young. (Reissue)	11,708	Jan. 10	1600	361	86	331
Cultivator wheel. Cotton-	W. W. Holloway	635,685	Oct. 24	3189	734	89	676
Cultivator. Wheeled	A. V. Ryder	633,160	Sept. 19	1814	426, 427	88	2090
Culvert	W. A. Nichols	625,795	May 30	3342	759	87	1430
Cup: *See* Dope-cup. Grease-cup. Invalid-cup. Oil-cup.							
Cup-polishing apparatus	O. F. Pira	620,250	Feb. 28	2662	607	86	1383
Cupboard and dumb-waiter. Combined cellar-	G. W. Mentzer	628,828	July 11	1656	384	88	344
Cupboard-catch	F. B. Mallory	627,432	June 20	2278	502	87	2097
Cupboard or refrigerator. Window	V. F. Lutz	626,917	June 13	1324	291	87	1889
Cupel-machine	A. C. Calkins	637,081	Nov. 14	1634	358	89	1276
Cupola-furnace	H. E. Machell	620,339	Feb. 28	2820	643	86	1413
Cupola-furnace	M. Zippler	638,541	Dec. 5	669	140	89	1993
Cupric-sulfate solutions. Refining	O. Hofmann	634,751	Oct. 10	1442	339	89	303
Curb-bit	W. H. Aughey	636,099	Oct. 31	4031	922	89	854
Curbing	F. W. Arnold	640,075	Dec. 26	3482	798	89	2607
Curd-agitator	A. Robinson	632,367	Sept. 5	282	66	88	1763
Curd-cutter	J. E. Cayouette	631,557	Aug. 22	3408	770	88	1446
Curette	V. May	626,625	June 6	718	166	87	1754
Curette	E. W. Peery	622,386	Apr. 4	318	73	87	60
Curling-iron	S. Nolan	618,184	Jan. 24	2557	565	86	548
Curling iron. Hair-	B. Gray	628,580	July 11	1189	278	88	249
Curling-iron heater	V. E. Bernson	623,067	Apr. 11	1578	364	87	322
Curling-iron heater	J. R. Hoit	630,979	Aug. 15	2346	535	88	1217
Curling-tongs heater	J. C. Forsberg	636,785	Nov. 14	1072	229	89	1165
Currency binding and stamping machine	C. S. Ellis	624,915	May 16	1775	400, 401	87	1086
Current generator. Alternating-	T. H. Hicks	638,679	Dec. 5	939	209	89	2051
Current-motor	W. Turner	625,220	May 16	2297	523, 524	87	1184
Current-motor	W. Turner	635,208	Oct. 17	2275	530	89	483
Current motor. Alternating-	M. Déri	630,489	Aug. 8	1467	328	88	1023
Current motor. Alternating-	A. Heyland	624,652	May 9	1286	287, 288	87	971
Current motor. Alternating-	E. C. Newcomb	618,578	Jan. 31	3282	728	86	701
Current motor. Alternating-	E. W. Rice, Jr., and C. P. Steinmetz	620,965	Mar. 14	807	178	86	1671
Current motor. Alternating-	C. P. Steinmetz	630,419	Aug. 8	1344	301	88	998
Current motor and operating same. Direct-	B. G. Lamme	620,353	Feb. 28	2810	641	86	1411
Current motor. Fluid-	W. Borrman	617,874	Jan. 17	1945	436	86	418
Current motor. Self-starting alternating-	C. P. Steinmetz and E. J. Berg	620,988	Mar. 14	854	187	86	1680
Current motors. Arrangement for starting alternating-	G. Ferraris and R. Arno	629,897	Aug. 1	275	62	88	774
Currents. System of distributing alternating	E. G. P. Oelschläger	637,819	Nov. 28	3412	713	89	1699

Alphabetical list of inventions—Continued.

Invention.	Name.	No.	Date.	Monthly volume. Spec.	Monthly volume. Dr'g.	Official Gazette. Vol.	Official Gazette. Page.
Current system of distribution. Combined alternating and continuous	M. Déri	630,491	Aug. 8	1471	329	88	1023
Current transformer. Multiphase-	E. L. K. F. Kablenberg	620,144	Feb. 28	2475	562	86	1348
Current-wheel	T. J. Vance	618,148	Jan. 24	2478	551	86	535
Currents. Controlling bigb-tension	H. G. O'Neill	628,026	July 4	121	24	88	25
Currents in conduits, pipes, &c. Means for regulating fluid-	R. Goll	628,459	July 11	950	222	88	202
Currents. Method of and apparatus for varying the number of phases of polypbase	H. A. Rowland	628,358	July 4	767	178 / 179	88	148
Currents. Metbod of and means for deriving polyphase	H. A. Wagner	617,842	Jan. 17	1882	420	86	406
Currycomb	M. Campbell	629,768	Aug. 1	14	4	88	724
Currycomb	J. A. C. Grant, T. J. Overn, and I. M. House.	630,686	Aug. 8	1824	411	88	1090
Currycomb	J. A. Hackenberg	622,347	Apr. 4	257	59	87	49
Curryconb	J. A. Heany	627,459	June 20	2324	512	87	2105
Currycomb	O. S. Hopkins, L. Rusb, and M. R. Davids.	634,458	Oct 10	922	220	89	201
Currycomb	N. L. Lodahl	632,730	Sept. 12	999	232	88	1919
Curtain	A. A. Frankl	636,787	Nov. 14	1074	229	89	1166
Curtain and curtain-rod bracket. Roller	H. P. Roberts	631,674	Aug. 22	3605	813	88	1486
Curtain bracket. Window-	D. A. Wilderson	638,826	Dec. 12	1193	267	89	2119
Curtain construction. Flexible-	A. S. Spaulding	634,072	Oct. 3	149	39	89	34
Curtain-fixture	W. Beitner	635,991	Oct. 31	3800	874	89	809
Curtain-fixture	L. Bugg	630,028	Aug. 1	570	125	88	836
Curtain-fixture	H. S. Davis	633,815	Sept. 26	3022	702	88	2342
Curtain-fixture	P. G. Emery	636,123	Oct. 31	4077	932 / 933	89	864
Curtain-fixture	T. A. Esser	632,343	Sept. 5	242	58	88	1755
Curtain-fixture	G. H. Forsyth	625,753	May 30	3259	739	87	1414
Curtain-fixture	E. Gabel	626,830	June 13	1126	251	87	1849
Curtain-fixture	R. E. Jobnson	623,162	Apr. 18	1801	412	87	379
Curtain-fixture	F. L. Meyer	622,508	Apr. 4	571	134	87	108
Curtain-fixture	R. E. Pbillips	624,860	May 9	1677	380	87	1049
Curtain-fixture	W. C. Schramm	625,422	May 23	2676	609	87	1281
Curtain-fixture	A. J. Slack	633,048	Sept. 12	1567	364	88	2030
Curtain-fixture	H. M. Stevenson	618,746	Jan. 31	3579	799	86	760
Curtain-fixture	W. H. Stockman	639,789	Dec. 26	2971	683	89	2505
Curtain-fixture	L. Strickler	624,570	May 9	1157	259	87	947
Curtain-fixture	C. C. Tbompson	622,298	Apr. 4	185	40	87	84
Curtain fixture. Window-	T. J. Bagley and J. Felix	627,891	June 27	3117	683	87	2278
Curtain-hanger	W. W. Hauenstein	625,503	May 23	2815	641	87	1308
Curtain-hanging apparatus	P. G. Goldsmitb	620,648	Mar. 7	198	41	86	1540
Curtain-holding device	G. H. Davis	617,321	Jan. 10	874	205	86	190
Curtain-bolding device	G. H. Davis	629,550	July 25	2976	695	88	635
Curtain-operating device	L. B. Smyser	634,189	Oct. 3	379	97	89	78
Curtain or portière pole ring and fastening	E. J. Force	618,005	Jan. 17	2173	485	86	462
Curtain-pin	S. F. Stenner	640,043	Dec. 26	3422	785	89	2595
Curtain-pole	J. F. Gebbardt	638,179	Nov. 28	4111	868	89	1838
Curtain-pole	M. A. Harter	630,348	Aug. 8	1174	257	88	970
Curtain-pole	I. Paul	619,214	Feb. 7	788	172	86	966
Curtain-pole	G. A. Seely	627,942	June 27	3213	704	87	2301
Curtain-pole	J. M. Willbur	638,488	Dec. 5	579	120	89	1977
Curtain-pole and ring therefor	J. W. Leslie	631,726	Aug. 22	3716	834	88	1505
Curtain-pole and socket	J. W. Leslie	632,420	Sept. 5	376	86	88	1780
Curtain-pole bracket	S. Ascher	620,268	Feb. 28	2690	617	86	1388
Curtain-pole banger and sbade-roller bolder. Combined	G. Bell	618,492	Jan. 31	3128	692	86	671
Curtain pole. Window-	B. B. Taylor	617,203	Jan. 3	648	152	86	127
Curtain-ring	S. O. Brown	635,295	Oct. 24	2434	567	89	530
Curtain-ring	J. W. Leslie	617,585	Jan. 10	1381	313	86	288
Curtain-ring	J. L. Sturtevant	621,175	Mar. 14	1196	260	86	1746
Curtain ring and bolder	H. S. Brewington	618,557	Jan. 31	3246	721	86	694
Curtain-rod	J. Berbecker	629,187	July 18	2306	535	88	486
Curtain-rod bracket	F. Harris	628,199	July 4	450	106	88	90
Curtain-rod fixture	J. O. Clark	633,569	Sept. 26	2585	606	88	2256
Curtain rod or fixture. Sasb-	F. Perry	639,609	Dec. 19	2612	600	89	2415
Curtain. Roll-	L. J. Blades	638,314	Dec. 5	239	50	89	1912
Curtain-roller	J. W. Morpetb	636,443	Nov. 7	358	81	89	993
Curtain-roller-supporting bracket	E. J. Thacker	625,429	May 23	2689	613	87	1284
Curtain-stay	E. G. Smitb	631,908	Aug. 29	4029	902	88	1576
Curtain-stretcber	H. A. Book	632,867	Sept. 12	1247	285	88	1970
Curtain-stretcher	H. Hickman	622,356	Apr. 4	272	62	87	52
Curtain-stretcher bar	W. A. Mayr	617,813	Jan. 17	1831	408	86	396
Curtain stretcber. Lace-	J. Klemenz	636,812	Nov. 14	1114	238	89	1174
Curtain-support	B. Bannon	627,041	June 13	1535	335	87	1930
Curtain. Window-	W. S. Bartholomew and P. G. Emery.	624,735	May 9	1432	322 / 323	87	1001
Curtains, &c. Device for draping	F. R. Kübnel and C. L. E. Busse	631,401	Aug. 22	3109	704	88	1386
Curtains to tbeir supporting-rings. Means for fastening	E. S. Browett	621,213	Mar. 14	1257	278	86	1759
Cushion: *See* Air-cusbion. Spring-cushion. Billiard-cusbion. Stair-cusbion. Bottle-case cusbion.							
Cushion-making apparatus	E. F. Braisher	639,511	Dec. 19	2437	563	89	2379
Cusbion or bassock	N. F. Hurdel	623,548	Apr. 25	2495	573	87	536
Cushion-tufting apparatus	A. Freschl	618,030	Jan. 17	2222	495 / 496	86	471
Cuspidor	W. G. Holloway and G.W. Reichard	617,878	Jan. 17	1954	437	86	420
Cuspidor	R. H. Jobnson	637,799	Nov. 28	3366	705	89	1690
Cuspidor	W. I. Reynolds	636,290	Nov. 7	115	25	89	945
Cuspidor	J. Scbeminger	635,081	Oct. 17	2036	480	89	439
Cuspidor	R. E. Weimer and A. H. Kirkland	618,306	Jan. 24	2767	613	86	589
Cuspidor	W. W. Wyatt and H. Bruyn	629,841	Aug. 1	161	38	88	752

Alphabetical list of inventions—Continued.

Invention.	Name.	No.	Date.	Monthly volume. Spec.	Monthly volume. Dr'g.	Official Gazette. Vol.	Official Gazette. Page.
Cuspidor. Adjustable	J. C. Meader	637,882	Nov. 28	3539	742	89	1726
Cuspidor. Pocket-	I. B. Hodgerney	630,225	Aug. 1	911	200	88	902
Cut-off and separator. Rain-water	P. D. Evans	629,988	Aug. 1	486	106	88	819
Cut-out	E. Ellicott	620,111	Feb. 28	2416	546	86	1336
Cut-out plug	A. Johnston	628,180	July 4	420	99	88	85
Cut-out. Thermal	C. P. Steinmetz	636,578	Nov. 7	618	136	89	1047
Cutlery. Table-	F. B. Rising	624,380	May 2	796	178	87	853
Cutter:							
See Annular cutter. Axle-cutter. Band-cutter. Bandage-cutter. Boiler-tube cutter. Bog-cutter. Bread-cutter. Buttonhole-cutter. Cheese-cutter. Cigar-cutter. Cigar-band cutter. Cigar-tip cutter. Cloth-cutter. Corn-cutter. Curd-cutter. Ensilage-cutter. Feed-cutter. Flue-cutter. Fruit or vegetable cutter. Gage-cutter. Grass-cutter. Hair-cutter. Ice-cutter. Lemon-cutter. Meat-cutter. Meat or vegetable cutter. Paper-cutter. Pie or cake cutter. Potato-cutter. Roll-holder cutter. Root-cutter. Rotary cutter. Shade-cutter. Stalk-cutter. Stamp-cutter. Straw or feed cutter. Thread-cutter. Tobacco-cutter. Tube-cutter. Twine-cutter. Vegetable-cutter. Washer-cutter. Weed-cutter.							
Cutter	B. A. De Costa	619,397	Feb. 14	1110	251	86	1046
Cutter-bar	M. Viskochil	628,873	July 11	1734	405	88	357
Cutter for floor-cloths, &c	L. H. Geisendorff and A. M. Maguire	625,550	May 23	2899	659	87	1326
Cutter-head	C. Anderson	632,618	Sept. 5	735	169	88	1852
Cutter-head	W. H. Chaffee	616,898	Jan. 3	61	12	86	14
Cutter-head	W. L. Field	630,040	Aug. 1	594	130	88	841
Cutter-head	C. F. Overmyer	628,841	July 11	1676	391	88	347
Cutter-head	S. J. Schimer	629,276	July 18	2451	568, 569	88	512
Cutter-head bit-gage	S. J. Shimer	625,707	May 23	3161	718	87	1377
Cutter-head. Trapezoidal	S. J. Shimer	630,749	Aug. 8	1917	432, 433	88	1109
Cutter setting-gage	S. S. Farney	620,760	Mar. 7	421	86	86	1583
Cutter-stock	A. W. Terrell	618,301	Jan. 24	2759	611	86	587
Cutters. Device for holding circular	E. G. Hoffmann	624,490	May 9	1005	226	87	916
Cutting and folding machine	M. Spitzer	618,016	Jan. 17	2192	490, 491	86	466
Cutting and grinding mill	J. S. Newlin	640,149	Dec. 26	3609	830	89	2633
Cutting and tenoning stock. Machine for	C. H. Ellingwood	633,185	Sept. 19	1853	436, 437	88	2098
Cutting apparatus	M. P. M. Veilgaard and T. McDonald.	619,520	Feb. 14	1327	304, 305	86	1090
Cutting device	C. H. Worthen	630,019	Aug. 1	549	121	88	832
Cutting, folding, and pasting machine	E. P. Sheldon	630,937	Aug. 15	2251	513, 514, 515	88	1200
Cutting-machine	J. J. Rigney	638,065	Nov. 28	3868	814	89	1790
Cutting-machine	E. Southworth	629,824	Aug. 1	115	28	88	743
Cutting machine. Double-	A. J. Sackett	617,885	Jan. 17	1964	439	86	422
Cutting machine. Oval-	L. Marchand	618,889	Feb. 7	126	27	86	829
Cutting or slicing machine	A. A. Sunne and L. C. Olson	624,991	May 16	1907	428	87	1111
Cutting purposes. Stranded wire for	G. L'Hoir and J. B. Deham	640,139	Dec. 26	3592	826	89	2630
Cutting square holes. Tool for	N. Rosenberg	618,585	Jan. 31	3293	731	86	703
Cutting-stick and retaining device therefor	A. Houghtlin	628,466	July 11	969	224	88	207
Cutting-tool	G. M. Grant	639,377	Dec. 19	2210	511	89	2335
Cutting-tool	H. Hill	622,625	Apr. 4	787	183	87	150
Cutting-tool	H. S. Newcomb	628,280	July 4	617	146	88	119
Cyanid filter-tank	P. Argall	617,497	Jan. 10	1205	274, 275	86	254
Cyanids. Making	A. Frank and N. Caro	623,709	Apr. 25	2771	------	87	588
Cycle, &c	C. W. Atkinson	619,655	Feb. 14	1566	357	86	1133
Cycle	J. W. Baird	619,656	Feb. 14	1568	357	86	1133
Cycle	T. J. Cookson	632,102	Aug. 29	4396	987	88	1648
Cycle	C. Lippens	626,706	June 13	899	204	87	1807
Cycle	M. Matthews	634,062	Oct. 3	131	33, 34	89	30
Cycle	M. Pedersen	634,585	Oct. 10	1148	272	89	245
Cycle back-fork end	A. H. Rogers and H. W. Patrick	623,830	Apr. 25	3016	693	87	636
Cycle brake and motor	B. H. and N. R. Coursey	635,664	Oct. 24	3148	725, 726	89	668
Cycle-chain-adjusting device	H. Ganswindt	632,711	Sept. 12	964	223	88	1912
Cycle-chain adjustment	O. Pihlfeldt	625,199	May 16	2262	515	87	1177
Cycle-chain cleaner	J. C. Conn	617,224	Jan. 3	687	159	86	134
Cycle-chains. Revolving guard for	C. M. Brownell	622,442	Apr. 4	435	101	87	81
Cycle. Chainless	A. W. Delane	628,453	July 11	942	219	88	201
Cycle crank-axle	A. Jerome	623,373	Apr. 18	2177	500	87	454
Cycle crank-shaft and bearing	M. L. Wilcox	627,946	June 27	3219	705	87	2302
Cycle dress-guard. Lady's	M. Diehl	622,997	Apr. 11	1459	337	87	297
Cycle driving and steering mechanism	W. E. Brock	627,680	June 27	2742	601	87	2204
Cycle driving-gear	J. R. K. Law	623,323	Apr. 18	2088	479	87	437
Cycle driving-gear	W. H. Wakfer	626,642	June 6	760	174	87	1761
Cycle driving mechanism	H. Buchner	629,765	Aug. 1	11	4	88	723
Cycle driving mechanism	W. Lane and A. Doney	628,585	July 11	1194	279	88	250
Cycle driving mechanism	J. T. Pedersën	619,498	Feb. 14	1291	296	86	1082
Cycle driving mechanism	J. Resch	625,604	May 23	2982	677, 678	87	1342
Cycle driving mechanism	H. E. Shepard	622,085	Mar. 28	2864	645	86	2097

Alphabetical list of inventions—Continued.

Invention.	Name.	No.	Date.	Monthly volume.		Official Gazette.	
				Spec.	Dr'g.	Vol.	Page.
Cycle driving mechanism	A. P. Stephens	629,177	July 18	2290	532, 533	88	482
Cycle driving mechanism	A. P. Stephens	629,178	July 18	2294	533	88	483
Cycle driving-wheel	W. H. Chapman	620,737	Mar. 7	372	76	86	1574
Cycle-frame	J. MacKenzie	620,787	Mar. 7	466	96	86	1593
Cycle-frame brazeless joint	H. S. Rainforth	622,537	Apr. 4	641	150	87	122
Cycle-frame protector	A. R. Denbigh	629,667	July 25	3181	742	88	675
Cycle-frames. Brazeless joint for	J. V. Pugh	621,282	Mar. 14	1388	307, 308	86	1783
Cycle-framings. Brazeless joint for	W. Fraser	619,556	Feb. 14	1379	317	86	1098
Cycle-gear	T. H. Williams	628,135	July 4	337	80, 81	88	68
Cycle handle-bar	J. W. Deans	617,565	Jan. 10	1347	303	86	281
Cycle handle-bar	C. Ehling	617,500	Jan. 10	1210	275	86	255
Cycle handle-bar	F. W. Lusebrink	620,242	Feb. 28	2643	602	86	1378
Cycle handle-bar	A. W. Waters	627,163	June 20	1754	385	87	1992
Cycle-hanger	E. Gradlmiller	626,535	June 6	579	134	87	1726
Cycle. Ice-	G. J. Dietrich, J. Hufnagel, and J. Wolf.	639,672	Dec. 19	2741	629	89	2440
Cycle-inflator. Automatic	M. D. Compton	621,326	Mar. 21	1476	327, 328	86	1813
Cycle-lock	J. D. Amenábar	636,740	Nov. 14	985	210	89	1147
Cycle-lock	S. Schädle	623,184	Apr. 18	1838	421	87	385
Cycle locking device	F. Villiers-Stead	637,433	Nov. 21	2336	504	89	1428
Cycle. Motor-	A. S. Krotz	621,684	Mar. 21	2124	473	86	1939
Cycle, motor-car, or other frames, &c. Junction of	J. H. Kirk and J. W. Jeffs	628,476	July 11	985	228	88	210
Cycle mud and dress guard. Combined	R. W. Hearnden	618,939	Feb. 7	237	54	86	850
Cycle mud-guard	W. Behrend	621,441	Mar. 21	1663	368	86	1848
Cycle mud-guard	A. Thym	635,614	Oct. 24	3061	702	89	651
Cycle or like frames. Connecting-bracket for	E. Schürhoff	636,698	Nov. 7	847	188	89	1094
Cycle or other road vehicle	J. R. Heath	622,044	Mar. 28	2804	632	86	2085
Cycle or other wheeled vehicle	J. Huck	622,477	Apr. 4	522	123	87	99
Cycle-pedal	M. Pedersen	637,657	Nov. 21	3109	644	89	1618
Cycle propelling mechanism	C. Maynard and E. Frederick	633,204	Sept. 19	1886	444, 445	88	2105
Cycle-rack	J. M. Pyott, Jr	619,344	Feb. 14	1017	229	86	1029
Cycle rear-fork end	A. Jerome	622,006	Mar. 28	2741	619	86	2073
Cycle-saddle	M. Pedersen	618,613	Jan. 31	3338	742	86	711
Cycle-saddle and support	A. J. Morison	630,912	Aug. 15	2212	504	88	1192
Cycle-saddle support	W. B. Wilberforce	617,000	Jan. 3	262	59	86	53
Cycle seat and handle-bar fastening attachment	E. H. Chappuis	625,020	May 16	1952	437	87	1120
Cycle seat or saddle support	P. R. Gulden	632,564	Sept. 5	656	152	88	1836
Cycle speed-changing gear	L. Stilmant	634,278	Oct. 3	581	143, 144	89	116
Cycle-speeding machine	A. E. Grosset	629,746	July 25	3330	777, 778	88	703
Cycle. Spring-	E. Harnett	634,340	Oct. 3	715	170	89	143
Cycle-stand	H. W. Tomlinson	622,642	Apr. 4	833	192	87	158
Cycle steering apparatus	R. C. Ayton	633,063	Sept. 12	1587	369	88	2034
Cycle steering-fork	O. Barnish, Jr	623,507	Apr. 25	2412	553	87	521
Cycle steering mechanism	A. P. Stephens	629,179	July 18	2296	533	88	483
Cycle-support	W. Wendler, Jr	623,298	Apr. 18	2043	469	87	427
Cycle-support	C. Witte and H. M. Luick	626,849	June 13	1174	261	87	1859
Cycle. Water-	J. J. McClimont	620,795	Mar. 7	477	99	86	1595
Cycle wheel-hubs. Manufacture of	R. S. Courtman	639,532	Dec. 19	2475	571	89	2387
Cycles. Attaching inflating-pumps to	R. Reid	630,561	Aug. 8	1605	359	88	1049
Cycles. Coin-freed holder or stand for	A. C. Rice	620,361	Feb. 28	2855	653	86	1420
Cycles. Means for holding	H. A. Ivatt	621,819	Mar. 28	2388	533	86	2003
Cycles. Mechanism for assisting in propulsion of	G. B. H. Austin	633,943	Sept. 26	3232	753	88	2383
Cycles. Variable driving-gear for	J. N. Carey	617,637	Jan. 10	1475	336	86	306
Cyclist's cartridge	B. Behr	621,553	Mar. 21	1888	418	86	1891
Cyclometer	J. E. Bean	632,332	Sept. 5	227	53	88	1752
Cyclometer	G. T. Brown	634,610	Oct. 10	1187	281, 282	89	253
Cyclometer	A. A. Leuchter	628,340	July 4	740	171, 172	88	142
Cyclometer	F. P. Prindle	640,025	Dec. 26	3382	775	89	2587
Cyclometer-case	A. F. Rockwell	638,401	Dec. 5	411	86	89	1944
Cylinder drier. Rotary-	C. M. Kemp	630,059	Aug. 1	629	138	88	848
Cylinder. Headed	W. E. Hill	630,607	Aug. 8	1685	379	88	1065
Cylinder-lock	W. E. Parker	623,287	Apr. 18	2025	465	87	424
Cylinder-lock	H. G. Voight	624,411	May 2	848	191	87	864
Cylinder-lock	H. G. Voight	629,630	July 25	3125	727	88	664
Cylindrical blanks. Machine for tapering	J. A. McGregor	620,955	Mar. 14	779	170, 171	86	1666
Dam	G. L. Cudner	629,028	July 18	2017	469	88	430
Dam or revetment	G. S. Zanetti	627,375	June 20	2158	475	87	2074
Dampening apparatus	W. O'Rourke	623,257	Apr. 18	1964	448	87	412
Dampening-machine	M. E. Wendell and T. S. Wiles. (Reissue.)	11,727	Mar. 21	2304	518	86	1973
Damper	A. Borden	623,873	Apr. 25	3099	714	87	651
Damper	H. J. Noyes	633,890	Sept. 26	3152	732	88	2367
Damper	H. M. Powers	619,342	Feb. 14	1016	229	86	1028
Damper-actuating device	J. P. Stearns	620,375	Feb. 28	2878	659	86	1424
Damper and valve regulator. Automatic	F. J. Sprague	637,175	Nov. 14	1833	392, 393	89	1312
Damper. Automatic	T. C. Hatch	622,851	Apr. 11	1206	280	87	248
Damper. Automatic	E. V. Rice	619,346	Feb. 14	1022	230	86	1029
Damper. Fireplace-	J. A. Kennedy	624,049	May 2	181	39	87	737
Damper for furnaces, stoves, &c	F. A. Magee	637,271	Nov. 21	2017	432, 433	89	1363
Damper for heating and ventilating systems. Automatic	C. W. Rogers	631,753	Aug. 22	3758	843	88	1513
Damper lock. Stove-	T. F. Fallon	629,347	July 25	2598	602	88	559
Damper mechanism for furnaces. Time	M. I. Hain	632,939	Sept. 12	1386	320	88	1994
Damper-regulator	S. A. Kellam and J. B. Bischoff	637,125	Nov. 14	1744	374	89	1295
Damper-regulator	L. Reaser	619,993	Feb. 21	2196	499	86	1279

Alphabetical list of inventions—Continued.

Invention.	Name.	No.	Date.	Monthly volume. Spec.	Monthly volume. Dr'g.	Official Gazette. Vol.	Official Gazette. Page.
Damper-regulator	J. C. Toomey	620,380	Feb. 28	2886	660, 661	86	1426
Damper-regulator. Automatic	J. J. Roy	632,371	Sept. 5	290	67,68	88	1764
Damper. Stove-	J. A. Buckwalter	621,599	Mar. 21	1956	437	86	1905
Damper. Stove-	A. Ohnemus	617,256	Jan. 3	751	175	86	148
Damper. Stove-	A. Ohnemus and H. Sanner	623,417	Apr. 18	2255	517	87	471
Damper. Stove draft-	J. H. Reed	617,354	Jan. 10	950	219	86	204
Damper. Stovepipe-	J. L. McSpadden and J. Railton	624,073	May 2	230	48,49	87	746
Damper. Stovepipe-	D. B. Tibbetts	627,156	June 20	1742	382	87	1990
Dampers. Device for operating furnace or stove	F. A. Magee	625,578	May 23	2943	668, 669	87	1334
Dampers. Means for automatically opening or closing furnace or stove	F. P. Canfield	625,640	May 23	3052	694, 695	87	1356
Damping envelops, &c. Apparatus for	C. Kanitz	622,654	Apr. 4	858	196, 197	87	163
Dandy-roll wiping device. Internal	F. Moran and J. Reardon	627,305	June 20	2006	441	87	2044
Darning apparatus	B. Baker	620,531	Feb. 28	3131	717	86	1473
Darning apparatus	H. C. Hamann	627,412	June 20	2243	494	87	2090
Darning-last	I. Jansen	639,989	Dec. 26	3332	763	89	2576
Dash-pot and actuating-cylinder	G. B. Petsche	632,744	Sept. 12	1021	237	88	1923
Dash-rail. Vehicle	J. Leach	632,354	Sept. 5	261	61	88	1758
Date-holder	G. W. Curtis and J. H. Marriott	634,880	Oct. 17	1670	393	89	364
Dead-center	F. L. White	632,386	Sept. 5	324	73	88	1770
Dead-centers. Device for finding	J. J. Gustaf	623,712	Apr. 25	2774	634	87	588
Decorating, &c. Structure for use in	D. Roche	631,406	Aug. 22	3115	706	88	1387
Decoration and ornamentation. Surface	A. E. Meyer	637,636	Nov. 21	3071	635	89	1611
Decorations. Device for making free-hand relief	W. A. Willower	634,786	Oct. 10	1489	351	89	312
Decorative plate, tile, &c	S. Rosenberg	621,851	Mar. 28	2442	544	86	2015
Decorticating-machine	A. Price	638,140	Nov. 28	4039	851	89	1822
Decoy. Knockdown	J. H. Merrill	639,261	Dec. 19	1966	453	89	2284
Dehorner	T. F. Norris	631,123	Aug. 15	2608	589	88	1268
Dehorner. Cattle-	H. Torgerson	636,932	Nov. 14	1358	290	89	1221
Delivering and receiving mechanism for parcels	W. Britain, Jr	625,244	May 16	2349	535	87	1194
Delivery and exhibition apparatus. Coin-freed	A. E. T. Dallmer	618,335	Jan. 24	2811	623, 624	86	596
Delivery apparatus. Coin-controlled package-	J. H. Volkmann	627,161	June 20	1750	384	87	1991
Delivery apparatus. Coin-freed	H. R. Cottrell	637,238	Nov. 21	1968	420, 421	89	1354
Delivery apparatus. Coin-freed	T. De Vos	623,464	Apr. 18	2328	534, 535	87	487
Delivery apparatus. Disk or coin controlled	W. T. Gresset	623,011	Apr. 11	1490	345, 346	87	304
Delivery device. Coin-controlled coupon-	M. J. Gilsdorf	627,496	June 27	2388	525	87	2135
Delivery mechanism. Coin-freed	R. J. Moser and H. W. Phipps	624,844	May 9	1654	373, 374	87	1044
Dental aluminium plates. Method of and apparatus for casting	W. Streetman	633,222	Sept. 19	1942	456, 457	88	2117
Dental appliance	I. S. Kirkwood	618,421	Jan. 31	3006	665	86	649
Dental appliance	C. J. Underwood	626,737	June 13	948	215	87	1816
Dental articulator	T. G. Lewis	619,586	Feb. 14	1425	328	86	1106
Dental articulator	G. B. Snow and A. D. Gritman	629,531	July 25	2952	687	88	631
Dental bib	K. W. Small	636,462	Nov. 7	395	88	89	1000
Dental cabinet	C. S. Bigelow	619,928	Feb. 21	2085	473, 474	86	1259
Dental cement	A. P. Tschirner	636,367	Nov. 7	236	------	89	968
Dental chair	A. P. Gould	634,084	Oct. 3	174	44	89	39
Dental chair	G. T. Higgins	638,197	Nov. 28	4145	874, 875	89	1844
Dental chair	A. J. May	623,026	Apr. 11	1518	351	87	310
Dental chair	F. Ritter	619,226	Feb. 7	808	176	86	970
Dental chair	R. W. Sonnex	625,425	May 23	2680	610	87	1282
Dental chair. Adjustable	G. Holtz	628,244	July 4	527	128	88	105
Dental cuspidor	G. P. Davis	633,125	Sept. 19	1742	411	88	2076
Dental dam	C. C. Allen	629,324	July 25	2553	594	88	551
Dental-dam attachment	M. O. Nelson	628,487	July 11	1005	234	88	214
Dental disk-holder	G. B. Hakins	624,015	May 2	112	24	87	724
Dental disk-holder	G. Sibley	636,571	Nov. 7	606	133	89	1045
Dental disk-holder	G. E. Zinn	621,987	Mar. 28	2714	612	86	2067
Dental engine	H. D. Hermany	622,467	Apr. 4	488	114	87	91
Dental engine	J. Hood and S. H. Reynolds	622,359	Apr. 4	278	64	87	53
Dental engine	F. F. Scholl	621,154	Mar. 14	1161	252	86	1738
Dental engine	C. S. Wardwell	624,137	May 2	354	73	87	767
Dental filling material	C. H. Land	639,585	Dec. 19	2574	591	89	2407
Dental flask	F. Groshans	620,303	Feb. 28	2754	631	86	1401
Dental forceps	M. B. McGhee	632,843	Sept. 12	1210	277	88	1963
Dental-forceps joints. Guard for	J. A. Gholson	617,247	Jan. 3	728	168	86	143
Dental handpiece	J. G. Hailer	623,469	Apr. 18	2338	537	87	489
Dental handpiece	T. L. James	637,338	Nov. 21	2166	466, 467	89	1393
Dental handpiece	F. E. Webster	636,476	Nov. 7	421	93	89	1006
Dental impression-cup	H. D. Osgood	637,480	Nov. 21	2415	524	89	1443
Dental-impression-tray cooling attachment	A. M. Jackson	637,123	Nov. 14	1740	373	89	1295
Dental-instrument fastener	J. W. Ivory	634,732	Oct. 10	1411	333	89	298
Dental matrix-clamp	L. P. Leonard	625,888	May 30	3534	803	87	1466
Dental matrix-retainer	C. F. C. Mehlig	638,973	Dec. 12	1448	331	89	2169
Dental-mirror attachment	W. I. Brigham	634,638	Oct. 10	1229	292	89	262
Dental nerve-broach	W. Vajna	621,873	Mar. 28	2482	554	86	2024
Dental operating-chair	A. F. Bogren	624,425	May 2	872	197	87	869
Dental plates of artificial teeth. Composition of matter for producing enamel for refixing	T. Clarke	618,166	Jan. 24	2525	------	86	543
Dental pliers	H. L. McKellops	638,468	Dec. 5	546	113	89	1971
Dental plugger	R. Blum	618,324	Jan. 24	2792	619	86	593
Dental plugger	H. Case and E. D. Shaw	628,524	July 11	1084	253	88	228
Dental plugger	C. H. Davis	639,536	Dec. 19	2481	573	89	2388
Dental plugger	W. A. Inglehart	635,893	Oct. 31	3615	833	89	773
Dental plugger	T. G. Lewis	625,043	May 16	1990	445	87	1127

Alphabetical list of inventions—Continued.

Invention.	Name.	No.	Date.	Monthly volume. Spec.	Monthly volume. Dr'g.	Official Gazette. Vol.	Official Gazette. Page.
Dental plugger	G. B. Snow	629,621	July 25	3113	724	88	661
Dental plugger. Automatic	H. McLaren	619,832	Feb. 21	1909	436	86	1226
Dental purposes. Alloy for	C. A. R. Samsioe	617,359	Jan. 10	957	------	86	206
Dental root-drill	C. P. Schultz	636,359	Nov. 7	222	49	89	965
Dental saliva-ejector and tongue-depressor	J. E. Nyman	637,970	Nov. 28	3690	776	89	1755
Dental spatula	A. H. Putnam	625,354	May 23	2562	583	87	1259
Dental spittoon	F. Hurlbut	627,617	June 27	2634	579	87	2184
Dental spittoon attachment	F. Hurlbut	626,066	May 30	3903	886	87	1534
Dental tool	A. P. Lantermann	625,401	May 23	2635	599	87	1274
Dental-tool guard	J. A. Gholson	635,244	Oct. 17	2333	545	89	494
Dentist's cotton-box	I. S. Kirkwood	619,188	Feb. 7	748	162	86	958
Dentist's mercury-holder	C. Schweizer	617,777	Jan. 17	1745	391	86	377
Dentist's or jeweler's drawer and tray	T. C. Howlcroft	628,467	July 11	971	224	88	207
Dentists' tools. Cleaning-pad for	J. A. Mitchell	639,595	Dec. 19	2590	595	89	2411
Depository. Mechanical	M. C. Mengis	631,024	Aug. 15	2428	550, 551	88	1234
Derailing-switch	A. L. George	639,373	Dec. 19	2196	508	89	2332
Derailing-switch	A. L. George	639,374	Dec. 19	2200	508	89	2333
Derrick	C. W. Kearns	628,815	July 11	1639	377, 378	88	341
Derrick	E. F. Terry	628,592	July 11	1204	281, 282	88	252
Derrick and excavator	G. W. King	635,048	Oct. 17	1964	465	89	424
Derrick. Crane-	O. Crosby	620,571	Mar. 7	31	6, 7	86	1508
Derrick foot-block	J. J. Smith	634,917	Oct. 17	1726	409	89	375
Derrick. Oil-well	F. R. Shaw	618,297	Jan. 24	2746	609	86	585
Desk	J. E. Crowell	637,325	Nov. 21	2135	460	89	1387
Desk	L. H. McKee	618,180	Jan. 24	2549	563, 564	86	547
Desk	E. M. Mosher	628,346	July 4	751	173	88	144
Desk. Adjustable	J. H. Burton	639,661	Dec. 19	2715	624	89	2436
Desk. Adjustable school-	A. C. Davis	622,647	Apr. 4	844	194	87	160
Desk attachment	D. L. B. Peterson	635,585	Oct. 24	3008	690	89	641
Desk attachment	W. R. Rathvon	628,850	July 11	1694	395	88	350
Desk. Detachable trunk-	W. H. Scully	638,032	Nov. 28	3825	804, 805	89	1781
Desk. Hotel-register	L. J. Reichel	633,156	Sept. 19	1805	425	88	2088
Desk-lid support	E. F. Pooley	629,816	Aug. 1	103	25	88	740
Desk-lid support	E. F. and F. D. Pooley	630,739	Aug. 8	1903	429	88	1106
Desk. School-	S. W. Conwell	634,395	Oct. 3	800	193	89	159
Desk. School-	J. F. Field and C. Prins	620,762	Mar. 7	423	87	86	1584
Desk. Writing-	J. P. L. Nilson	632,924	Sept. 12	1364	314	88	1990
Desulfurizing and dephosphorizing coal or ores	J. W. Kenevel	618,104	Jan. 24	2383	532	86	517
Detachable chair	G. Terlinden	622,297	Apr. 4	184	40	87	34
Detachable handle for frying-pans	J. H. Kendle	625,955	May 30	3654	829	87	1489
Detector: *See* Coin-detector. Ground-detector. Fire-damp detector.							
Detergent	A. Bernhardt	620,407	Feb. 28	2926	------	86	1433
Detergent	A. J. Hill	623,716	Apr. 25	2780	636	87	589
Detergent	J. Mendess	618,208	Jan. 24	2591	------	86	555
Detonating compound	G. M. Hathaway	622,800	Apr. 11	1107	257	87	229
Detonator composition	G. P. Bickford-Smith	634,716	Oct. 10	1380	------	89	292
Developing-tray	A. B. Sheppard	633,912	Sept. 26	3192	743	88	2376
Developing-tray rocker	J. H. Clarke	634,639	Oct. 10	1230	293	89	262
Devulcanizing caoutchouc, india-rubber, &c	A. E. J. V. J. Theilgaard	638,775	Dec. 12	1107	------	89	2103
Diacetyl-indoxyl and making same	B. Heymann	618,096	Jan. 24	2370	------	86	514
Diamond-polishing dop	H. Cooper	631,562	Aug. 22	3417	773	88	1447
Diamonds and their mountings. Gage for	S. Goldner	628,310	July 4	690	160	88	133
Diaper	A. S. Ferris	631,629	Aug. 22	3532	796	88	1471
Diaper	L. J. Wolf	634,281	Oct. 3	584	145	89	117
Diaper. Pinless	A. Schiff	622,272	Apr. 4	130	29	87	28
Diaphragm	H. E. Husted and W. S. Jones	638,246	Dec. 5	83	19	89	1883
Dice-shaker	C. J. Lehmann	632,270	Sept. 5	116	26	88	1730
Dictionary-holder	L. W. Noyes	621,363	Mar. 21	1538	341	86	1825
Die: *See* Brick, tile, or pipe die. Button-setting die. Can-end-forming die. Drawing-die. Embossing-die. Punching-die. Screw-cutting die. Screw-thread-cutting die. Terra-cotta or clay die. Wood-compressing die.							
Die and tap holder	J. Nicklin, Jr	634,269	Oct. 3	566	140	89	113
Die-barbs. Machine for forming	E. Williams	617,622	Jan. 10	1444	329, 330	86	301
Die-box and check-box. Combined	J. T. Hicks	626,278	June 6	110	29	87	1635
Die-box. Reversible	J. T. Hicks	625,952	May 30	3646	828	87	1487
Die-head. Open	H. Kupsch	637,133	Nov. 14	1757	377	89	1298
Die-holder	S. A. North	638,746	Dec. 12	1061	238	89	2093
Die-press	W. E. Hewit	628,626	July 11	1275	296	88	267
Die-press	C. Seybold	633,295	Sept. 19	2067	484	88	2140
Die-press feeding mechansim	E. Tyden	633,170	Sept. 19	1829	430, 431	88	2094
Die-stock	W. H. Wilson	636,309	Nov. 7	141	31	89	950
Dies. Forming	H. F. Blackwell, Jr	630,771	Aug. 8	1955	441	88	1116
Dies. Hydraulic holder for rotating	F. Ecaubert	618,651	Jan. 31	3413	761	86	727
Digester	F. W. Ayer	624,608	May 9	1216	274	87	958
Digester	D. Sullivan	639,791	Dec. 26	2974	684	89	2505
Digester-lining	J. Norton	638,267	Dec. 5	123	28	89	1889
Digger: *See* Post-hole digger. Potato-digger.							
Digger	D. M. Baldwin	626,360	June 6	280	64	87	1668
Digging and harvesting roots of peppermint. Machine for	A. M. Todd	620,198	Feb. 28	2575	585	86	1365
Digging and tamping implement	O. M. Knox	618,469	Jan. 31	3078	682	86	662

Alphabetical list of inventions—Continued.

Invention.	Name.	No.	Date.	Monthly volume.		Official Gazette.	
				Spec.	Drg	Vol.	Page
Digging machine. Vegetable	J. F. Carroll	623,767	Apr. 25	2863	655	87	606
Dinitro-naphthalene and making same. Product from	M. H. Isler	619,181	Feb. 7	733	------	86	955
Dipper-socket	G. W. Knapp	623,319	Apr. 18	2080	476	87	435
Dipping-tank	L. V. Moulton and P. A. Jones	621,934	Mar. 28	2600	586	86	2044
Dipping-vat	W. E. Skinner	625,474	May 23	2759	628	87	1297
Direct-acting engine	E. C. Meissner	637,810	Nov. 28	3381	709	89	1693
Directories, catalogues, &c. Holder for	A. Marks	625,048	May 16	2008	452	87	1130
Disappearing chair	J. J. Egan and A. E. Hook	619,153	Feb. 7	683	466 147	86	945
Disappearing chair	J. J. Egan and A. E. Hook	619,154	Feb. 7	687	147	86	946
Dish-cleaner	C. E. Drake	621,909	Mar. 28	2561	577	86	2038
Dish-cleaner	D. W. Hawkes	631,960	Aug. 29	4124	928	88	1595
Dish-cleaner	W. C. Williams	628,292	July 4	647	151	88	125
Dish-cover. Collapsible fly-proof	E. R. Standfield	638,651	Dec. 5	868	189	89	2033
Dish-cover support or holder	F. E. Hansên	632,348	Sept. 5	251	59, 60	88	1757
Dish-drainer and colander. Combined	C. M. Halvorsen	623,366	Apr. 18	2166	498	87	451
Dish-heater	M. Walsh	619,372	Feb. 14	1065	239	86	1038
Dish-washer	L. B. Hale	618,663	Jan. 31	3437	766	86	731
Dish-washer	M. J. Mendenhall	628,409	July 4	854	200	88	164
Dish-washer	E. W. Sullivan	622,730	Apr. 11	987	229	87	207
Dish washer and drier	R. E. Swartz	620,682	Mar. 7	256	52	86	1552
Dish-washing machine	J. D. Atkinson	635,009	Oct. 17	1888	449	89	408
Dish-washing machine	R. R. Parry and E. Evans	617,599	Jan. 10	1403	318 319	86	292
Dish-washing means	W. I. Law	629,082	July 18	2122	494	88	451
Dishes or trays. Machine for manufacturing	N. E. Brown	621,215	Mar. 14	1260	278 279 280	86	1759
Disinfectants into water-closets, cisterns, &c. Apparatus for automatically feeding	A. C. Monfort	634,649	Oct. 10	1247	296	89	265
Disinfecting	R. H. Reeves	631,228	Aug. 15	2777	------	88	1308
Disinfecting apparatus	J. A. Heany	618,349	Jan. 24	2834	630	86	600
Disinfecting apparatus	C. J. Walz	616,994	Jan. 3	245	56	86	49
Disinfecting apparatus	R. S. West	634,490	Oct. 10	979	234	89	213
Disinfecting appliance	M. Elb	636,027	Oct. 31	3862	887	89	821
Disinfecting by means of formaldehyde	A. Schmidt	630,782	Aug. 8	1973	446	88	1121
Disinfecting composition and making same	J. von Brenner	625,319	May 23	2497	------	87	1247
Disinfecting device	D. N. Hitchcock	634,109	Oct. 3	234	59	89	50
Disinfecting device. Automatic	J. Michel	626,242	June 6	46	11	87	1623
Disinfecting device for water-closets, &c	J. Sommer	639,305	Dec. 19	2053	472	89	2302
Disinfecting or melting snow. Apparatus for applying heat to pavements for	R. N. Stevens	625,711	May 23	3170	719 720	87	1379
Disinfecting waste-receptacle	M. J. Whitehead	639,007	Dec. 12	1525	349	89	2183
Disinfector. Automatic	J. W. Schell	638,390	Sept. 19	2262	533	88	2178
Disinfector for automatically delivering disinfectant to charges of flush-water.	J. L. Wade	634,515	Oct. 10	1022	244	89	222
Disintegrating animal matter. Apparatus for	J. Chase	636,759	Nov. 14	1013	216	89	1153
Disintegrator	E. Kreiss	639,406	Dec. 19	2257	521	89	2343
Disk drill	W. F. Hoyt	626,024	May 30	3834	869	87	1522
Disk drill	W. F. Hoyt	630,353	Aug. 8	1178	259	88	971
Disk drill	W. Stephenson	631,135	Aug. 15	2626	594	88	1272
Disk meter	H. and P. Meinecke	620,791	Mar. 7	471	98	86	1593
Display and register appliance	D. E. Hening	634,619	Oct. 10	1204	285 286	89	256
Display apparatus	H. Altshul	635,030	Oct. 17	1923	457 458	89	415
Display apparatus	A. Klumpp	633,650	Sept. 26	2742	638	88	2284
Display attachment for doors	H. R. Myers	629,805	Aug. 1	77	20	88	736
Display-box	A. M. Hance	619,300	Feb. 14	955	217	86	1016
Display-box	J. H. Weeks	623,054	Apr. 11	1558	360	87	318
Display-box cover	S. J. Lynn	633,522	Sept. 19	2478	583	88	2220
Display-cabinet	H. E. Hutchison	638,393	Dec. 5	395	83	89	1941
Display-cabinet	T. Suters	637,361	Nov. 21	2207	475	89	1402
Display-cabinet for window-shades	H. McGinnis	634,472	Oct. 10	946	225	89	206
Display cabinet. Ribbon-	J. D. Leen	620,464	Feb. 28	3017	690	86	1450
Display cabinet. Ribbon or braid	W. H. Wyman	628,642	July 11	1331	310	88	277
Display-card	B. Cohn	627,392	June 20	2202	484	87	2082
Display-card	B. B. Goldsmith	618,410	Jan. 31	2987	662	86	646
Display-case	C. I. J. Barker	618,160	Jan. 24	2514	558	86	541
Display-case	M. Levit	618,887	Feb. 7	124	27	86	828
Display device	A. P. S. Deem and H. L. Minsker	637,714	Nov. 21	3217	669	89	1640
Display device	D. B. Hart	635,278	Oct. 17	2402	559	89	507
Display-fastener. Swivel	E. K. Chapman and G. B. Rubens	619,671	Feb. 14	1591	364	86	1138
Display-form	G. R. Sharf	639,779	Dec. 26	2951	679	89	2500
Display-forms. Hand for	H. Lyons	620,598	Mar. 7	83	16	86	1519
Display-package	A. H. Burt	623,594	Apr. 25	2581	590	87	553
Display-rack	J. B. Crowder	623,396	Apr. 18	2217	509	87	463
Display-rack	C. W. and B. W. Kirkland and F. C. Feckenscher.	635,325	Oct. 24	2485	577	89	539
Display-rack	A. E. Schultz	632,065	Aug. 29	4328	972 973	88	1634
Display-rack	J. T. Xander	622,316	Apr. 4	208	47	87	40
Display-rack for measuring goods	M. Burton	627,045	June 13	1542	337	87	1931
Display-rack. Necktie	L. J. Burdick	626,782	June 13	1044	234	87	1835
Display-rack. Revolving	M. E. Xander	634,636	Oct. 10	1227	292	89	261
Display-stand	J. McKenzie and W. S. Linsner	624,368	May 2	764	172	87	847
Display-stand	R. L. Peyton	621,130	Mar. 14	1128	244 245	86	1732
Display-stand	C. R. Reid	623,827	Apr. 25	3011	691	87	635
Display-stand for children's headwear	N. C. Boas	621,023	Mar. 14	919	200	86	1692
Display-stand joint	J. Kurz	617,342	Jan. 10	930	214	86	200
Display-stander	A. B. Schanz	623,835	Apr. 25	3081	697	87	638
Display turn-table. Electrically-operated	M. Rolle	630,113	Aug. 1	725	156	88	867
Displayer. Duplicate-design	W. Macdonald	621,835	Mar. 28	2411	538 539	86	2009

Alphabetical list of inventions—Continued.

Invention.	Name.	No.	Date.	Monthly volume.		Official Gazette.	
				Spec.	Dr'g.	Vol.	Page.
Displaying device	A. C. Mills, Jr	623,027	Apr. 11	1519	352	87	310
Displaying device. Shoe	D. S. Betcone	634,387	Oct. 3	790	189	89	156
Displaying form. Goods	L. H. Balwick	620,632	Mar. 7	155	32	86	1532
Displaying photographs, pictures, &c. Device for	B. S. Whitehead	634,156	Oct. 3	319	81	89	67
Displaying ribbons, laces, &c. Cabinet for	G. W. Haddox	637,203	Nov. 14	1893	407	89	1324
Displaying samples of wall-paper. Apparatus for	C. Olsen	623,817	Apr. 25	2988	684	87	631
Distillation of wood, coal, &c. Apparatus for dry	E. Larsen	635,260	Oct. 17	2357	550 551	89	498
Distillation. Preparing wood for dry	F. W. J. F. Schmidt	622,194	Mar. 28	3120		86	2154
Distillatory column	E. Guillaume	631,461	Aug. 22	3215	730 731	88	1407
Distilling and aerating water. Apparatus for	C. M. Kemp	633,851	Sept. 26	3091	718	88	2355
Distilling apparatus	J. D. C. Brown	623,880	Apr. 25	3109	716	87	653
Distilling apparatus	H. E. Smith	621,166	Mar. 14	1180	256	86	1742
Distilling apparatus. Petroleum	F. W. Mann	619,593	Feb. 14	1435	331	86	1107
Distilling metals, &c. Apparatus for	O. Frölich	629,008	July 18	1981	462	88	423
Distilling petroleum, &c. Apparatus for	A. Adiassewich	629,536	July 25	2959	690	88	632
Distributing-terminal	R. S. Donaldson	623,771	Apr. 25	2904	664 665	87	614
Distribution. Method of and means for controlling systems of	C. A. Brown	636,241	Nov. 7	17	4	89	928
Ditch-check. Portable expansion	O. D. Shields	639,301	Dec. 19	2046	470	89	2301
Ditching and grading machine	E. Zielke	618,929	Feb. 7	214	47, 48	86	846
Ditching-machine	W. J. Edwards and T. J. Gray	636,506	Nov. 7	474	106 107 108	89	1016
Ditching-machine	W. W. Hunter	622,228	Apr. 4	53	13	87	14
Ditching-machine	O. R. Smith	638,291	Dec. 5	200	42	89	1904
Ditching-machine	T. Thomas	633,402	Sept. 19	2283	538	88	2182
Ditching-machine. Traction	J. J. Scearcy and O. S. Martin	617,607	Jan. 10	1420	323	86	295
Ditching or excavating machine	W. B. Doddridge	633,977	Sept. 26	3314	771 772	88	2399
Ditching or excavating machine leveler	W. B. Doddridge	634,166	Oct. 3	340	86	89	70
Diver's belt	W. K. Crawford	617,675	Jan. 10	1536	349	86	319
Diving apparatus	J. E. Holland	638,335	Dec. 5	281	58	89	1920
Diving-bell	S. Lake	617,750	Jan. 17	1685	379 380	86	367
Diving purposes. Air-supplying device for	F. A. Hensley	638,392	Dec. 5	393	82	89	1941
Dividers	F. H. De Tray	631,987	Aug. 29	4175	939	88	1604
Dock construction	V. Windett	635,068	Oct. 17	1998	472 473	89	431
Dock-crib	A. D. Garretson	637,726	Nov. 21	3235	673	89	1643
Dock. Dry	W. H. Gartz	634,554	Oct. 10	1095	259 260 261	89	236
Docks, &c. Construction of	J. T. Wilson	635,906	Oct. 31	3633	837 838	89	776
Docks. Device for use in erecting bents of ore	F. R. McQueen	625,791	May 30	3334	757	87	1428
Document-cover	C. H. Pope	629,601	July 25	3073	716	88	654
Documents. Apparatus for examining	H. E. Smith	632,026	Aug. 29	4253	956	88	1620
Doll	R. M. Hunter	634,143	Oct. 3	300	77	89	63
Domestic boiler	F. B. Strong	631,682	Aug. 22	3621	816	88	1489
Domestic heater	W. H. Hubbard, of Jas. N	627,753	June 27	2874	628	87	2233
Domino box and marker. Combination	R. H. Pfeiffer and W. F. Hahn	627,875	June 27	3089	676	87	2272
Door	F. J. Cronin	619,676	Feb. 14	1598	366	86	1140
Door	F. J. Cronin	632,700	Sept. 12	939	218 219	88	1907
Door	J. M. Leaver	636,817	Nov. 14	1120	240	89	1175
Door	J. Nash	635,341	Oct. 24	2508	583	89	544
Door	W. D. Plue	617,120	Jan. 3	500	119	86	98
Door attachment	G. J. Winter	634,491	Oct. 10	980	234	89	213
Door attachment. Swinging	J. H. Whitaker	629,283	July 18	2463	572	88	513
Door. Automatic sliding	D. Schuyler	622,823	Apr. 11	1146	265	87	237
Door-binder	O. H. Kingsland	630,811	Aug. 8	2030	458	88	1133
Door-bolt	A. G. Bayles	629,060	July 18	2070	482	88	441
Door-bolt	E. Burns	621,896	Mar. 28	2533	572	86	2033
Door-bolt	C. W. Sawtelle	635,352	Oct. 24	2530	588	89	548
Door cap. Sliding	E. H. Doane	622,129	Mar. 28	2961	669	86	2117
Door-catch	J. A. Norton and C. J. Hinkley	632,946	Sept. 12	1397	323	88	1997
Door catch and buffer. Combined	P. Chandler	632,043	Aug. 29	4285	963	88	1626
Door-check	V. Beauregard	625,962	May 30	3665	832	87	1491
Door-check	C. O. Case	627,717	June 27	2811	615 616	87	2218
Door-check	N. A. Chase	626,804	June 13	1077	242	87	1841
Door-check	C. F. Hanington	618,505	Jan. 31	3151	696	86	676
Door-check	C. F. Hanington	629,247	July 18	2403	557	88	502
Door-check	C. F. Hanington	629,248	July 18	2406	558	88	503
Door-check	C. F. Hanington	631,074	Aug. 15	2526	573	88	1253
Door-check	C. B. Harkness	628,795	July 11	1604	370	88	334
Door-check	L. Hébert	620,920	Mar. 14	709	157	86	1653
Door-check	L. C. Jensen	624,941	May 16	1831	411	87	1096
Door-check	I. Larsen	617,106	Jan. 3	472	113	86	93
Door-check	J. F. Lash. (Reissue)	11,767	Aug. 29	4630	1043	88	1694
Door-check	C. T. Painter	634,955	Oct. 17	1783	423	89	387
Door-check	J. Speirs	622,556	Apr. 4	673	157	87	128
Door-check	H. G. Voight and M. B. Hurd	632,291	Sept. 5	160	37	88	1739
Door-check	G. W. Warner	634,596	Oct. 10	1163	277	89	249
Door-check	S. Wilson	630,762	Aug. 8	1939	437	88	1113
Door check and closer	E. Cliff	629,494	July 25	2874	668	88	615
Door check and closer	E. Cliff	633,682	Sept. 26	2804	653	88	2296
Door check and closer	A. Damitz	617,479	Jan. 10	1181	269	86	249
Door check and closer	G. W. Fernald	625,495	May 23	2804	638 639	87	1307
Door check and closer	P. J. Lennart	633,015	Sept. 12	1508	351	88	2019
Door check and holder	P. C. Greenawalt	622,620	Apr. 4	780	181	87	149
Door check and spring	H. Bitner	628,916	July 18	1824	424	88	393

Alphabetical list of inventions—Continued.

Invention.	Name.	No.	Date.	Monthly volume.		Official Gazette.	
				Spec.	Drg.	Vol.	Page.
Door check and spring. Combined	J. J. Larimer	639,816	Dec. 26	3021	695	89	2514
Door-check. Automatic	H. H. Fassett	620,761	Mar. 7	422	87	86	1583
Door-check. Liquid	C. O. Case	629,001	July 18	1971	458	88	421
Door-check. Liquid	C. O. Case	632,697	Sept. 12	933	217	88	1906
Door-check. Liquid	A. A. Page	627,828	June 27	3001	656	87	2256
Door check or closer	F. T. Russell	632,149	Aug. 29	4488	1011	88	1667
Door-closer	D. Hogan and F. McMahon	617,159	Jan. 3	576	136	86	113
Door closer and check	J. P. Magney	618,476	Jan. 31	3088	684	86	664
Door-fastener	C. E. Duck	635,530	Oct. 24	2910	664	89	623
Door-fastener	A. D. Fritts	632,009	Aug. 29	4219	949	88	1613
Door-fastener	H. E. Holmes	635,892	Oct. 31	3613	833	89	773
Door-fastener	R. Oehring	634,181	Oct. 3	363	93	89	75
Door-fastener	J. E. Saladé	622,714	Apr. 11	964	223	87	203
Door-fastener	O. E. Wold	628,735	July 11	1489	344	88	311
Door-fastener and burglar-alarm	L. Saladin	619,997	Feb. 21	2200	500, 501	86	1280
Door fastener. Sliding	G. L. Reenstierna	622,167	Mar. 28	3037	687	86	2132
Door-fastening device	W. Doyle, Jr	635,432	Oct. 24	2742	628	89	589
Door fastening. Sliding	M. E. Kanaly	630,610	Aug. 8	1689	380	88	1066
Door-hanger	W. F. Berry	617,553	Jan. 10	1319	297	86	276
Door-hanger	L. A. Climer	633,808	Sept. 26	3008	699	88	2338
Door-hanger	C. A. Ensign	627,991	July 4	63	12	88	14
Door-hanger	A. J. Ives	639,987	Dec. 26	3327	762	89	2575
Door-hanger	F. Larson	629,165	July 18	2271	526	88	479
Door-hanger	W. Louden	626,177	May 30	4145	944	87	1580
Door-hanger	A. Newell	623,030	Apr. 11	1523	353	87	311
Door-hanger	T. C. Prouty	624,246	May 2	559	119	87	806
Door-hanger	T. C. Prouty	624,247	May 2	561	119, 120	87	806
Door-hanger	J. D. Schooler	621,155	Mar. 14	1164	253	86	1739
Door-hanger	S. Thompson	634,041	Oct. 3	101	26	89	24
Door-hanger	G. Wideman	631,515	Aug. 22	3326	755	88	1430
Door-hanger	G. Wideman	635,410	Oct. 24	2693	617	89	580
Door-hanger	T. Wilbern	632,609	Sept. 5	722	167	88	1849
Door hanger and track	R. Oliver	630,733	Aug. 8	1892	427	88	1104
Door hanger. Sliding	A. Doolan	628,910	July 11	1811	422	88	372
Door hanger. Sliding	M. C. Richards	621,710	Mar. 21	2162	481	86	1947
Door-hanger track	L. A. Kirk	617,027	Jan. 3	314	74	86	63
Door-holdback	A. L. Ware	635,621	Oct. 24	3079	707	89	656
Door-holder	W. T. Adams	618,818	Feb. 7	1	1	86	803
Door-holder	O. Beck	632,333	Sept. 5	229	54	88	1752
Door-holder	C. H. Ocumpaugh	629,753	July 25	3346	781	88	706
Door-holder	J. B. Sargent	638,761	Dec. 12	1085	243	89	2099
Door-holder	H. C. Walker	631,885	Aug. 29	3997	894	88	1570
Door holder and check	F. L. Rosentreter	624,546	May 9	1112	250	87	937
Door-holding device	C. W. Sponsel	628,366	July 4	782	182	88	150
Door-hook. Detachable	M. B. Ryan	638,813	Dec. 12	1177	263	89	2116
Door-lock	E. A. Schmertz	638,151	Nov. 28	4046	856	89	1825
Door-lock	C. E. Smith	638,404	Dec. 5	417	87	89	1945
Door-lock. Gravity	J. H. Canaday	621,898	Mar. 28	2536	573	86	2033
Door-lock. Keyless	J. Arner	617,980	Jan. 17	2128	476, 477	86	454
Door-lock. Safety	C. H. Corey	618,844	Feb. 7	46	10	86	813
Door lock. Sliding	W. H. Loomis	623,552	Apr. 25	2499	574	87	537
Door lock. Sliding	A. Newell	633,291	Sept. 19	2058	483	88	2139
Door-mat	C. Kuhn	625,040	May 16	1986	444	87	1126
Door-opener. Electric	A. F. T. Wiechers	629,638	July 25	3141	731, 732	88	666
Door opening and closing device	J. Ohring	636,169	Oct. 31	4149	951, 952	89	879
Door opening, closing, and locking device	E. B. Slonacher	619,626	Feb. 14	1505	343, 344	86	1121
Door opening or closing device	A. P. Lipinski	636,820	Nov. 14	1124	241	89	1175
Door-operating mechanism	H. Rowntree	619,350	Feb. 14	1028	231, 232	86	1030
Door-operating mechanism	L. Stowe	631,883	Aug. 29	3993	893	88	1570
Door or gate closer	H. O. Sparks	618,446	Jan. 31	3045	673	86	655
Door or gate fastener	G. Baldry	616,877	Jan. 3	9	3	86	4
Door or gate hanger	E. D. Bradford	639,345	Dec. 19	2129	490	89	2318
Door or like hook	D. Taylor	616,992	Jan. 3	242	56	86	48
Door-plates or signs. Apparatus for manufacturing	F. R. Stafford	627,542	June 27	2485	546	87	2154
Door. Pressure	T. Shaw	622,546	Apr. 4	654	154	87	124
Door. Screen	W. H. Rogers	638,812	Dec. 12	1176	263	89	2116
Door. Screen or storm	C. R. Moore	620,604	Mar. 7	97	19	86	1521
Door-securer	W. E. and G. N. Crane	633,078	Sept. 12	1613	375	88	2040
Door-securer	O. Kure	633,461	Sept. 19	2380	560	88	2201
Door-sheave. Adjustable	C. Shively	637,677	Nov. 21	3157	654	89	1628
Door, shutter, &c	J. M. Leaver	629,448	July 25	2782	646	88	598
Door. Sliding	J. Ewald	637,104	Nov. 14	1673	363	89	1282
Door. Sliding	W. K. Rairigh	618,617	Jan. 31	3343	743, 744	86	712
Door. Sliding	J. Schlutter	619,794	Feb. 21	1858	424	86	1216
Door-spring	M. C. Bersted	637,319	Nov. 21	2120	457	89	1384
Door-spring	W. M. Thomas	622,567	Apr. 4	688	160	87	131
Door spring and check. Combined	J. Wolf	635,411	Oct. 24	2695	617	89	580
Door-stop	W. V. Bléha	633,979	Sept. 26	3318	772	88	2400
Door-stop	H. Fullwood	624,007	May 2	99	21	87	722
Door stop and catch. Combined	J. R. Lavigueur	621,830	Mar. 28	2403	537	86	2007
Door stop and fastener	J. D. Postle	638,139	Nov. 28	4038	851	89	1822
Door-stop and lock-bar socket. Combined	N. Ashcroft	638,690	Dec. 12	967	215	89	2074
Door. Storm	O. Cobb	617,308	Jan. 3	844	197	86	166
Door. Storm	O. Cobb	617,309	Jan. 3	845	197	86	167
Door. Storm	O. Cobb	619,674	Feb. 14	1595	365	86	1139
Door storm-strip	C. Mitsch	628,278	July 4	613	144	88	118
Door structure. Sliding	A. Newell	633,290	Sept. 19	2055	482	88	2138
Door time-check	C. C. Bielitz	631,034	Aug. 15	2446	555	88	1237

Alphabetical list of inventions—Continued.

Invention.	Name.	No.	Date.	Monthly volume. Spec.	Monthly volume. Dr'g.	Official Gazette. Vol.	Official Gazette. Page.
Doors. Adjustable track for sliding	M. C. Richards	623,035	Apr. 11	1530	354	87	312
Doors. Automatically operating	J. H. Whitaker	632,299	Sept. 5	175	40	88	1742
Doors for excluding rain. Appliance for use upon.	W. H. Taylor	625,713	May 23	3173	720	87	1379
Doors in partially-open positions. Device for securing	S. K. Humphrey	628,808	July 11	1626	376	88	338
Doors. Means for hanging laterally-moving	M. Cossey	632,224	Aug. 29	4624	1042	88	1692
Doors upon their hinges. Device for raising	H. Leidenfrost	621,685	Mar. 21	2126	473	86	1940
Dope-cup	W. A. Downes	626,489	June 6	499	115	87	1710
Double-action jack	E. T. Trefethen	629,020	July 18	2003	466	88	427
Doubler for plates or sheets	J. H. Gill	634,293	Oct. 3	607	149	89	122
Doubling and spinning spindle	G. Kraink	625,039	May 16	1984	443	87	1126
Douche	F. H. Clark	625,382	May 23	2605	593	87	1268
Douche-board	T. A. Johnson and F. G. Kirkscey	621,252	Mar. 14	1329	295	86	1772
Douche-mat	M. M. Hawley	628,582	July 11	1192	278	88	249
Douche. Nasal	C. H. Ingersoll	633,846	Sept. 26	3082	716	88	2353
Dough-board	E. Sargent, Jr	630,746	Aug. 8	1914	432	88	1108
Dough-board	E. Sargent, Jr	638,149	Nov. 28	4051	855	89	1825
Dough for bread. Making	W. S. and C. I. Corby	629,239	July 18	2385		88	500
Dough in manufacturing fermented bread. Machine for making	W. S. and C. I. Corby	639,889	Dec. 26	3138	721, 722	89	2536
Dough into cylindrical shapes. Machine for rolling	E. S. Bright and G. F. Smith	629,983	Aug. 1	471	102	88	816
Dough. Making and working	W. S. and C. I. Corby	640,097	Dec. 26	3519	808	89	2615
Dough making and working machine	W. S. and C. I. Corby	640,096	Dec. 26	3515	807, 808	89	2614
Dough-mixer	C. Cornelius	628,073	July 4	210	48	88	42
Dough-mixer	W. and P. Kryszewski	628,337	July 4	735	170	88	141
Dough-mixing machine	C. A. Conner	630,861	Aug. 15	2120	481	88	1174
Dough or like plastic material. Machine for dividing	C. E. and J. E. Pointon	629,815	Aug. 1	100	24, 25	88	740
Dough-raiser apparatus	L. D. Burlingham	626,000	May 30	3779	861	87	1514
Dough working and shaping machine	W. S. and C. I. Corby. (Reissue)	11,751	June 20	2330	513, 514	87	2107
Dowel for conduit-pipes	S. Carroll	616,895	Jan. 3	56	11	86	13
Downdraft-furnace	O. D. Orvis	633,271	Sept. 19	2025	476, 477	88	2132
Draft and temperature regulator	O. L. Badger	634,257	Oct. 3	541	136	89	109
Draft appliance	G. N. Farnsworth	633,440	Sept. 19	2345	553	88	2194
Draft appliance and tongue-support. Spring-	G. C. Sutton	636,219	Oct. 31	4243	975	89	897
Draft attachment	J. M. Carter	628,883	July 11	1750	409	88	361
Draft connection	J. D. Hubbell	638,015	Nov. 28	3793	797	89	1775
Draft-equalizer	W. F. Aidlott	620,528	Feb. 28	3126	715	86	1472
Draft-equalizer	D. M. Boylan	617,826	Jan. 17	1856	415	86	401
Draft-equalizer	R. O. Burrous and W. M. Brewer	618,779	Jan. 31	3627	811	86	769
Draft-equalizer	G. G. Coonley and D. M. Boylan	625,322	May 23	2502	568	87	1248
Draft-equalizer	G. Dopkins	617,644	Jan. 10	1487	339	86	309
Draft-equalizer	C. Ferm	624,918	May 16	1781	401	87	1087
Draft-equalizer	M. Gentry	630,880	Aug. 15	2152	489	88	1180
Draft-equalizer	C. E. Jackson	639,052	Dec. 12	1579	361	89	2194
Draft-equalizer	J. Jones	631,850	Aug. 29	3940	881	88	1560
Draft-equalizer	J. Kramer	630,362	Aug. 8	1195	262	88	974
Draft-equalizer	A. H. Maxwell and G. C. Dimock	621,837	Mar. 28	2414	539	86	2009
Draft-equalizer	J. W. Miller	637,883	Nov. 28	3540	742	89	1726
Draft-equalizer	J. L. Owens	636,838	Nov. 14	1155	249, 250	89	1182
Draft-equalizer	G. W. Russell	618,736	Jan. 31	3559	794	86	755
Draft-equalizer	F. F. Thill	638,609	Dec. 5	795	172	89	2019
Draft-equalizer	S. H. Tinsman	635,360	Oct. 24	2558	595	89	554
Draft-equalizer	C. K. Tveit	617,374	Jan. 10	994	228	86	213
Draft-excluder	P. Capon	629,711	July 25	3262	761	88	690
Draft-inducer	C. F. Roberts	623,743	Apr. 25	2817	645	87	597
Draft mechanism	P. Brown	632,912	Sept. 12	1345	309	88	1986
Draft-regulating device	L. Hainzl	627,614	June 27	2631	578	87	2183
Draft-rigging	W. Case	640,094	Dec. 26	3511	805, 806	89	2613
Draft-rigging	L. A. Hoerr	636,039	Oct. 31	3882	892	89	825
Draft-rigging	L. A. Hoerr	636,041	Oct. 31	3886	892	89	826
Draft-rigging	J. J. Jones	618,417	Jan. 31	2999	664	86	648
Draft-rigging	G. S. Marshall	622,056	Mar. 28	2822	636	86	2088
Draft-rigging	J. A. Pilcher	616,965	Jan. 3	187	43	86	37
Draft-rigging	J. E. Simons	627,540	June 27	2482	545	87	2153
Draft-rigging	H. Vissering and L. A. Hoerr	626,253	June 6	63	14, 15	87	1626
Draft-rigging	E. C. Washburn	626,881	June 13	1263	277	87	1876
Drafting and measuring tool. Combined	W. C. Day	622,128	Mar. 28	2959	669	86	2116
Drafting apparatus. Adjustable pattern-	F. E. Buddington	618,392	Jan. 31	2945	652	86	638
Drafting apparatus. Garment-	E. E. Cunningham	622,419	Apr. 4	392	90, 91	87	73
Drafting instruments. Adjustable needle-point for.	P. M. Chamberlain	639,845	Dec. 26	3073	706	89	4523
Draftsman's curve	C. A. Klintberg	629,569	July 25	3006	702	88	640
Drag and land-leveler. Combined	L. B. Reeds	621,584	Mar. 21	1928	431	86	1899
Drain. Cellar-	G. O. Miller	628,207	July 4	466	111	88	93
Drains, &c. Apparatus for testing	W. H. Hammond	620,917	Mar. 14	706	155	86	1652
Draining attachment. Vessel-	L. A. Doble	634,808	Oct. 10	1528	360	89	320
Draining-rack	J. N. and J. T. Firth	632,899	Sept. 12	1322	303	88	1982
Draper-slat protector	C. J. and T. T. Luckehe	631,526	Aug. 22	3338	759	88	1432
Draw-bar-attaching means	H. H. Sessions	634,219	Oct. 3	442	114	89	92
Drawer	I. M. Kelly	618,957	Feb. 7	293	63	86	868
Drawer. Cash-	J. Barnett and Z. K. Justice	621,015	Mar. 14	908	197	86	1689
Drawer-centering device	J. M. Hoffmire	628,322	July 4	712	165	88	137
Drawer. Desk or cabinet	W. S. Grange	623,537	Apr. 25	2469	568	87	532
Drawer-equalizer	L. M. Miller	629,698	July 25	3240	754	88	686
Drawer. Furniture-	R. Bankmann and G. Gebhard	630,314	Aug. 8	1091	238	88	952
Drawer-guide	T. Hanson	620,447	Feb. 28	2992	685	86	1445
Drawer guide and support. Combined	F. Macey	625,576	May 23	2940	668	87	1333
Drawer or slide equalizer	O. H. L. Wernicke	632,607	Sept. 5	719	166	88	1849
Drawer-pull	D. W. Tower	634,778	Oct. 10	1477	347, 348	89	310

Alphabetical list of inventions—Continued.

Invention.	Name.	No.	Date.	Monthly volume. Spec.	Monthly volume. Dr'g.	Official Gazette. Vol.	Official Gazette. Page.
Drawers-supporter	G. L. Smith	633,535	Sept. 19	2498	588	88	2223
Drawing and doubling machine. Lap	J. T. Meats	630,813	Aug. 8	2033	459	88	1134
Drawing-die	P. M. Haas	629,501	July 25	2893	673	88	619
Drawing-die	F. L. White	627,557	June 27	2510	552	87	2159
Drawing-die for structural shapes	P. M. Haas	629,502	July 25	2894	673	88	619
Drawing-die mechanism	F. L. White	627,558	June 27	2511	552	87	2159
Drawing-frame	C. Mills aud L. W. Penney	638,975	Dec. 12	1453	331, 332	89	2170
Drawing instrument	A. Holz	629,078	July 18	2115	492	88	450
Drawing machines. Rubbing-apron for worsted-	A. Wolstenholme	637,543	Nov. 21	2533	548	89	1465
Drawing outfit. Mechanical-	G. K. Rich	634,836	Oct. 10	1580	371	89	331
Drawing-roll clearer	C. E. Smith	637,040	Nov. 14	1558	336	89	1262
Dredge	L. W. Bates	634,865	Oct. 17	1642	385, 386, 387	89	360
Dredge	A. J. Severance	623,111	Apr. 11	1690	390	87	342
Dredge-anchor	H. C. Lehman	624,507	May 9	1030	233	87	921
Dredge-boat and jetty. Self-propelling	J. Brown	636,626	Nov. 7	717	157	89	1066
Dredge cutter-head	A. W. Robiuson	637,831	Nov. 28	3432	717, 718	89	1703
Dredge. Elevator-	W. S. Russell	622,637	Apr. 4	823	190	87	156
Dredge for hard or soft mud	J. T. Ford	626,491	June 6	503	117, 118	87	1711
Dredge. Hydraulic	P. Kirk	632,126	Aug. 29	4450	1001, 1002	88	1660
Dredge. Hydraulic	B. H. Muehle	623,804	Apr. 25	2964	678	87	626
Dredge. Hydraulic	B. H. Muehle	635,798	Oct. 31	3414	787	89	734
Dredge or shovel. Steam	G. E. Turner	627,662	June 27	2715	594, 595	87	2199
Dredge. Placer-mining	G. W. Sheppard	621,377	Mar. 21	1560	346	86	1829
Dredge-winder	F. T. Maddrix and W. E. Godman	619,591	Feb. 14	1432	330	86	1107
Dredger	R. A. Perry	638,883	Dec. 12	1296	294, 295	89	2138
Dredger and elevator	A. W. Cram	619,675	Feb. 14	1596	365	86	1139
Dredger for pulverulent material	J. W. Arrott, Jr	633,941	Sept. 26	3230	753	88	2382
Dredger for use in wells	R. M. Downie	639,155	Dec. 12	1759	406, 407	89	2229
Dredging and mining apparatus	M. Steinberg	618,300	Jan. 24	2754	610, 611	86	586
Dredging apparatus	J. Edwards	636,775	Nov. 14	1052	225	89	1161
Dredging apparatus	A. McDougall	619,601	Feb. 14	1451	334	86	1111
Dredging apparatus	W. H. O'Hara	622,527	Apr. 4	623	146, 147	87	118
Dredging apparatus	A. K. Stone	627,660	June 27	2709	594	87	2198
Dredging-bucket	H. J. Kromann	619,581	Feb. 14	1418	326	86	1105
Dredging-machine	J. J. Batman	620,635	Mar. 7	158	33	86	1533
Dredging-machine	S. A. Hill	635,890	Oct. 31	3609	832	89	772
Dredging-machine	A. Thompson	618,143	Jan. 24	2466	549	86	533
Dredging-machine. Hydraulic	H. M. Guild	621,408	Mar. 21	1605	355, 356	86	1838
Dredging-machine. Power	C. L. Cloudman	618,332	Jan. 24	2807	623	86	596
Dredging machinery	L. W. Bates	634,864	Oct. 17	1640	383, 384, 385	89	359
Dredging machinery	E. A. Rix and P. B. Donahoo	635,270	Oct. 17	2376	555	89	502
Dredging. Suction-	F. W. Krogh	617,899	Jan. 17	2000	446	86	429
Dredging vessel	J. Edwards	636,774	Nov. 14	1049	225	89	1161
Dredging-vessel dumping-door	J. Edwards	619,737	Feb. 21	1739	397	86	1192
Dredgings. Means for disposing of	A. G. Rose	637,947	Nov. 28	3648	765, 766	89	1747
Dredgings. Method of disposing of	A. G. Rose	638,145	Nov. 28	4045	853, 854	89	1823
Dress-shield	A. C. Squires	632,883	Sept. 12	1299	298	88	1977
Dress-shield pocket for garments	M. Jacks	639,242	Dec. 19	1941	447	89	2279
Dress or skirt holder	A. Urtel	622,027	Mar. 28	2778	626	86	2080
Dress or skirt protector. Lady's	E. A. Stears	624,114	May 2	318	65	87	761
Dress-protecting edging	E. M. Scheid	619,328	Feb. 14	998	225	86	1025
Dress shield and fastener therefor	G. Roberts	625,062	May 16	2029	457	87	1133
Dress-shield holder	A. F. Beese	621,208	Mar. 14	1248	276	86	1756
Dress-shield safety-fastener	G. Roberts	625,061	May 16	2028	456	87	1133
Dressing-case. Telescoping	D. S. McIntyre	629.012	July 18	1990	463	88	424
Drier: *See* Beet-pulp drier. Boot-drier. Brick-drier. Clothes-drier. Cylinder-drier. Fruit-drier. Grain-drier. Hair-drier. Lumber-drier. Mechanical drier. Rotary drier. Sand-drier. Steam-drier. Wheat-drier.							
Drier	J. Bishop and A. P. Jerguson	634,798	Oct. 10	1513	355	89	317
Drier	F. A. Hetherington	618,095	Jan. 24	2368	528, 529	86	514
Drier	A. G. Manns and C. H. McDowell	629,384	July 25	2659	618	88	573
Drier	W. B. Ruggles	636,852	Nov. 14	1176	255	89	1186
Drier	B. B. Snyder and J. J. Seldner	636,928	Nov. 14	1352	288, 289	89	1219
Drier	M. A. Sutherland	635,158	Oct. 17	2193	512	89	468
Dry-kiln door or closure	R. B. Andrews	626,475	June 6	477	111	87	1706
Drying and heating appliance for laundries, &c	C. C. Barbour	631,061	Aug. 15	2498	565	88	1248
Drying apparatus	J. B. Adt	622,431	Apr. 4	418	96, 97	87	78
Drying apparatus	W. E. Allington	632,508	Sept. 5	539	125	88	1813
Drying apparatus	F. Berner, Jr	617,391	Jan. 10	1031	234	86	220
Drying apparatus	W. J. M. Dobson	617,148	Jan. 3	561	132	86	109
Drying apparatus	W. J. M. Dobson	633,819	Sept. 26	3027	703	88	2343
Drying apparatus	J. Howe	632,943	Sept. 12	1391	321, 322	88	1996

Alphabetical list of inventions—Continued.

Invention.	Name.	No.	Date.	Monthly volume. Spec.	Monthly volume. Dr'g.	Official Gazette. Vol.	Official Gazette. Page.
Drying apparatus	P. V. Viele	626,579	June 6	649	150	87	1741
Drying-kiln	F. D. Cummer	633,122	Sept. 19	1736	408, 409	88	2075
Drying-kiln	F. D. Cummer	635,238	Oct. 17	2323	543	89	492
Drying-kiln	W. B. McHenry	629,202	July 18	2332	541	88	490
Drying-kiln	F. R. Morris	630,392	Aug. 8	1272	278	88	987
Drying-kiln	G. W. Sharer	634,916	Oct. 17	1724	407, 408, 409	89	375
Drying paper, &c. Machine for	J. D. Pickles	636,174	Oct. 31	4163	955	89	882
Drying-rack. Portable	J. H. Slack and W. W. Riley	622,281	Apr. 4	148	34	87	31
Drying-rack. Self-adjusting	J. H. Beaulieu	633,416	Sept. 19	2311	543	88	2188
Drying various materials	F. D. Cummer	634,200	Oct. 3	396	102	89	82
Drying wheat, &c. Apparatus for	J. C. W. Stanley	637,903	Nov. 28	3579	749	89	1734
Drill: *See* Air-drill. Coal-drill. Dental root-drill. Disk drill. Expansion-drill. Grain-drill. Hand-drill. Metal-drill. Miner's drill. Mining-drill. Pneumatic drill. Pneumatic hand-drill. Pneumatic rotary drill. Press-drill. Ratchet-drill. Reciprocating drill. Rock-drill. Seed-drill.							
Drill	H. Aylmer	635,415	Oct. 24	2704	618	89	582
Drill	L. Durkee	627,847	June 27	3038	663, 664	87	2263
Drill	R. E. Farrington and L. D. Copeland.	628,781	July 11	1572	363	88	327
Drill	P. C. Forrester	628,404	July 4	848	199	88	162
Drill	M. M. Moore	634,502	Oct. 10	995	238	89	217
Drill and tap. Combined	W. D. Balcom	624,156	May 2	406	83	87	777
Drill attachment. Hand-brace	W. H. Ames	626,474	June 6	475	111	87	1706
Drill disk attachment	J. C. Lundy	618,110	Jan. 24	2394	534	86	519
Drill engine. Hand-	M. H. Olsen	623,816	Apr. 25	2086	683, 684	87	630
Drill for tapping pipes	H. Mueller	623,614	Apr. 25	2612	596	87	558
Drill or auger	W. D. Baker	623,506	Apr. 25	2410	553	87	521
Drill-socket	A. Walter	624,274	May 2	604	130	87	813
Drilling apparatus	G. E. Diehl	626,488	June 6	498	115	87	1710
Drilling, boring, or shaping machine	W. Fletcher	628,703	July 11	1438	334	88	299
Drilling-machine	R. Binnie	619,125	Feb. 7	623	133	86	933
Drilling-machine	H. H. Cummings	623,140	Apr. 18	1750	403, 404	87	369
Drilling-machine	M. Gans	634,331	Oct. 3	697	167	89	140
Drilling-machine	S. H. Harrington	619,955	Feb. 21	2131	482, 483	86	1268
Drilling-machine	H. Stapelmann	632,594	Sept. 5	698	161	88	1844
Drilling-machine. Automatic	A. D. Groom	633,512	Sept. 19	2458	579	88	2216
Drilling-machine. Portable	H. S. and C. E. Glenn	632,921	Sept. 12	1358	313, 314	88	1989
Drilling-machine. Portable electrical	A. L. Croneau	634,165	Oct. 3	339	86	89	70
Drilling-machine. Vertical	T. C. Beeley	638,695	Dec. 12	975	217	89	2076
Drink-mixer	A. G. Smalley	630,009	Aug. 1	534	118	88	829
Drinking-fountain for fowls	E. Ross	638,402	Dec. 5	412	86	89	1944
Drinking-glass registering attachment	J. Kreutzmann	636,815	Nov. 14	1118	239, 240	89	1174
Driving and medical bit. Combined	J. A. Lemons	617,583	Jan. 10	1378	312	86	287
Driving apparatus	A. E. Norris	638,184	Nov. 28	4120	870, 871	89	1840
Driving forces. Mechanism for increasing effectiveness of	J. Whittington	632,608	Sept. 5	721	166	88	1849
Driving-gear	R. H. Hennemeier	618,174	Jan. 24	2538	561	86	545
Driving mechanism	S. F. Clouser	618,642	Jan. 31	3388	754	86	721
Driving mechanism	H. B. Collins	622,207	Apr. 4	15	3, 4	87	5
Driving mechanism	S. P. Pierson	634,833	Oct. 10	1573	370	89	329
Driving mechanism	V. Sewell	621,160	Mar. 14	1172	255	86	1741
Driving mechanism	F. W. Wunderlich	638,790	Dec. 12	1136	253	89	2108
Driving mechanism. Friction	C. C. de Mocomble	633,881	Sept. 26	3142	729	88	2366
Dropper: *See* Seed-dropper.							
Drug-receptacle. Compartment	G. W. Boyd	625,138	May 16	2168	492	87	1159
Drum	G. Wilken	627,766	June 27	2892	632	87	2236
Drum attachment. Bass-	C. E. Reed	633,488	Sept. 19	2423	570	88	2209
Drum. Heating-	G. T. Hoff	633,003	Sept. 12	1489	346	88	2015
Drum. Heating-	N. Mainz and G. J. Zeller	621,115	Mar. 14	1093	238	86	1725
Drum-stand	U. G. Leedy	624,662	May 9	1304	291	87	975
Drum-tightening device	J. W. Ingalsbe	635,856	Oct. 31	3531	811	89	756
Dumb-bell	J. Robinson	630,741	Aug. 8	1908	430	88	1107
Dumb-waiter	J. E. Lehrman	618,040	Jan. 17	2245	500	86	476
Dumb-waiters. Automatic lock for	G. Seaberg	617,194	Jan. 3	633	148	86	124
Dumping apparatus	G. M. Kennedy	634,643	Oct. 10	1237	294	89	263
Dumping apparatus	B. Sims	640,036	Dec. 26	3412	782	89	2593
Dust-arrester	L. Rössler	632,370	Sept. 5	289	67	88	1764
Dust-collector	A. C. Brantingham	631,734	Aug. 22	3724	836	88	1507
Dust-collector	P. Eberwein	633,954	Sept. 26	3261	761, 762	88	2389
Dust-collector	L. S. Hogeboom	639,387	Dec. 19	2224	515	89	2338
Dust-collector	W. S. Osborne	638,983	Dec. 12	1472	337, 338	89	2174
Dust-collector	C. Robken	618,908	Feb. 7	155	33	86	836
Dust-collector	C. F. Verrell	623,639	Apr. 25	2653	607	87	565
Dust-collector	L. R. Whitney	624,592	May 9	1186	267	87	953
Dust from various materials. Device for separating	W. Sutcliffe	619,912	Feb. 21	2061	467	86	1255
Dust-guard	F. B. Harrison	618,414	Jan. 31	2993	663	86	646
Dust-guard	J. S. Patten	632,142	Aug. 29	4477	1008	88	1665

Alphabetical list of inventions—Continued.

Invention.	Name.	No.	Date.	Monthly volume. Spec.	Monthly volume. Dr'g.	Official Gazette. Vol.	Official Gazette. Page.
Dust-pan	H. O. Brown	633,787	Sept. 26	2980	691	88	2333
Dust-pan	E. E. Rice	626,096	May 30	3962	900	87	1545
Dust-pan	C. W. Richardson	626,843	June 13	1163	259	87	1856
Dust-pan	E. C. Rose	637,162	Nov. 14	1804	387	89	1307
Dust-pan	A. J. Vroman	637,908	Nov. 28	3585	751	89	1735
Dust-pan holder	W. Knight	621,683	Mar. 21	2123	473	86	1939
Dust-pan holder. Detachable	W. A. Anderson	618,048	Jan. 24	2266	505	86	495
Dust-receptacle	O. S. Snyder	622,284	Apr. 4	153	36	87	32
Duster holder. Feather	J. H. Ford	625,752	May 30	3258	739	87	1413
Dusting apparatus	T. Herbst	633,694	Sept. 26	2827	657	88	2302
Dusting-machine	R. F. Emmerich	633,359	Sept. 19	2201	{516 {517	88	2167
Dye and making same. Anthrarufin	R. E. Schmidt	623,220	Apr. 18	1896	------	87	397
Dye and making same. Black	R. Bohn	631,613	Aug. 22	3504	------	88	1466
Dye and making same. Black	H. R. Vidal	622,299	Apr. 4	186	------	87	35
Dye and making same. Black azo	K. Schirmacher	627,783	June 27	2920	------	87	2241
Dye and making same. Black sulfur	F. Fuchs and H. Gussmann	626,897	June 13	1292	------	87	1882
Dye and making same. Black trisazo	C. Ris	619,503	Feb. 14	1300	------	86	1084
Dye and making same. Blue	H. A. Bernthsen and G. F. Jaubert	617,628	Jan. 10	1454	------	86	303
Dye and making same. Blue	R. Bohn	632,170	Aug. 29	4523	------	88	1674
Dye and making same. Blue	K. Heumann	617,651	Jan. 10	1502	------	86	312
Dye and making same. Blue	K. Heumann	619,884	Feb. 21	2019	------	86	1247
Dye and making same. Blue	M. H. Isler	617,686	Jan. 10	1565	------	86	324
Dye and making same. Blue-black	C. O. Müller	628,721	July 11	1462	------	88	305
Dye and making same. Blue-black azo	R. Taggesell	618,963	Feb. 7	301	------	86	869
Dye and making same. Blue-black tetrazo	I. Levinstein and R. Herz	634,009	Oct. 3	52	------	89	14
Dye and making same. Blue-black wool-	C. Oelschlaegel	628,025	July 4	120	------	88	25
Dye and making same. Blue tetrazo	J. Schmid	620,368	Feb. 28	2867	------	86	1422
Dye and making same. Blue tetrazo	J. Schmid	620,369	Feb. 28	2868	------	86	1423
Dye and making same. Bluish	O. Bally	619,115	Feb. 7	605	------	86	929
Dye and making same. Brown tetrazo	I. Levinstein and C. Mensching	622,961	Apr. 11	1404	------	87	286
Dye and making same. Brown-yellow azo	E. König	626,913	June 13	1318	------	87	1888
Dye and making same. Chrysazin	R. E. Schmidt	623,219	Apr. 18	1895	------	87	397
Dye and making same. Cresol-sulfur	H. R. Vidal	629,221	July 18	2361	------	88	495
Dye and making same. Disazo	F. Scholl and A. Hess	626,935	June 13	1353	------	87	1894
Dye and making same. Disazo orange	H. A. Bernthsen and P. Julius	631,611	Aug. 22	3503	------	88	1465
Dye and making same. Gray-black anthraquinone	K. Thun	623,638	Apr. 25	2651	------	87	564
Dye and making same. Green	O. Bally	631,605	Aug. 22	3496	------	88	1465
Dye and making same. Green	A. Herrmann	630,224	Aug. 1	910	------	88	902
Dye and making same. Green-black	O. Bally	619,114	Feb. 7	603	------	86	929
Dye and making same. Green-blue	R. Bohn	633,950	Sept. 26	3249	------	88	2387
Dye and making same. Green trisazo	M. Böniger and J. Lagutt	627,679	June 27	2741	------	87	2204
Dye and making same. Green trisazo	C. Simon	628,233	July 4	509	------	88	102
Dye and making same. Green wool-	H. Weil	623,346	Apr. 18	2128	------	87	445
Dye and making same. Naphthazarin intermediate	R. Bohn	631,614	Aug. 22	3506	------	88	1466
Dye and making same. Orange	H. A. Bernthsen and P. Julius	631,610	Aug. 22	3502	------	88	1465
Dye and making same. Phosphin	P. Julius and G. E. Darier	617,340	Jan. 10	929	------	86	200
Dye and making same. Red	C. O. Müller	631,089	Aug. 15	2552	------	88	1258
Dye and making same. Red-brown monoazo	K. Schirmacher	624,256	May 2	574	------	87	808
Dye and making same. Rhodamin	H. Caro	625,641	May 23	3053	------	87	1356
Dye and making same. Substantive red tetrazo	I. Levinstein and H. Pfeiffer	625,174	May 16	2226	------	87	1170
Dye and making same. Substantive sulfur	H. R. Vidal	630,952	Aug. 15	2282	------	88	1205
Dye and making same. Triphenylmethane	H. R. Vidal	621,393	Mar. 21	1583	------	86	1834
Dye and making same. Yellow	O. Bally	618,000	Jan. 17	2163	------	86	460
Dye and making same. Yellow	R. Bohn	623,069	Apr. 11	1582	------	87	323
Dye and making same. Yellow	M. Ulrich	619,518	Feb. 14	1324	------	86	1089
Dye and making same. Yellow basic disazo	F. Scholl	617,544	Jan. 10	1299	------	86	273
Dye and making same. Yellow wool-	J. Herbabny	627,690	June 27	2761	------	87	2208
Dye. Basic disazo	E. König. (Reissue)	11,714	Jan. 31	3705	------	86	785
Dye. Black	B. Priebs and O. Kaltwasser	628,607	July 11	1223	------	88	256
Dye. Black	B. Priebs and O. Kaltwasser	628,608	July 11	1224	------	88	257
Dye. Black azo	G. Koerner	638,127	Nov. 28	4017	------	89	1819
Dye. Black cotton	C. Ris	636,066	Oct. 31	3972	------	89	843
Dye. Black sulfur	W. H. Claus, A. Rée, and L. Marchlewski.	639,806	Dec. 26	3002	------	89	2511
Dye. Black sulfur	R. Kirchhoff and E. Haussmann	635,168	Oct. 17	2206	------	89	470
Dye. Black sulfur	R. Kirchhoff and E. Haussmann	635,169	Oct. 17	2207	------	89	470
Dye. Black sulfur	H. R. Vidal	618,152	Jan. 24	2487	------	86	536
Dye. Black tetrazo	J. Herbabny and C. Hartmann	639,041	Dec. 12	1564	------	89	2191
Dye. Black trisazo	K. Elbel and J. Oppermann	620,574	Mar. 7	37	------	86	1509
Dye. Blue	R. Bohn	627,896	June 27	3122	------	87	2279
Dye. Blue	K. Heumann	621,652	Mar. 21	2050	------	86	1924
Dye. Blue-black	C. O. Müller	640,010	Dec. 26	3360	------	89	2582
Dye. Blue cotton	R. Demuth	620,428	Feb. 28	2956	------	86	1438
Dye. Blue glycocol	K. Heumann	620,442	Feb. 28	2986	------	86	1445
Dye. Blue safranin	W. Uerfberg and H. Heimann	617,703	Jan. 10	1598	------	86	331
Dye. Bluish-black	B. Priebs and O. Kaltwasser	628,609	July 11	1225	------	88	257
Dye. Brominated	O. Bally	632,621	Sept. 5	741	------	88	1853
Dye. Brown azo	P. Julius	628,814	July 11	1638	------	88	341
Dye. Claret-red tetrazo	J. Herbabny	639,042	Dec. 12	1565	------	89	2191
Dye from cotton-seed oil	E. S. Wilson and E. Stewart	640,061	Dec. 26	3454	------	89	2602
Dye. Green	A. Herrmann	639,976	Dec. 26	3315	------	89	2573
Dye. Green	A. Herrmann	639,977	Dec. 26	3316	------	89	2573
Dye. Green acid	A. Herrmann	628,243	July 4	526	------	88	105
Dye. Green-blue tetrazo	J. Herbabny and C. Hartmann	639,040	Dec. 12	1563	------	89	2191
Dye. Lactic-acid	C. Dreher	630,199	Aug. 1	870	------	88	894
Dye. Making yellow phosphin	P. Julius and A. Tkatsch	619,577	Feb. 14	1414	------	86	1104
Dye. Oxazin	C. de la Harpe and C. Vaucher	638,576	Dec. 5	725	------	89	2005
Dye. Red	H. Kirchhoff	617,963	Jan. 17	2101	------	86	450
Dye. Red sulfo-acid	J. Schmid and H. Rey	624,877	May 9	1706	------	87	1055
Dye. Stilbene azo	C. Ris	636,065	Oct. 31	3971	------	89	843
Dye. Yellow basic	C. O. Müller	633,883	Sept. 26	3145	------	88	2366
Dye. Yellow basic	H. Terrisse and G. Darier	637,183	Nov. 14	1853	------	89	1315
Dyes. Making	L. P. Marchlewski, E. S. Wilson, and E. Stewart.	633,245	Sept. 19	1979	------	88	2124
Dyes. Making green	O. Bally	617,627	Jan. 10	1454	------	86	303

Alphabetical list of inventions—Continued.

Invention.	Name.	No.	Date.	Monthly volume.		Official Gazette.	
				Spec.	Dr'g.	Vol.	Page.
Dyeing	F. Erhan and L. Specht	633,438	Sept. 19	2343	------	88	2194
Dyeing	J. W. Fries	620,578	Mar. 7	47	------	86	1511
Dyeing	F. I. Horrocks	630,507	Aug. 8	1503	------	88	1028
Dyeing	A. Philips	632,503	Sept. 5	529	------	88	1812
Dyeing and tanning skins	W. F. Sykes	622,563	Apr. 4	683	------	87	130
Dyeing apparatus	C. E., F. P., and A. T. Middleton	632,317	Sept. 5	200	46	88	1746
Dyeing dark blue	M. Boehler	625,717	May 23	3178	------	87	1380
Dyeing khaki	J. T. Reid and H. Thorp	631,906	Aug. 29	4027	------	88	1576
Dyeing loose stock. Apparatus for	G. Mallinson	620,470	Feb. 28	3025	692	86	1452
Dyeing-machine	C. Schlaepfer and M. Walton	625,357	May 23	2564	583 584	87	1259
Dyeing, &c. Machine for	G. W. Mosely	639,266	Dec. 19	1975	456	89	2286
Dyeing machine. Hank-	J. W. Crowther	629,715	July 25	3272	763	88	691
Dyeing on fiber	A. Philips and M. von Gallois	625,198	May 16	2261	------	87	1177
Dyeing textile fabrics. Machine for	J. W. Fries	620,579	Mar. 7	48	10	86	1511
Dyeing unions	M. Becke and A. Beil	623,697	Apr. 25	2753	------	87	585
Dyeing wool fast black	P. Julius and R. Laiblin	634,824	Oct. 10	1555	------	89	325
Dynamo	H. B. Schneider	630,568	Aug. 8	1618	361	88	1052
Dynamo-driving mechanism	J. L. Creveling	635,750	Oct. 31	3323	767	89	716
Dynamo-driving mechanism	J. L. Creveling	637,711	Nov. 21	3211	667	89	1639
Dynamo. Magneto-electric motor-	F. H. Donaldson	622,452	Apr. 4	451	105	87	84
Dynamo. Portable hand-	S. Evershed	639,849	Dec. 26	3076	707	89	2524
Dynamo regulator. Constant-current-	J. J. Wood	617,793	Jan. 17	1789	401 402	86	387
Dynamo. Self-regulating	M. Moskowitz	626,713	June 13	908	206	87	1808
Dynamos from car-axles. Means for driving	J. L. Creveling	637,766	Nov. 28	3310	693	89	1677
Dynamos. Potential-regulator for	A. A. Tirrill	620,514	Feb. 28	3094	708	86	1466
Ear-drum	G. P. Way	628,051	July 4	167	35	88	34
Ear-phone. Magneto	F. H. Collins	622,328	Apr. 4	230	52	87	44
Ear-ring	L. Mann	625,890	May 30	3536	803	87	1466
Earth. Apparatus for working frozen auriferous	B. F. Gilman	618,266	Jan. 24	2695	597	86	574
Earth or gravel. Device for penetrating frozen	T. J. Huhbell	622,365	Apr. 4	286	66	87	55
Easel	J. Schwarz	621,856	Mar. 28	2449	546	86	2016
Easel attachment	R. S. Blything	631,483	Aug. 22	3257	740	88	1416
Easel-bracket	L. Hayne	635,542	Oct. 24	2936	671	89	628
Easel for supporting and exhibiting photograph-albums.	R. Aizenman	627,792	June 27	2940	643	87	2244
Easel. Photograph-	J. Berhecker	625,013	May 16	1940	436	87	1117
Easy-chair or lounge. Adjustable	J. H. S. May	639,076	Dec. 12	1618	371 372	89	2201
Eaves-trough	J. H. Schwone and E. W. Lamper	617,658	Jan. 10	1512	343	86	314
Eaves-trough	C. S. Scott	623,110	Apr. 11	1689	390	87	342
Eaves-trough hanger	G. W. Hartley	635,317	Oct. 24	2469	574	89	536
Eaves-trough hanger	W. Heib	623,369	Apr. 18	2173	499	87	453
Eaves-trough hanger	E. E. Taft	635,359	Oct. 24	2556	595	89	553
Eccentric	F. Hassis	618,173	Jan. 24	2537	561	86	544
Edge setting and hurnishing machine	A. H. Kline	619,963	Feb. 21	2146	486 487	86	1270
Edge setting or hurnishing machine	H. A. Webster	631,865	Aug. 29	3962	886	88	1564
Edger. Gang-	E. H. Brown	636,316	Nov. 7	152	33	89	951
Edger. Gang-	S. B. Kenfield	626,431	June 6	401	95	87	1692
Educational apparatus	W. Paul	617,883	Jan. 17	1962	439	86	422
Educational appliance	H. Brodt and J. Mueller	618,198	Jan. 24	2575	570	86	552
Educational appliance	J. H. Hargens	626,423	June 6	383	90	87	1688
Educational appliance	J. O. Osman	629,046	July 18	2049	477	88	436
Educational appliance	T. Paterson	623,558	Apr. 25	2510	576	87	540
Educational appliance	A. Perry	635,182	Oct. 17	2229	519	89	475
Educational appliance	W. Sinning	622,551	Apr. 4	666	155	87	127
Educational appliance	A. W. Thomson	627,365	June 20	2145	472	87	2072
Educational device	J. A. Bevington	624,614	May 9	1229	276	87	961
Educational device	J. H. Gerwig	625,881	May 30	3520	799	87	1464
Educational device	R. Mayer	618,114	Jan. 24	2400	535	86	520
Educational model	C. Rossi-Diehl	639,941	Dec. 26	3231	741	89	2556
Educational purposes. Figure for	H. Hanstein	630,217	Aug. 1	899	198	88	900
Egg-beater	S. E. Chapman	632,044	Aug. 29	4287	963	88	1627
Egg-heater	H. T. Crepeau	632,780	Sept. 12	1089	252	88	1938
Egg-beater	W. R. Ellis	617,416	Jan. 10	1078	246	86	229
Egg-heater	G. M. Fitch	618,029	Jan. 17	2221	495	86	471
Egg-heater	T. Holt	631,715	Aug. 22	3685	826	88	1499
Egg-hoiling device	N. O. Bond	623,200	Apr. 18	1864	426	87	391
Egg-carrier	S. H. Houghton	629,506	July 25	2912	678	88	622
Egg-carrier	W. H. H. Rogers	639,865	Dec. 26	3098	712	89	2529
Egg-carriers. Machine for making	S. E. Davis	622,038	Mar. 28	2795	630	86	2083
Egg-case	A. Deerwester	621,044	Mar. 14	971	211	86	1701
Egg-case filler	C. E. La Fleur	621,609	Mar. 21	1972	440	86	1908
Egg-case. Folding	D. A. Demorest	627,745	June 27	2860	625	87	2229
Egg-case. Knockdown	F. E. Renick	635,186	Oct. 17	2233	520	89	476
Egg-case machine	J. H. Batchelder	619,267	Feb. 14	895	201 202	86	1003
Egg-holder	B. Keys	634,500	Oct. 10	991	237	89	216
Egg-holder and alarm	J. W. Gregg	636,723	Nov. 7	904	201	89	1108
Egg-holder for hoiling eggs	H. J Marks	620,044	Feb. 21	2297	521	86	1299
Egg or fruit case	W. Wilson	624,598	May 9	1200	270 271	87	955
Egg-separator	J. A. Burns	633,423	Sept. 19	2321	547	88	2190
Egg-tester	C. H. Anderson	623,647	Apr. 25	2665	610	87	567
Egg-tester	A. Thomass	634,249	Oct. 3	523	133	89	105
Egg-tester	H. L. Tower	628,966	July 18	1908	444	88	408
Egg-tester	W. Upton	630,820	Aug. 8	2046	461	88	1137
Egg-testing apparatus	J., A., and G. Lyons	626,284	June 6	120	31	87	1636
Eggs, &c. Device for beating	C. Julier	628,471	July 11	977	226	88	209
Eggs. Device for separating whites and yolks of	H. R. Bessell	621,516	Mar. 21	1813	403	86	1876
Eggs for shipment. Packing	C. E. La Fleur	633,384	Sept. 19	2250	530	88	2175
Eggs. Preserving	C. Reinhardt	631,997	Aug. 29	4193	------	88	1608
Ejector	J. L. Chapman	636,953	Nov. 14	1394	297	89	1228
Elastic band	L. Nissim	620,664	Mar. 7	229	47	86	1547

Alphabetical list of inventions—Continued.

Invention.	Name.	No.	Date.	Monthly volume. Spec.	Monthly volume. Dr'g	Official Gazette. Vol.	Official Gazette. Page.
Elastic compound	P. C. Bell	626,479	June 6	485	------	87	1707
Elastic fabric	G Riley	630,110	Aug. 1	722	156	88	866
Elastic fabric. Woven	J. W. Green, Jr., and G. Astill	628,934	July 18	1857	430	88	398
Elastic or extensible cords, &c. Attachment hook for	G. H. Shepherd	631,678	Aug. 22	3615	815	88	1488
Elastic or resilient wheel for vehicles	T. Lee	634,893	Oct. 17	1687	398	89	368
Elastic wheel	G. H. Needham and W. Smith	618,430	Jan. 31	3021	669	86	651
Electric accumulator	A. Werner	623,195	Apr. 18	1857	425	87	389
Electric alarm and registering or controlling apparatus.	M. Vester	631,032	Aug. 15	2442	554	88	1237
Electric alarm or signal	H. Wild	639,124	Dec. 12	1714	395	89	2220
Electric apparatus	H. W. Smith and W. J. Baughman	636,577	Nov. 7	616	136	89	1047
Electric-arc-forming device	J. Czikowski	622,759	Apr. 11	1037	241	87	217
Electric band	J. M. Wolkosky	636,881	Nov. 14	1244	268	89	1200
Electric bath. Four-tub	C. E. Schnée	620,254	Feb. 28	2667	608, 609, 610, 611, 612	86	1384
Electric battery	A. R. Adams	618,635	Jan. 31	3377	------	86	719
Electric battery	H. Blumenberg, Jr., and F. C. Overbury.	637,072	Nov. 14	1621	351	89	1273
Electric battery	J. Post	639,905	Dec. 26	3166	729	89	2541
Electric battery. Thermochemical	M. L. Severy	620,855	Mar. 7	592	128, 129	86	1619
Electric brake	G. H. B. Hooper	634,666	Oct. 10	1284	303	89	273
Electric brake	C. P. Pushaw	623,625	Apr. 25	2628	600	87	561
Electric brake	J. E. Williamson	632,932	Sept. 12	1375	317, 318	88	1992
Electric cable	C. Coleman	632,514	Sept. 5	557	128	88	1817
Electric cable	W. S. Smith	626,940	June 13	1359	299	87	1896
Electric cable or wire casings. Junction-box or other coupling for	A. Sundh	639,948	Dec. 26	3247	744	89	2559
Electric cables, &c. Apparatus for holding and connecting guard-wires of	R. Bostock and F. A. Cheetham	622,596	Apr. 4	742	171	87	141
Electric cables. Machine for making armored	E. T. Greenfield	630,502	Aug. 8	1491	334, 335	88	1027
Electric cables or wires. Protective casing for	H. P. Douglas and A. Sundh	630,599	Aug. 8	1674	376	88	1063
Electric cables or wires. Protective casing for	A. Sundh	630,634	Aug. 8	1743	391	88	1075
Electric cables or wires. Protective casing for	A. Sundh	630,635	Aug. 8	1744	391	88	1075
Electric cables or wires. Protective casing for	A. Sundh	630,636	Aug. 8	1745	391	88	1075
Electric cables or wires. Protective casing for	A. Sundh	630,637	Aug. 8	1746	391	88	1076
Electric cane	W. N. Sherman	639,690	Dec. 19	2779	641	89	2448
Electric-cell packing-case	M. E. Fuld	627,408	June 20	2237	493	87	2088
Electric-circuit breaker. Automatic	M. Bouchet	623,511	Apr. 25	2419	555, 556	87	523
Electric-circuit closer	J. J. Busenbenz	619,936	Feb. 21	2095	476	86	1261
Electric-circuit closer	J. J. Busenbenz	636,486	Nov. 7	439	97	89	1010
Electric-circuit-closing device	F. Wilke	627,837	June 27	3019	659	87	2260
Electric-circuit safety device	E. J. Houston and A. E. Kennelly	625,395	May 23	2625	597	87	1272
Electric-circuit switch	G. Wright and C. Aalborg	633,771	Sept. 26	2955	686	88	2328
Electric circuits. Automatic mechanism for opening or closing	J. H. Winspear and F. R. Smith	621,550	Mar. 21	1881	416, 417	86	1890
Electric circuits. Distributing-panel for	C. J. Klein	636,905	Nov. 14	1292	278	89	1209
Electric circuits. Means for impressing semicycles of electromotive force on	A. C. Crehore and G. O. Squier	620,746	Mar. 7	397	81, 82	86	1579
Electric circuits. Means for preventing sparking when making and breaking	A. Müller	629,201	July 18	2329	540	88	489
Electric circuits. Overload safety device for	L. G. Rowand	621,976	Mar. 28	2699	609	86	2063
Electric-circuit plug-receptacle	J. T. Hunt	629,445	July 25	2776	645	88	597
Electric condenser	C. S. Bradley	617,714	Jan. 17	1624	365	86	355
Electric-conductor joint	H. W. Neild	627,759	June 27	2881	630	87	2234
Electric-conductor support	J. M. Andersen	616,872	Jan. 3	2	1	86	3
Electric-conductor support	J. M. Andersen	632,211	Aug. 29	4605	1038	88	1689
Electric conductors. Manufacture of	S. O. Cowper-Coles	628,770	July 11	1551	------	88	322
Electric conduits and armoring flexible tubes and electric cables. Method of and mechanism for constructing	E. T. Greenfield	630,503	Aug. 8	1496	335	88	1027
Electric controller	W. W. Adams and H. McGeorge	625,632	May 23	3037	691, 692	87	1353
Electric controller	G. Valley	627,549	June 27	2496	548, 549	87	2156
Electric-current controller	J. B. Breeding	623,393	Apr. 18	2210	507	87	461
Electric-current regulator	F. E. Ramsay	628,849	July 11	1692	395	88	350
Electric-current supply, &c. Apparatus for	E. J. Preston and A. B. Gill	617,121	Jan. 3	502	120, 121	86	98
Electric-current transformer	S. K. Humphrey	628,807	July 11	1624	375	88	338
Electric currents. Apparatus for producing	M. C. Massie	617,901	Jan. 17	2004	447	86	430
Electric currents at sea by the action of waves. Device for producing	M. Gehre	628,457	July 11	948	221	88	202
Electric currents. Automatic regulator for	A. Vogt	630,953	Aug. 15	2283	519	88	1205
Electric currents. Coin-freed apparatus for distributing	C. Bieberstein	629,978	Aug. 1	464	100	88	815
Electric currents. Resistance and contact apparatus for	H. Lyon	622,627	Apr. 4	790	183, 184	87	150
Electric currents. Resistance and contact apparatus for	H. Lyon	622,628	Apr. 4	791	184	87	150
Electric cut-out	J. Erikson	636,379	Nov. 7	258	57	89	973
Electric cut-out	J. Sachs	635,395	Oct. 24	2639	610	89	570
Electric device	D. Misell	617,592	Jan. 10	1390	315, 316	86	289
Electric elevator	T. W. Heermans and N. Whichello	622,355	Apr. 4	270	62	87	52
Electric elevator	T. W. Heermans and N. Whichello	622,430	Apr. 4	409	94, 95, 96	87	76
Electric elevator	A. B. See, N. O. Lindstrom, and D. A. Mason.	617,128	Jan. 3	516	123, 124	86	101

Alphabetical list of inventions—Continued.

Invention.	Name.	No.	Date.	Monthly volume. Spec.	Monthly volume. Dr'g.	Official Gazette. Vol.	Official Gazette. Page.
Electric elevator. Automatic	H. Rowntree	638,281	Dec. 5	160	36, 37	89	1897
Electric elevator. Automatic	H. Rowntree	638,282	Dec. 5	169	37, 38	89	1899
Electric excitant. Chemical	J. Post	639,767	Dec. 26	2929	------	89	2496
Electric fixtures. Detachable connection for	S. G. Read	633,039	Sept. 12	1555	362	88	2028
Electric furnace	H. Bovy	618,391	Jan. 31	2944	652	86	638
Electric furnace	J. A. Deuther	616,906	Jan. 3	74	15, 16	86	16
Electric furnace	J. J. Faulkner	628,782	July 11	1574	363	88	328
Electric furnace	F. P. Van Denbergh	628,373	July 4	793	184	88	152
Electric generator. Dynamo-	B. G. Lamme	633,857	Sept. 26	3101	719, 720	88	2357
Electric generator or motor	C. H. and G. H. Cutting	636,897	Nov. 14	1272	274	89	1205
Electric generator or motor	N. W. Storer	638,482	Dec. 5	568	118	89	1975
Electric ground-detector for constant-current arc-light circuits.	J. F. Stevens	639,459	Dec. 19	2357	543	89	2363
Electric heater	L. Casper	620,086	Feb. 21	2361	535	86	1311
Electric heater	J. L. Creveling	631,360	Aug. 22	3028	686	88	1371
Electric heater	M. W. Dewey	629,153	July 18	2253	522	88	476
Electric heater	E. E. Gold	621,604	Mar. 21	1961	438, 439	86	1906
Electric heater	E. E. Gold	631,959	Aug. 29	4122	928	88	1594
Electric heater	E. E. Gold	635,131	Oct. 17	2144	501	89	459
Electric heater	E. E. Gold	635,132	Oct. 17	2147	501	89	459
Electric heater	E. E. Gold	635,133	Oct. 17	2150	502	89	460
Electric heater	E. E. Gold	638,050	Nov. 28	3848	809	89	1786
Electric heater	E. E. Gold	638,236	Dec. 5	55	13, 14	89	1877
Electric heater	E. E. Gold	638,388	Dec. 5	384	81	89	1940
Electric heater	E. E. Gold	639,725	Dec. 26	2842	655	89	2478
Electric heater	R. Lundell	640,143	Dec. 26	3601	828	89	2632
Electric heater	R. A. Parker	620,720	Mar. 7	336	69	86	1566
Electric heater	J. D. S. Reed	622,166	Mar. 28	3035	687	86	2132
Electric heaters. Means for controlling	E. E. Gold	639,170	Dec. 12	1784	413, 414	89	2235
Electric incandescent tube	W. J. McCutcheon	623,730	Apr. 25	2797	639	87	592
Electric indicator	F. B. Pope	632,970	Sept. 12	1435	331, 332	88	2004
Electric light and making same. Incandescent	W. L. Voelker	637,979	Nov. 28	3708	------	89	1759
Electric-light appliance for controlling the number of incandescent lights to be burned on a circuit.	A. Peters	639,824	Dec. 26	3029	697	89	2516
Electric-light bulb. Incandescent	R. Mossgrove, Jr	632,058	Aug. 29	4314	970	88	1632
Electric-light controller	O. M. Lacey. (Reissue)	11,765	Aug. 15	2869	648	88	1321
Electric-light handle and adjuster	F. H. Stewart	627,215	June 20	1835	401	87	2009
Electric-light hanger	W. Gierth and F. Peters	623,363	Apr. 18	2161	497	87	450
Electric-light radiator	H. Stenz	622,785	Apr. 11	1078	250	87	224
Electric-light socket	L. M. Chapman and J. M. Gelatt	638,833	Dec. 12	1207	272	89	2121
Electric lights. Automatic controller for	O. M. Lacey	625,571	May 23	2934	666	87	1332
Electric-lighting apparatus	A. Plecher	625,599	May 23	2976	676	87	1340
Electric-lighting apparatus for vehicles	G. Heidel	636,429	Nov. 7	342	77	89	990
Electric-lighting apparatus for vehicles	G. Heidel	638,511	Dec. 5	617	128	89	1984
Electric lighting device	S. E. Mosher	625,786	May 30	3325	755	87	1426
Electric lighting device	S. E. Mosher	625,787	May 30	3327	755, 756	87	1427
Electric lighting device	S. E. Mosher	625,788	May 30	3329	756	87	1427
Electric-lighting system	R. O. Hood	623,607	Apr. 25	2599	594	87	556
Electric line conductor	D. G. Stoughton	624,124	May 2	333	68	87	764
Electric line conductor	D. G. Stoughton	624,125	May 2	334	68	87	764
Electric linemen. Repair-tool for use by	J. H. Sullivan	639,792	Dec. 26	2975	684	89	2506
Electric lock	J. R. Francis	632,868	Sept. 12	1248	285	88	1970
Electric machine and operating same. Dynamo-	M. Déri	630,490	Aug. 8	1469	328	88	1023
Electric-machine brush-holder. Dynamo-	G. S. Dunn	618,853	Feb. 7	62	13	86	816
Electric machine. Dynamo-	C. A. Eck	633,641	Sept. 26	2728	635	88	2281
Electric machine. Dynamo-	S. S. Foster	619,296	Feb. 14	949	215	86	1014
Electric machine. Dynamo-	M. Hutin and M. Leblanc	628,245	July 4	531	128, 129	88	106
Electric machine. Dynamo-	T. B. Kinraide	619,761	Feb. 21	1772	406, 407	86	1198
Electric machine. Dynamo-	N. J. Laschet	635,489	Oct. 24	2841	649	89	609
Electric machine. Dynamo-	L. O. Lieber	627,937	June 27	3206	702	87	2299
Electric machine. Dynamo-	H. G. Reist	630,409	Aug. 8	1319	294	88	994
Electric machine. Dynamo-	W. H. A. Rotth	627,531	June 27	2456	540	87	2148
Electric machine. Dynamo-	W. B. Sayers	638,070	Nov. 28	3874	815, 816	89	1791
Electric machine. Dynamo-	C. Sellers	621,717	Mar. 21	2174	488	86	1949
Electric-machine frame or yoke. Dynamo-	C. A. Eck	627,488	June 27	2374	523	87	2132
Electric machine or electric motor. Dynamo-	G. Heidel	638,635	Dec. 5	843	183	89	2028
Electric-machine regulator. Dynamo-	R. E. Rall	639,957	Dec. 26	3272	749	89	2564
Electric machine. Static	J. Gallegos	633,829	Sept. 26	3047	708	88	2347
Electric machines. Arrangement for exciting magnets of dynamo	M. Déri	630,492	Aug. 8	1473	330	88	1024
Electric machines. Means for cooling dynamo-	G. W. von Siemens and A. W. H. Rotth.	616,979	Jan. 3	208	48	86	41
Electric machines. Operating dynamo	E. W. Rice, Jr	625,806	May 30	3375	766	87	1436
Electric machines. Regulating alternating-current dynamo-	M. Hutin and M. Leblanc	630,233	Aug. 1	923	202, 203	88	905
Electric meter	T. Duncan	619,733	Feb. 21	1732	395	86	1191
Electric meter	T. Duncan	619,734	Feb. 21	1733	395, 396	86	1191
Electric meter	T. Duncan	623,521	Apr. 25	2440	559, 560	87	527
Electric meter	T. Duncan	623,522	Apr. 25	2442	560, 561	87	527
Electric meter	T. Duncan	623,523	Apr. 25	2444	561, 562	87	527
Electric meter	T. Duncan	623,524	Apr. 25	2446	562	87	528
Electric meter	T. Duncan	623,525	Apr. 25	2447	562	87	528
Electric meter	T. Duncan	623,527	Apr. 25	2451	564	87	528
Electric meter	T. Duncan	623,529	Apr. 25	2454	565	87	529

Alphabetical list of inventions—Continued.

Invention.	Name.	No.	Date.	Monthly volume. Spec.	Monthly volume. Dr'g.	Official Gazette. Vol.	Official Gazette. Page.
Electric meter	T. Duncan	623,530	Apr. 25	2456	565	87	529
Electric meter	T. Duncan	623,532	Apr. 25	2460	566	87	530
Electric meter	T. Duncan	628,240	July 4	520	126	88	103
Electric meter	P. Eibig	634,811	Oct. 10	1534	361	89	321
Electric meter	W. C. Fish	631,290	Aug. 22	2909	658	88	1346
Electric meter	E. S. Halsey	626,832	June 13	1129	252, 253	87	1850
Electric meter	E. S. Halsey	638,011	Nov. 28	3784	795	89	1773
Electric meter	C. D. Haskins	631,503	Aug. 22	3300	750	88	1424
Electric meter	E. Oxley	632,739	Sept. 12	1010	235	88	1920
Electric meter	G. F. Packard	631,225	Aug. 15	2771	627, 628	88	1302
Electric meter	A. Peloux	632,144	Aug. 29	4480	1008, 1009	88	1666
Electric meter	G. C. Pillinger	629,870	Aug. 1	218	49	88	763
Electric meter	G. A. Scheeffer	622,639	Apr. 4	827	191	87	157
Electric meter	H. O. Swoboda	624,993	May 16	1909	428	87	1112
Electric meter	E. Thomson	635,159	Oct. 17	2194	512	89	468
Electric meter	E. Thomson	635,881	Oct. 31	3576	823	89	764
Electric meter	W. S. Weston	621,005	Mar. 14	886	192	86	1685
Electric meter	R. S. White	624,141	May 2	359	74, 75	87	768
Electric meter. Ampere-hour	G. Hummel	623,547	Apr. 25	2491	572, 573	87	536
Electric meter. Coin-controlled	S. L. Phillips and G. G. Tilden	626,298	June 6	139	35, 36	87	1640
Electric meter. Multiple-rate	T. Duncan	619,735	Feb. 21	1736	396	86	1191
Electric meter. Multiple-rate	T. Duncan	623,531	Apr. 25	2458	566	87	530
Electric meter. Prepayment	F. M. Long and E. Schattner	618,699	Jan. 31	3495	781	86	742
Electric meters. Coin-controlled mechanism for	W. F. Browne	620,587	Feb. 28	3154	722, 723	86	1477
Electric meters. Means for reducing friction in rotating shafts of	R. S. White	624,142	May 2	362	75	87	769
Electric meters. Mechanical time-switch for two-rate	J. H. Gerry	619,476	Feb. 14	1247	285	86	1072
Electric meters. Prepayment mechanism for	J. C. Kinney	619,187	Feb. 7	743	161, 162	86	957
Electric metering system	E. S. Halsey	626,833	June 13	1133	253	87	1851
Electric metering system	E. Thomson	631,343	Aug. 22	3000	680	88	1365
Electric metering system and apparatus therefor	R. M. Hunter	631,467	Aug. 22	3224	733	88	1409
Electric motor	J. Anderson	631,768	Aug. 29	3801	846	88	1531
Electric motor	R. Arno	631,919	Aug. 29	4054	910	88	1581
Electric motor	H. W. Corse	623,989	May 2	64	14	87	714
Electric motor	T. Duncan	623,528	Apr. 25	2453	564	87	529
Electric motor	T. Duncan. (Reissue)	11,783	Nov. 7	962	207	89	1127
Electric motor	A. Hinman	627,417	June 20	2250	496, 497	87	2091
Electric motor	T. D. and F. W. Hollick	619,307	Feb. 14	966	219	86	1018
Electric motor	R. Lundell	626,708	June 13	901	205	87	1807
Electric motor	C. R. Meston	617,114	Jan. 3	488	117	86	96
Electric motor	C. R. Meston. (Reissue)	11,787	Nov. 14	1928	413	89	1330
Electric motor	O. H. and A. F. Pieper	619,217	Feb. 7	792	172, 173	86	967
Electric motor	J. T. Robson	629,872	Aug. 1	223	50	88	763
Electric motor	C. L. Rosenqvist	619,620	Feb. 14	1490	340, 341	86	1118
Electric motor. Alternating-current	C. L. Rosenqvist	619,621	Feb. 14	1495	341, 342	86	1120
Electric motor. Alternating-current	C. L. Rosenqvist	637,349	Nov. 21	2184	470, 471	89	1397
Electric motor and pump-head. Combined	R. J. Northam and G. E. Nolan	633,478	Sept. 19	2404	565, 566	88	2205
Electric-motor attachment	C. R. Meston	628,014	July 4	103	21	88	22
Electric-motor control	W. M. Brown	618,163	Jan. 24	2519	559	86	542
Electric-motor controller	H. P. Davis and G. Wright	625,151	May 16	2185	496, 497	87	1162
Electric-motor controller	H. P. Davis and G. Wright	629,665	July 25	3177	741, 742	88	674
Electric-motor-controlling apparatus	S. H. Short	629,390	July 25	2696	628	88	581
Electric-motor-controlling switch	R. Hutchison	622,230	Apr. 4	56	13	87	14
Electric-motor-controlling switch	R. Hutchison	622,369	Apr. 4	295	68, 69	87	56
Electric-motor-controlling system	F. A. Merrick	632,019	Aug. 29	4234	953	88	1617
Electric-motor-controlling system	F. B. Rae	638,522	Dec. 5	638	132	89	1988
Electric motor. Diphase	S. W. Dietrich	630,333	Aug. 8	1132	248	88	961
Electric motor. Direct-acting reciprocating	J. H. Mason	618,702	Jan. 31	3500	781	86	743
Electric-motor fields. Dust or water proof casing for	J. H. Nagle	626,922	June 13	1331	293	87	1890
Electric motor for brakes	R. A. J. Evans	630,205	Aug. 1	879	190	88	896
Electric motor for driving motor-carriages, winches, &c.	H. W. Headland	634,979	Oct. 17	1842	436, 437	89	399
Electric motor for fans	G. A. Tower	636,087	Oct. 31	4013	917	89	850
Electric-motor frame	E. C. Morgan	634,903	Oct. 17	1701	402	89	371
Electric motor. Multipolar	C. A. Lindstrom	638,872	Dec. 12	1276	290	89	2134
Electric motor or dynamo-electric machine	R. Lundell	626,496	June 6	518	120	87	1714
Electric motor or generator	J. Burke	631,518	Aug. 22	3329	756	88	1430
Electric-motor regulation	O. H. and A. F. Pieper	623,622	Apr. 25	2624	599	87	560
Electric-motor reversing-switch	E. V. Matlack	635,496	Oct. 24	2852	651	89	611
Electric motor. Rotating	W. P. Freeman	618,935	Feb. 7	231	52	86	849
Electric-motor-starting device	C. P. Steinmetz and E. J. Berg	620,989	Mar. 14	856	187	86	1680
Electric-motor-starting switch	E. H. Porter	624,971	May 16	1876	421, 422	87	1105
Electric-motor suspension	G. Gibbs	620,239	Feb. 28	2638	601	86	1377
Electric motors and railway-trains. System of control for	W. B. Potter	617,601	Jan. 10	1407	319, 320	86	292
Electric motors and trains. Controlling	E. Thomson	617,546	Jan. 10	1302	294	86	273
Electric motors. Automatic alarm mechanism for	R. W. Traylor	617,664	Jan. 10	1520	345	86	316
Electric motors. Automatic regulator for	A. T. Marshall	630,618	Aug. 8	1709	384	88	1069
Electric motors. Bearing for armature-shafts of	H. L. Parker and C. R. Meston	618,131	Jan. 24	2444	545	86	528

Alphabetical list of inventions—Continued.

Invention.	Name.	No.	Date.	Monthly volume. Spec.	Monthly volume. Dr'g.	Official Gazette. Vol.	Official Gazette. Page.
Electric motors. Means for driving machines at variable speeds by	W. A. Clatworthy	629,952	Aug. 1	419	90, 91	88	804
Electric motors. Means for lubricating	N. A. Christensen	627,252	June 20	1903	419	87	2023
Electric motors. Means for regulating speed of	O. C. Immisch	624,813	May 9	1587	360, 361	87	1032
Electric motors. Means for suspending	S. H. Short	620,256	Feb. 28	2672	613	86	1384
Electric motors. Mechanism for starting, stopping, reversing direction of motion, and controlling speed of	F. H. Foster	626,020	May 30	3816	867, 868	87	1520
Electric motors. Method of and means for operating	C. J. Reed	621,285	Mar. 14	1392	309, 310	86	1784
Electric motors. Method of and means for operating	C. J. Reed	622,392	Apr. 4	325	75	87	62
Electric motors. Method of and means for regulating	R. Lundell	626,178	May 30	4147	944	87	1580
Electric motors. Non-arcing controller for	A. J. Wurts	625,232	May 16	2324	530	87	1189
Electric motors. Regulating	M. T. A. Kubierschky	635,139	Oct. 17	2163	504, 505	89	462
Electric motors. Self-starter for	H. H. Cutler	625,246	May 16	2354	536	87	1194
Electric motors, &c. Switch for altering speed and direction of revolution of	W. R. Edwards and S. F. Beevor	621,471	Mar. 21	1729	386	86	1861
Electric motors. System of control for	J. R. Cravath	636,023	Oct. 31	3855	886	89	820
Electric or other wire coupling	R. Thompson	631,864	Aug. 29	3961	886	88	1564
Electric or other wire coupling	R. Thompson	639,464	Dec. 19	2366	544	89	2365
Electric plant. Residence	G. M. Hise and J. W. Eckman	637,115	Nov. 14	1715	369, 370	89	1290
Electric protective system	J. Tomney	619,449	Feb. 14	1208	274, 275	86	1064
Electric relay	H. B. Taylor	627,242	June 20	1885	413	87	2019
Electric resistance	H. Helberger	636,203	Oct. 31	4213	969	89	892
Electric safety appliance	F. H. Badger and W. J. Plews	631,145	Aug. 15	2641	598	88	1275
Electric selector systems. Battery cut-out for	T. C. Drake	622,669	Apr. 11	889	205	87	189
Electric signal	H. T. Gibbs	635,765	Oct. 31	3352	775	89	721
Electric signal	C. A. Parrish	617,540	Jan. 10	1293	292	86	272
Electric signal	J. M. Smith	625,364	May 23	2578	587	87	1263
Electric signal	W. H. Stillwell	629,624	July 25	3118	725	88	662
Electric signal-circuits. Testing apparatus for	A. Coleman	624,300	May 2	659	144	87	826
Electric signal. Selective	J. A. Barrett	626,131	May 30	4049	924, 925	87	1560
Electric sparking. Method of and means for preventing	C. L. Buckingham and E. Germann	634,198	Oct. 3	392	101	89	81
Electric storage-cell	C. P. Elieson	621,048	Mar. 14	978	213	86	1702
Electric-supply motor-meters. Counting mechanism of	S. Evershed	617,726	Jan. 17	1646	370	86	360
Electric switch	J. M. Andersen	638,687	Dec. 12	961	213, 214	89	2073
Electric switch	W. B. Bernardini and W. Ely	620,839	Mar. 7	557	120	86	1611
Electric switch	M. H. Caspari	622,116	Mar. 28	2931	665	86	2110
Electric switch	J. L. Creveling	638,705	Dec. 12	991	220	89	2079
Electric switch	H. H. Curtis	630,667	Aug. 8	1794	404	88	1085
Electric switch	L. W. Downes and W. T. Sherman	635,373	Oct. 24	2575	598, 599	89	557
Electric switch	W. Ely	634,057	Oct. 3	125	32	89	29
Electric switch	W. Ely	639,195	Dec. 12	1850	426	89	2246
Electric switch	W. J. Ferguson	618,380	Jan. 24	2898	642	86	613
Electric switch	G. W. Hart	631,303	Aug. 22	2933	664	88	1350
Electric switch	J. W. Hearn	631,791	Aug. 29	3846	857	88	1540
Electric switch	C. J. Klein	635,691	Oct. 24	3196	737	89	678
Electric switch	A. E. Maccoun	621,263	Mar. 14	1349	299	86	1776
Electric switch	F. A. Merrick	638,199	Nov. 28	4148	876	89	1845
Electric switch	A. H. Miller	619,900	Feb. 21	2045	464	86	1252
Electric switch	C. G. Perkins and J. Tregoning	637,892	Nov. 28	3557	745	89	1729
Electric switch	J. Sachs	635,396	Oct. 24	2642	610	89	571
Electric switch	J. E. Sayles and H. E. Reeve	630,076	Aug. 1	669	143	88	855
Electric switch	J. E. Sayles and H. E. Reeve. (Reissue.)	11,794	Dec. 12	1871	432	89	2250
Electric switch	O. H. Schuck	617,193	Jan. 3	632	147	86	124
Electric switch	F. Schwedtmann	636,360	Nov. 7	223	49, 50	89	965
Electric switch	C. Truitt	625,219	May 16	2296	523	87	1183
Electric switch	A. E. Wells	632,076	Aug. 29	4348	977	88	1638
Electric switch	H. P. White	638,036	Nov. 28	3831	806	89	1783
Electric switch and alarm	G. W. MacKenzie	630,292	Aug. 1	1034	227	88	927
Electric switch. Automatic	R. Baumann	621,739	Mar. 21	2223	501	86	1958
Electric switch. Automatic	J. L. Creveling	627,686	June 27	2756	604	87	2207
Electric switch. Automatic	E. F. Porter	636,286	Nov. 7	110	24	89	944
Electric switch. Centrifugal	R. L. Hunter	633,516	Sept. 19	2466	581	88	2218
Electric switch. Inclosed	W. M. Brown	617,715	Jan. 17	1625	365	86	355
Electric switch or signal apparatus	F. Andrews	634,226	Oct. 3	459	117, 118	89	95
Electric switch. Quick-break	W. F. Bossert and G. L. Holton	617,275	Jan. 3	789	183	86	155
Electric switch. Quick-break	R. B. Hewson	636,989	Nov. 14	1463	316	89	1243
Electric switch. Quick-break	G. L. Holton	636,804	Nov. 14	1103	236	89	1171
Electric switches. Automatic device for operating	I. Deutsch	633,095	Sept. 12	1676	394	88	2053
Electric switching system	J. Brennan, Jr.	631,497	Aug. 22	3290	748	88	1422
Electric terminal	F. Schwedtmann	631,970	Aug. 29	4143	932	88	1599
Electric third-rail system	L. M. Maxham	623,610	Apr. 25	2603	595	87	556
Electric time-switch	H. O. Swoboda	620,196	Feb. 28	2566	583, 584	86	1364
Electric track and wheel brake	G. B. Heath	625,300	May 16	2455	558	87	1213
Electric traction. Combined alternating continuous current system for	W. Déri	626,984	June 13	1439	317	87	1911
Electric traction-motor	F. W. E. Zander	627,565	June 27	2522	555	87	2161
Electric-traction system	L. M. Maxham	637,006	Nov. 14	1503	323, 324	89	1250

Alphabetical list of inventions—Continued.

Invention.	Name.	No.	Date.	Monthly volume. Spec.	Monthly volume. Drg.	Official Gazette. Vol.	Official Gazette. Page.
Electric-traction system	E. Vedovelli	632,543	Sept. 5	619	142, 143, 144, 145, 146	88	1830
Electric traction. System for power transmission for	E. Bede	634,258	Oct. 3	543	136	89	109
Electric transformer	A. H. Loring and H. L. Clark	639,590	Dec. 19	2581	593	89	2409
Electric transformer	J. W. Packard	628,957	July 18	1893	439, 440	88	406
Electric transformer	J. W. Packard	639,276	Dec. 19	1995	459, 460	89	2291
Electric transformer	G. A. Scheeffer	627,144	June 20	1715	376	87	1985
Electric transformer	D. H. Wilson	617,381	Jan. 10	1003	230	86	215
Electric waves or vibrations. Generating	D. M. Moore	627,345	June 20	2090	461	87	2060
Electric wires. Adjustable crossover for	J. E. Blakesley	633,182	Sept. 19	1849	435	88	2097
Electric wires and automatically cutting off current on breakage of same. Apparatus for supporting	R. Bostock and F. A. Cheetham	621,210	Mar. 14	1252	277	86	1757
Electric wires. Automatic carrier for	F. T. Schottle and H. C. Willitz	628,994	July 18	1959	455	88	418
Electric wires. Metallic conduit for	E. T. Greenfield	630,501	Aug. 8	1490	333	88	1026
Electric wires or cables. Safety contact-interrupter for suspended	R. Ducornot	637,096	Nov. 14	1664	360	89	1281
Electric wires. System for overhead	W. Glasgow	622,618	Apr. 4	775	180	87	147
Electric-wiring cleat	H. M. Stevens	631,234	Aug. 15	2786	632	88	1305
Electrical-alarm matting	A. D. Risley	617,938	Jan. 17	2063	462	86	443
Electrical apparatus	T. B. Kinraide	619,760	Feb. 21	1769	406	86	1198
Electrical apparatus. Binding-post and connection for	A. Fischer	638,230	Dec. 5	41	11	89	1875
Electrical apparatus. Coin-controlled	R. W. Taylor, Sr	620,197	Feb. 28	2569	584, 585	86	1364
Electrical apparatus. Helix for	J. T. Williams	617,067	Jan. 3	403	98	86	78
Electrical attachment-plug	A. P. Seymour	625,473	May 23	2757	628	87	1297
Electrical battery	L. Paget	618,993	Feb. 7	387	81	86	885
Electrical binding-post	W. Roche	634,766	Oct. 10	1463	344	89	307
Electrical break	T. B. Kinraide	623,317	Apr. 18	2076	476	87	434
Electrical conducting main	J. S. Highfield and J. M. Cater	630,697	Aug. 8	1839	414	88	1093
Electrical-conductor conduit	C. H. Sewall	627,784	June 27	2920	639	87	2241
Electrical-conductor conduit	M. O. Spring	632,973	Sept. 12	1439	333, 334	88	2005
Electrical-conductor connector	P. Minich	620,715	Mar. 7	327	67	86	1565
Electrical conductor. Flexible	J. W. Gottschalk	623,006	Apr. 11	1482	343	87	302
Electrical-conductor junction-box	R. L. L. Hundhausen	635,485	Oct. 24	2836	647, 648	89	608
Electrical-conductor terminal head	C. H. Sewall and H. E. Procunier	623,570	Apr. 25	2534	582	87	544
Electrical conductors. Crossing for underground conduits for	V. Koch	634,759	Oct. 10	1453	342	89	305
Electrical conduit or tube. Flexible	E. T. Greenfield	634,169	Oct. 3	344	87	89	71
Electrical conduits. Pilot-wire rod for	J. Arnot	617,216	Jan. 3	672	156	86	131
Electrical connecting-cord	C. H. McEvoy	627,519	June 27	2432	535	87	1432
Electrical controller	N. K. Garhart	621,241	Mar. 14	1312	290, 291	86	1769
Electrical controlling apparatus	O. H. and A. F. Pieper. (Reissue)	11,718	Feb. 21	2369	537	86	1313
Electrical cut-out	C. G. Perkins	637,890	Nov. 28	3554	745	89	1729
Electrical cut-out	A. P. Seymour	617,608	Jan. 10	1422	324	86	295
Electrical cut-out apparatus	L. Andrews	638,084	Nov. 28	3898	820, 821	89	1796
Electrical device involving hermetically-incased conductors.	N. G. Warth	621,001	Mar. 14	872	190	86	1683
Electrical discharges. Apparatus for effecting silent	A. Vosmaer	636,304	Nov. 7	133	29	89	948
Electrical distribution and regulation. System of	B. G. Lamme	620,336	Feb. 28	2815	642	86	1412
Electrical distribution by storage batteries	J. B. Entz	625,098	May 16	2106	479	87	1471
Electrical distribution by storage batteries	J. B. Entz	625,099	May 16	2108	479	87	1147
Electrical distribution. Direct-current system of	B. G. Lamme	620,334	Feb. 28	2811	642	86	1411
Electrical distribution. Means for ascertaining the potential at any point upon systems of	S. L. Phillips and G. G. Tilden	625,597	May 23	2974	675	87	1340
Electrical-distribution system	L. Andrews	638,085	Nov. 28	3902	821, 822	89	1797
Electrical distribution system	J. B. Entz	625,100	May 16	2109	479	87	1148
Electrical-distribution system	G. Ferraris and R. Arno	629,898	Aug. 1	279	63, 64	88	775
Electrical-distribution system	S. Kirlin	617,165	Jan. 3	589	138	86	115
Electrical distribution system	W. H. Knight	621,827	Mar. 28	2395	536	86	2006
Electrical-distribution system	B. G. Lamme	633,855	Sept. 26	3097	719	88	2356
Electrical-distribution system	E. B. W. Reichel	637,828	Nov. 28	3427	716	89	1702
Electrical distribution system	C. F. Scott	622,866	Apr. 11	1228	285	87	252
Electrical-distribution system	L. B. Stillwell	633,920	Sept. 26	3202	746	88	2378
Electrical distribution system	E. Thomson	625,816	May 30	3393	770	87	1439
Electrical-distribution system	E. Wilson and J. M. Cater	638,157	Nov. 28	4066	858	89	1827
Electrical-distribution system	G. T. Woods	630,280	Aug. 1	1007	222	88	921
Electrical exchange	A. E. Keith, J. and C. J. Erickson	638,249	Dec. 5	87	20, 21	89	1883
Electrical furnace	H. Eldridge, D. J. Clark, and S. Blum.	625,252	May 16	2369	538	87	1197
Electrical fuses or cut-outs. Casing for and mounting of	L. W. Downes	633,576	Sept. 26	2599	609	88	2259
Electrical fuses or cut-outs. Casing for and mounting of	L. W. Downes	633,577	Sept. 26	2600	609	88	2259
Electrical glow-light	W. Nernst	623,811	Apr. 25	2977	681	87	628
Electrical heater	C. W. Jones	619,314	Feb. 14	980	221	86	1021
Electrical house-wiring	E. T. Greenfield	637,457	Nov. 21	2375	514	89	1435
Electrical indicator	M. Waddell	634,487	Oct. 10	971	233	89	212
Electrical indicator	M. Waddell and C. Legrand	634,488	Oct. 10	975	233	89	212
Electrical influence-machine	K. S. Lemström	634,467	Oct. 10	939	224	89	205
Electrical instrument	W. S. Boult	635,910	Oct. 31	3641	840	89	778
Electrical machine	J. B. Hague	635,681	Oct. 24	3182	732, 733	89	675

Alphabetical list of inventions—Continued.

Invention.	Name.	No.	Date.	Monthly volume. Spec.	Monthly volume. Dr'g.	Official Gazette. Vol.	Official Gazette. Page.
Electrical machine	G. F. Martin	620,473	Feb. 28	3029	693	86	1458
Electrical-machine current-collector	B. G. Lamme	633,972	Sept. 26	3300	768	88	2397
Electrical machines. Distributed winding for	B. G. Lamme and J. P. Mallett	633,856	Sept. 26	3099	719	88	2357
Electrical machines. Field-magnet coil for	B. G. Lamme and C. E. Skinner	633,858	Sept. 26	3103	720	88	2358
Electrical meter. Prepayment	C. O. Bastian	626,134	May 30	4063	926, 927	87	1563
Electrical protector	D. J. Cartwright	618,812	Jan. 31	3692	827	86	782
Electrical regulator	W. H. K. King	620,783	Mar. 7	458	94, 95	86	1591
Electrical resistance	J. F. H. Voigt and J. A. Haeffner	617,375	Jan. 10	995	228	86	213
Electrical rosette	A. P. Seymour	624,386	May 2	807	181	87	855
Electrical selective apparatus	J. S. Thompson	618,144	Jan. 24	2467	549	86	533
Electrical signal system	J. P. Buchanan	618,328	Jan. 24	2799	621	86	595
Electrical snap-switch	M. Guett	639,557	Dec. 19	2533	582	89	2399
Electrical spark-gap	T. B. Kinraide	623,318	Apr. 18	2079	476	87	435
Electrical switch	A. Brier	619,465	Feb. 14	1231	280	86	1069
Electrical switch	N. L. Burchell	625,639	May 23	3048	694	87	1355
Electrical switch	P. Medary	626,918	June 13	1325	292	87	1889
Electrical switch	P. Medary	626,919	June 13	1327	292	87	1889
Electrical switch	E. J. Wade	626,798	June 13	1066	240	87	1839
Electrical switch apparatus	W. F. Bossert	624,904	May 16	1757	397	87	1082
Electrical switchboard-signal	W. E. McCormick	621,126	Mar. 14	1118	243	86	1730
Electrical traction. Means for intercepting earth-currents in	W. Cramer	636,638	Nov. 7	735	160	89	1070
Electrical transformer	A. F. Berry	639,505	Dec. 19	2429	561	89	2377
Electrical transformers. Automatic cut-out for	W. J. Greene	620,302	Feb. 28	2752	630, 631	86	1401
Electrical transmission of sound	F. M. Bell	619,269	Feb. 14	899	203	86	1004
Electrical tree	G. H. Wallis	638,895	Dec. 12	1316	299	89	2143
Electrical unity of systems of metallic pipes or mains. Means for securing	D. C. Jackson	622,481	Apr. 4	529	124	87	100
Electrically-driven spindle	H. B. Sawyer and R. Robb	630,567	Aug. 8	1614	361	88	1051
Electrically-driven spindle	H. B. Sawyer and R. Robb	639,443	Dec. 19	2327	537, 538	89	2356
Electrically-heated tool	W. S. Hadaway, Jr	620,306	Feb. 28	2760	632	86	1402
Electrically-illuminated devices. Mechanism for	J. S. Richardson, S. Jevons, and W. A. Gent.	634,912	Oct. 17	1712	404, 405	89	373
Electrically-moved apparatus. Means for controlling	G. E. Sautter	638,150	Nov. 28	4052	855, 856	89	1825
Electrician's tool	J. N. Baggett	634,862	Oct. 17	1638	388	89	359
Electrician's tool	D. S. Geiser	631,112	Aug. 15	2587	584, 585	88	1264
Electricity. Automatic switch for distribution of	J. Hopkinson	618,175	Jan. 24	2540	561, 562	86	545
Electricity. Chemical generator of	E. L. Anderson	638,083	Nov. 28	3897	820	89	1796
Electricity for cars, &c. Generating	J. Wayland	627,246	June 20	1894	417, 418	87	2021
Electricity from car-wheel axles. Means for generating	P. Eggleston	636,776	Nov. 14	1055	226	89	1162
Electricity from car-wheel axles. Means for generating	M. Moskowitz	632,421	Sept. 5	377	86	88	1781
Electricity from car-wheel axles. Means for generating	M. Moskowitz	635,446	Oct. 24	2770	633, 634	89	595
Electricity from machinery of locomotives. Means for generating	H. F. Roach	617,187	Jan. 3	619	145, 146	86	121
Electricity from machinery of locomotives. Means for generating	H. F. Roach	622,078	Mar. 28	2854	643	86	2095
Electricity from the human system. Apparatus for removing	J. W. Shryock	620,679	Mar. 7	250	51	86	1550
Electricity. Method of and apparatus for administering therapeutic	W. P. Horton, Jr	622,922	Apr. 11	1332	306	87	271
Electrochronograph	C. W. Thompson	619,028	Feb. 7	445	94	86	896
Electrode	C. C. Connor	627,573	June 27	2543	559	87	2165
Electrode	W. E. Irish	626,787	June 13	1050	235	87	1837
Electrode	M. Wuillot	633,060	Sept. 12	1583	------	88	2084
Electrode and making same	I. L. Roberts	638,278	Dec. 5	155	35	89	1896
Electrode and treating same. Granular	P. W. Bossart	622,413	Apr. 4	384	88	87	71
Electrode. Battery-	J. C. Howell	628,661	July 11	1366	318	88	284
Electrode. Battery-	H. S. Lloyd	624,513	May 9	1049	236	87	925
Electrode for dry storage batteries	L. Paget	625,462	May 23	2743	624	87	1293
Electrode for electric accumulators	H. Pieper, Fils	623,104	Apr. 11	1675	387	87	339
Electrode for electric belts	F. G. Bonfils and J. D. Alkire, Jr	631,733	Aug. 22	3723	836	88	1507
Electrode for storage batteries. Tubular	T. A. Willard	617,008	Jan. 3	269	60	86	54
Electrode for therapeutic purposes. Vacuum-	H. G. O'Neill	628,352	July 4	759	175	88	146
Electrode. Secondary-battery	J. Julien	625,683	May 23	3114	708	87	1367
Electrode. Storage-battery	C. W. Kennedy	629,260	July 18	2427	562	88	507
Electrode. Storage-battery	T. A. Willard	617,004	Jan. 3	269	60, 61	86	54
Electrode. Zinc	J. D. Darling	618,043	Jan. 17	2250	501	86	477
Electrodes and cups. Supporting device for battery	R. Macrae	638,874	Dec. 12	1279	291	89	2134
Electrodes. Clamping-tool for manufacturing battery-	R. Macrae	638,730	Dec. 12	1040	233	89	2089
Electrodes for secondary or storage batteries. Forming	H. Rathier	633,249	Sept. 19	1985	465	88	2125
Electrodes. Machine for making metallic ribbon for battery-	J. C. Howell	622,690	Apr. 11	931	214	87	196
Electrodes. Making battery-	J. C. Howell	622,689	Apr. 11	930	214	87	196
Electrodes. Means for producing battery-	T. A. Willard	617,002	Jan. 3	265	59, 60	86	53
Electrodepositing-anode	H. L. Haas	639,811	Dec. 26	3015	694	89	2513
Electrodepositing-cell	M. Perreur-Lloyd	636,212	Oct. 31	4236	------	89	896
Electrohygienic apparatus	A. and A. Schneider	637,833	Nov. 28	3435	718	89	1704
Electrolysis apparatus	J. T. Morrow	629,043	July 18	2042	475, 476	88	435
Electrolysis. Process of and apparatus for dissociating substances by	G. H. Pond	637,410	Nov. 21	2297	494	89	1420
Electrolytic apparatus and process of treating impregnators therefor.	M. Perreur-Lloyd	626,083	May 30	3855	------	87	1526

Alphabetical list of inventions—Continued.

Invention.	Name.	No.	Date.	Monthly volume. Spec.	Monthly volume. Dr'g.	Official Gazette. Vol.	Official Gazette. Page.
Electrolytic cell	H. H. Dow	621,907	Mar. 28	2556	576, 577	86	2037
Electrolytic cells and producing same. Porous diaphragm for	H. H. Dow	621,908	Mar. 28	2559	577	86	2038
Electrolytic meter	C. O. Bastian	626,135	May 30	4066	927, 928	87	1564
Electrolytic or kindred apparatus. Liquid-feed device for	H. Carmichael	637,851	Nov. 28	3467	724	89	1710
Electromagnet	M. Schiemann	617,838	Jan. 17	1872	419	86	404
Electromagnet. Differential	J. S. Stone	623,579	Apr. 25	2551	585	87	547
Electromagnetic actuating device	B. E. Chollar	624,299	May 2	658	143	87	825
Electromagnetic apparatus for actuating mechanism.	S. H. Hoggson	617,099	Jan. 3	456	110	86	89
Electromagnetic brake	F. C. Newell	616,956	Jan. 3	172	39	86	34
Electromagnetic brake	F. C. Newell. (Reissue)	11,786	Nov. 7	975	209	89	1128
Electromagnetic cylinder-engine	G. H. B. Hooper	634,667	Oct. 10	1285	303	89	273
Electromagnetic friction-brake. Automatic	E. M. Tingley	633,969	Sept. 26	3292	767	88	2395
Electromagnetic instrument	G. E. L. Grabe	637,778	Nov. 28	3330	697	89	1682
Electromagnetic mechanism. Transmitting movement to a distance by	E. Raverot and P. Belly	626,009	May 30	3796	863, 864	87	1517
Electromechanical apparatus	A. D. Neal and H. F. Eaton	625,408	May 23	2646	601	87	1276
Electromedical apparatus	W. P. Sutton	633,223	Sept. 19	1945	457	88	2117
Electromedical apparatus	M. L. Whitfield	636,093	Oct. 31	4021	919	89	852
Electromedical appliance	J. A. Freeman	632,559	Sept. 5	650	151	88	1835
Electromedical battery	C. J. Marius	632,316	Sept. 5	199	45	88	1746
Electromotive devices. Automatic controlling system for	J. B. Blood and F. A. Merrick	632,039	Aug. 29	4273	961	88	1624
Electromotive-force regulation. Means for and method of	N. Rowe	620,365	Feb. 28	2863	655	86	1422
Electroplating apparatus	R. E. Goodrich	635,380	Oct. 24	2592	601	89	560
Electroplating apparatus	E. Hett	637,585	Nov. 21	2878	594, 595	89	1559
Electroplating-holder	W. Y. Buck	625,489	May 23	2792	635	87	1305
Electroplating. Method of and apparatus for	A. A. Blackman	626,361	June 6	282	64	87	1669
Electropneumatic controlling system	G. Westinghouse	624,277	May 2	608	131, 132, 133, 134	87	814
Electrotherapeutic and massage apparatus	O. Schneider	617,543	Jan. 10	1297	293	86	273
Electrotherapeutic apparatus	H. G. O'Neill	628,351	July 4	758	175	88	146
Electrotherapeutic bath	H. Stanger	633,164	Sept. 19	1822	428	88	2092
Electrotype	W. T. Barnum	622,939	Apr. 11	1363	313	87	278
Elevated carrier	P. G. Strickler	638,366	Dec. 5	351	74	89	1933
Elevating-machine. Hydraulic	S. L. Berry	632,829	Sept. 12	1187	271	88	1958
Elevating, transporting, and discharging material. Apparatus for	O. Johnson	636,902	Nov. 14	1281	276, 277	89	1207
Elevating, transporting, and discharging material. Apparatus for	O. Johnson	638,722	Dec. 12	1022	229, 230	89	2085
Elevator: *See* Boat-elevator. Cotton-elevator. Electric elevator. Grain-elevator. Hay-elevator. Inclined elevator. Material-elevator. Measuring-elevator. Passenger-elevator. Pneumatic elevator. Portable elevator. Revolving elevator. Safety-elevator. Straw-elevator. Water-elevator.							
Elevator	E. M. Fraser	617,305	Jan. 3	840	196	86	165
Elevator	E. M. Fraser	631,710	Aug. 22	3679	824	88	1498
Elevator	E. M. Fraser	638,918	Dec. 12	1355	309	89	2151
Elevator	J. Hadfield	623,901	Apr. 25	3153	726, 727	87	662
Elevator	C. I. Hall	636,202	Oct. 31	4211	969	89	892
Elevator	F. G. Hayes	620,585	Mar. 7	60	12	86	1514
Elevator	A. Ihlenfeldt	639,241	Dec. 19	1939	447	89	2278
Elevator	J. J. McCormick	621,475	Mar. 21	1737	387	86	1862
Elevator	R. J. Melius	635,499	Oct. 24	2856	652	89	612
Elevator	C. E. Moore	619,429	Feb. 14	1180	267	86	1058
Elevator	A. D. Morey	632,194	Aug. 29	4583	1032	88	1685
Elevator	N. Poulson	633,215	Sept. 19	1922	452	88	2112
Elevator	C. D. Seeberger	617,778	Jan. 17	1746	391, 392	86	377
Elevator	C. D. Seeberger	617,779	Jan. 17	1752	392, 393, 394, 395	86	378
Elevator	R. C. Smith	618,141	Jan. 24	2460	548	86	532
Elevator	W. F. Smith	630,417	Aug. 8	1333	299	88	996
Elevator	J. Stevens	621,546	Mar. 21	1875	415	86	1888
Elevator	H. R. Tracy	630,473	Aug. 8	1446	323	88	1018
Elevator	H. R. Tracy	634,513	Oct. 10	1020	243	89	221
Elevator	H. R. Tracy	635,362	Oct. 24	2561	596	89	555
Elevator	M. A. Wheaton	635,454	Oct. 24	2782	636	89	598
Elevator	G. A. Wheeler	617,788	Jan. 17	1781	399, 400	86	385
Elevator	G. A. Wheeler	617,789	Jan. 17	1785	400	86	386
Elevator-alarm. Electric	H. R. Bruhns	628,597	July 11	1210	283	88	254
Elevator and conveyer	E. C. Berghoefer	639,655	Dec. 19	2701	621, 622	89	2433
Elevator and conveyer	G. Haiss	618,343	Jan. 24	2822	627	86	599
Elevator attachment	E. Stoddard	624,260	May 2	577	123, 124	87	809
Elevator-brake. Safety	W. Hay	623,663	Apr. 25	2692	617	87	573
Elevator-buckets to their belts. Means for securing	A. V. Allen	629,707	July 25	3253	757	88	688
Elevator-cage escape	B. W. Haines and W. D. Creighton	627,257	June 20	1923	423	87	2026

Alphabetical list of inventions—Continued.

Invention.	Name.	No.	Date.	Monthly volume. Spec.	Monthly volume. Dr'g.	Official Gazette. Vol.	Official Gazette. Page.
Elevator-car	A. North and A. Paterson	618,124	Jan. 24	2421	540, 541	86	524
Elevator-car arrester with movable guide-strips	J. H. Johnson	632,414	Sept. 5	364	83	88	1778
Elevator-car safety apparatus	C. F. Ritchel	624,096	May 2	281	58	87	755
Elevator-car safety-brake	I. N. Rogers	619,227	Feb. 7	810	177	86	971
Elevator-cars. Apparatus for controlling movements of electric	G. Rennerfelt	625,060	May 16	2024	456	87	1133
Elevator-carrier	E. J. Hooker	632,118	Aug. 29	4432	996	88	1656
Elevator-controller	F. S. Braid	622,755	Apr. 11	1029	239	87	215
Elevator-controlling apparatus	M. B. McLauthlin	621,970	Mar. 28	2679	603, 604	86	2060
Elevator-controlling device	C. E. Foster	630,042	Aug. 1	597	130	88	842
Elevator-cylinder-alining device	G. H. Reynolds	617,357	Jan. 10	955	219	86	205
Elevator-door	D. J. Harding	618,664	Jan. 31	3438	766	86	731
Elevator-door-operating means	E. S. Robison	632,369	Sept. 5	287	66, 67	88	1764
Elevator-doors. Duplex latch for	S. Fisher	631,397	Aug. 22	3104	703	88	1385
Elevator-dump	P. H. Graves	627,184	June 20	1788	392	87	1999
Elevator-gate	F. W. Daeuble	628,925	July 18	1837	427	88	395
Elevator-gate	J. E. W. Fogal	619,400	Feb. 14	1117	252, 253	86	1047
Elevator-gate	J. E. W. Fogal	631,848	Aug. 29	3935	880	88	1558
Elevator-gates. Pneumatic check for	F. P. Hinds	621,669	Mar. 21	2089	467	86	1932
Elevator-guard	F. P. Hinds	621,670	Mar. 21	2090	467	86	1932
Elevator-guide	F. A. Bates	622,792	Apr. 11	1091	253	87	226
Elevator-indicator	H. Rowntree	638,992	Dec. 12	1501	344	89	2179
Elevator-landing-door-operating device	E. C. Akers	624,898	May 16	1749	395	87	1081
Elevator locking device	T. Van Kannel	623,850	Apr. 25	3061	704, 705	87	644
Elevator safety appliance	S. B. Trapp	634,966	Oct. 17	1813	429, 430	89	393
Elevator safety attachment	H. Baines	637,440	Nov. 21	2344	506	89	1429
Elevator safety attachment	G. Fox, 2d	622,945	Apr. 11	1371	315	87	280
Elevator safety device	U. S. Alz	628,260	July 4	577	137	88	112
Elevator safety device	C. W. Baldwin	637,496	Nov. 21	2447	531	89	1449
Elevator safety device	F. M. Bell	621,597	Mar. 21	1951	436, 437	86	1904
Elevator safety device	J. D. Griffen	628,090	July 4	243	55, 56	88	49
Elevator safety device	J. Meyer	617,537	Jan. 10	1289	292	86	271
Elevator safety device	L. W. G. Rolff	620,364	Feb. 28	2861	654, 655	86	1421
Elevator safety device	A. B. See and A. Cowperthwait	638,763	Dec. 12	1086	243, 244	89	2099
Elevator safety device	R. K. Terry and W. Grissom	630,424	Aug. 8	1354	302	88	1001
Elevator safety-lock	R. Butterworth	618,025	Jan. 17	2214	494	86	470
Elevator safety provision	L. C. Babcock	621,313	Mar. 21	1454	322	86	1809
Elevator safety-stop	N. O. Lindstrom	637,396	Nov. 21	2269	489	89	1414
Elevator safety-stop. Automatic	J. H. Johnson	632,415	Sept. 5	367	84	88	1778
Elevator speed regulating or controlling device	E. P. Forbes	635,679	Oct. 24	3178	732	89	674
Elevator-starting apparatus. Electric	D. H. Darrin	623,141	Apr. 18	1756	404	87	370
Elevator-stop. Automatic	J. G. Gracey	632,347	Sept. 5	249	59	88	1756
Elevator-switch. Electric	D. H. Darrin	623,142	Apr. 18	1758	404	87	370
Elevator swiveled spout	D. A. Robinson	622,019	Mar. 28	2760	622, 623	86	2077
Elevator vent device. Pneumatic	C. Bradford	620,270	Feb. 28	2692	617	86	1389
Elevator vent device. Pneumatic	J. K. Sharpe, Jr	619,844	Feb. 21	1942	441	86	1233
Elevator-wells. Automatic gate for	W. T. Lisenby and A. R. Baldwin	624,952	May 16	1844	414	87	1098
Elevators. Apparatus for operating electric signals for	H. Pedersen	629,302	July 18	2493	581, 582	88	520
Elevators. Automatic car safety device for electric	J. H. Johnson	632,651	Sept. 5	808	188	88	1867
Elevators. Automatic regulating device for hydraulic	F. E. Herdman	635,775	Oct. 31	3365	778, 779	89	723
Elevators. Automatic safety-lock for	C. S. Stokes	635,521	Oct. 24	2897	661	89	620
Elevators. Base chamber or seat for hydraulic	R. S. Moore	634,119	Oct. 3	253	63, 64	89	53
Elevators. Bearing for throwing-wheels for	G. W. Williamson	636,372	Nov. 7	248	54	89	971
Elevators. Controller for electrical	B. C. Van Emon	624,409	May 2	844	191	87	863
Elevators. Electric signaling apparatus for	S. D. Collett	634,229	Oct. 3	474	120, 121	89	97
Elevators. Electric signaling apparatus for	J. B. Smalley and C. A. Reiners	634,220	Oct. 3	444	115, 116	89	93
Elevators. Electric signaling device for	C. G. Armstrong	634,227	Oct. 3	467	119	89	96
Elevators. Speed-regulating device for hydraulic	F. E. Herdman	623,151	Apr. 18	1774	408	87	373
Elevators. Speed-regulating device for hydraulic	F. E. Herdman	623,152	Apr. 18	1779	409, 410	87	374
Elevators. Vent device for pneumatic	J. B. Schuman	620,854	Mar. 7	591	128	86	1619
Elliptic spring	C. A. Miller	636,828	Nov. 14	1140	245	89	1179
Elliptic spring	O. Morrill and H. P. Wells	627,869	June 27	3074	673	87	2270
Elliptic spring	J. S. Poyen	624,244	May 2	555	118	87	805
Embalming apparatus	C. R. Drake	618,069	Jan. 24	2320	517, 518	86	505
Embedded inclosures. Method of and means for constructing	W. H. Grow	625,258	May 16	2378	539, 540	87	1199
Embossing-die for burnishing-rolls	E. H. Wilkinson	628,593	July 11	1205	282	88	253
Embossing-dies. Apparatus for making	A. G. Beater	382,626	Sept. 5	747	171	88	1854
Embossing-machine	R. F. Emmerich	626,490	June 6	500	115, 116	87	1710
Embossing-machine die-plate	J. Eberhard	630,672	Aug. 8	1802	406	88	1086
Embossing-machine gage	H. S. Maidhof	633,362	Sept. 19	2209	519	88	2168
Embroidering and edging machine	E. and R. Cornely	626,367	June 6	297	67, 68	87	1671
Embroidering and edging machine	E. and R. Cornely	626,671	June 13	821	187, 188	87	1793
Embroidering-machine	J. A. Groebli	618,458	Jan. 31	3061	677, 678	86	659
Embroidering-machine	J. A. Groebli	637,458	Nov. 21	2377	514, 515	89	1435
Embroidering-machine. Hemstitch	J. Gutmann	627,748	June 27	2864	626	87	2230
Embroidering machine shuttle	J. J. Sonderegger	629,278	July 18	2454	569	88	512

Alphabetical list of inventions—Continued.

Invention.	Name.	No.	Date.	Monthly volume. Spec.	Monthly volume. Dr'g.	Official Gazette. Vol.	Official Gazette. Page.
Embroidery-frame	N. Allen	623,301	Apr. 18	2048	470	87	429
Embroidery-hoop	E. Doolittle	629,847	Aug. 1	170	40	88	754
Embroidery-ring	L. Gibbs	632,011	Aug. 29	4221	950	88	1614
Embroidery-ring	I. Q. Gurnee	627,821	June 27	2992	654	87	2254
Emergency-screen for paying-tellers	M. J. Carey	620,276	Feb. 28	2699	619	86	1390
Emery-wheel hood	O. Konrad	626,544	June 6	595	137	87	1729
Emery-wheels. Device for driving	J. W. Dickinson	620,893	Mar. 14	663	145	86	1645
Emery-wheels. Manufacture of substitute for	C. M. Pielsticker	621,702	Mar. 21	2149	------	86	1944
Emulsions. Separating	F. W. Arvine	629,059	July 18	2068	482	88	441
Enamel. Translucent	W. and W. B. Lutwyche	634,117	Oct. 3	248	------	89	53
Enameling compound and producing same	W. A. Hall	626,537	June 6	582	------	87	1727
Enameling on silver-leaf	C. C. Shirm	635,901	Oct. 31	3626	------	89	775
Enameling steel or homogeneous iron	W. F. and G. W. Niedringhaus	632,737	Sept. 12	1008	------	88	1920
End-board-rod fastening. Wagon-	S. C. Harris	622,353	Apr. 4	268	61	87	52
End-gate	J. C. Butler	634,875	Oct. 17	1662	392	89	363
End-gate fastener	F. A. Carlson	629,492	July 25	2871	667	88	614
End-gate fastener	M. T. Koch	617,104	Jan. 3	469	112	86	92
End-gate fastening. Wagon	T. L. Myers	634,121	Oct. 3	256	64	89	54
End-gate. Wagon	J. W. Brubaker	630,651	Aug. 8	1767	398	88	1079
End-gate. Wagon	A. W. Douglas	633,756	Sept. 26	2931	681	88	2322
End-gate. Wagon	J. F. Fairman	622,213	Apr. 4	31	7	87	9
End-gate. Wagon	W. F. Gatewood	634,555	Oct. 10	1100	261	89	237
End-gate. Wagou	J. J. Hayden	618,090	Jan. 24	2361	527	86	512
End-gate. Wagon	H. Monroe	634,951	Oct. 17	1779	422	89	386
End-gate. Wagon	O. H. Watkins	624,585	May 9	1176	264	87	951
End-gate. Wagon	H. Wittich	628,425	July 4	886	208	88	170
End-gate. Wagon dumping	W. S. Witter	625,006	May 16	1930	432, 433	87	1115
Engine: *See* Air and gas engine. Air-compressing engine. Blowing-engine. Car-engine. Carding-engine. Coal-cutting engine. Combustion-engine. Compound engine. Dental engine. Direct-acting engine. Drill-engine. Electromagnetic cylinder-engine. Expansion-engine. Explosive-engine. Explosive compression-engine. Fire-engine. Fluid-pressure engine. Gas-engine. Gas and steam engine. Gas motor-engine. Gas or gasolene engine. Gas or oil engine. Gas or steam engine. Gas or vapor engine. Gas-vapor motor-engine. Gasolene-engine. Gasolene or gas engine. Hydraulic engine. Internal-combustion engine. Locomotive-engine. Marine engine. Mining-engine. Motive engine. Motor-engine. Oil-engine. Paper-pulp-refining engine. Piston impact-engine. Press controlling-engine. Pulp-engine. Pumping-engine. Rag-engine. Reciprocating engine. Refining-engine. Riveting-engine. Rock-drilling engine. Rotary engine. Rotary-cylinder engine. Rotary power-engine. Rotary internal-combustion engine. Rotary reciprocating engine. Rotary steam-engine. Steam-engine. Steam and gas engine. Traction-engine. Triple-cylinder engine. Turbine engine. Vapor-engine. Vertical engine. Wind-engine.							
Engine	W. B. Brown	638,318	Dec. 5	245	51, 52	89	1913
Engine	G. D. Bumpus	638,624	Dec. 5	825	177, 178	89	2024
Engine	W. S. Colwell	617,807	Jan. 17	1818	406, 407	86	393
Engine	G. De Camp	628,397	July 4	836	195	88	160
Engine	G. De Camp and E. B. Roth	628,398	July 4	838	196	88	160
Engine	M. E. Durman	637,754	Nov. 21	3293	687	89	1656
Engine	F. J. Fette	626,005	May 30	3789	862	87	1516
Engine	A. Fischer	623,776	Apr. 25	2915	666	87	616
Engine	P. Gately	621,916	Mar. 28	2572	579	86	2040
Engine	J. R. George	630,881	Aug. 15	2153	489, 490	88	1180
Engine	I. B. Hammond	626,022	May 30	3830	869	87	1522
Engine	O. P. Hartman	617,249	Jan. 3	731	169	86	143
Engine	G. P. B. Hoyt	630,229	Aug. 1	917	201	88	903
Engine	O. Kinner	635,690	Oct. 24	3195	736	89	678
Engine	P. Lair	625,887	May 30	3528	801, 802	87	1466
Engine	T. L. Litwiller	623,168	Apr. 18	1810	414, 415	87	381
Engine	A. E. McCollum	617,762	Jan. 17	1713	385	86	372
Engine	W. H. Scott	625,471	May 23	2754	627	87	1296
Engine and dynamo. Combined	C. C. Cowan	632,896	Sept. 12	1318	302	88	1981
Engine and dynamo-electric machine. Combined	C. C. Cowan	632,897	Sept. 12	1319	303	88	1982
Engine attachment. Steam-	G. Palm	618,434	Jan. 31	3028	670	86	652
Engine. Carbureted-air or other fluid pressure	L. L. Revel	625,416	May 23	2663	605, 606, 607	87	1279
Engine controlling and regulating mechanism	T. H. Hicks	632,716	Sept. 12	972	225	88	1913
Engine cross-head and guide therefor	J. W. Eisenhuth	636,647	Nov. 7	752	164	89	1074

Alphabetical list of inventions—Continued.

Invention.	Name.	No.	Date.	Monthly volume. Spec.	Monthly volume. Dr'g.	Official Gazette. Vol.	Official Gazette. Page.
Engine cut-off. Locomotive-	M. Wilkes	628,569	July 11	1170	274	88	246
Engine cut-off mechanism	R. Sprado	624,698	May 9	1372	306	87	989
Engine-cylinder lubricating device. Steam-	A. H. Dingman	632,104	Aug. 29	4402	988	88	1649
Engine cylinders. Apparatus for cooling gas-	J. W. Lambert	624,827	May 9	1620	368	87	1038
Engine exhaust-muffler	F. Van Duzen	638,776	Dec. 12	1108	248	89	2103
Engine having two or more cylinders	R. L. Weighton and D. B. Morison	617,620	Jan. 10	1439	328	86	299
Engine igniter. Gas-	C. O. Carlson	628,448	July 11	935	217, 218	88	199
Engine igniter. Gas-	W. L. Crouch	619,396	Feb. 14	1109	251	86	1046
Engine igniter. Gas-	L. J. Hirt	620,924	Mar. 14	713	158	86	1653
Engine igniter. Gas-	C. H. Morse, Jr., and F. G. Hobart	630,624	Aug. 8	1725	386	88	1071
Engine igniter. Gas-	C. C. Riotte	626,394	June 6	341	79	87	1679
Engine igniters. Electric generator for gas-	B. McInnerney	638,933	Dec. 12	1384	316	89	2156
Engine indicator. Steam-	W. H. Harrison	631,463	Aug. 22	3218	731	88	1408
Engine indicator. Steam-	A. P. Kinney and E. Vaughan	618,420	Jan. 31	3003	665	86	648
Engine indicator. Steam-	W. G. and C. W. G. Little	622,504	Apr. 4	564	132, 133	87	106
Engine indicator. Steam-	J. C. Paige	619,049	Feb. 7	478	99, 100	86	903
Engine indicator. Steam-	P. G. Poole	633,532	Sept. 19	2491	586	88	2222
Engine-lubricating apparatus	B. C. Vanduzen	636,014	Oct. 31	3841	883	89	817
Engine-lubricating device	W. M. Musgrave	628,279	July 4	614	145, 146	88	119
Engine-lubricating device. Steam-	A. L. Ide. (Reissue)	11,730	Apr. 4	864	198	87	164
Engine muffler. Explosion-	E. J. Pennington	618,479	Jan. 31	3093	685	86	665
Engine or motor	W. S. Colwell	627,572	June 27	2539	558, 559	87	2164
Engine reversing-gear	D. Waits	622,934	Apr. 11	1352	311	87	276
Engine reversing-gear. Gas or petroleum	E. Petréano	632,743	Sept. 12	1018	236	88	1923
Engine reversing-link	P. J. Halloran	622,425	Apr. 4	400	92	87	75
Engine safety device. Corliss-	W. F. Bradbury and D. E. Washington.	638,621	Dec. 5	819	176	89	2022
Engine-starting device. Gas-	J. W. Raymond	636,452	Nov. 7	373	84	89	996
Engine-starting device. Hydrocarbon-	G. Struck	619,238	Feb. 7	830	182	86	975
Engine-stop	J. Brady	624,428	May 2	878	198, 199	87	870
Engine stop mechanism	P. Eckenroth	624,311	May 2	679	149	87	830
Engine stop mechanism	P. Eckenroth	624,312	May 2	681	150	87	831
Engine stop mechanism	J. Matthews	626,071	May 30	3910	888	87	1536
Engine stop mechanism	L. St. Peter	633,090	Sept. 12	1664	392	88	2050
Engine-stopping system. Steam-	A. J. Purinton and J. R. Reynolds	635,080	Oct. 17	2035	480	89	439
Engine vaporizer. Explosive-	B. C. Vanduzen	638,529	Dec. 5	651	135, 136	89	1990
Engine vaporizer. Gas-	W. Hay	635,166	Oct. 17	2204	514	89	470
Engine vaporizer. Gas-	C. C. Riotte	633,274	Sept. 19	2030	477, 478	88	2133
Engine wheel. Traction-	L. H. Seely	639,298	Dec. 19	2043	470	89	2300
Engines. Apparatus for injecting fuel into combustion-chambers of internal-combustion	P. F. Maccallum	626,840	June 13	1160	258	87	1856
Engines. Apparatus for preventing water-blows in steam-	A. Cejka	636,894	Nov. 14	1267	272, 273	89	1205
Engines. Apparatus for regulating admission of motive fluids to	A. B. Wilson	626,800	June 13	1068	240, 241	87	1840
Engines. Apparatus for starting internal-combustion	J. Edmondson and J. W. Dawson	631,206	Aug. 15	2743	621	88	1296
Engines. Automatic controlling-stop for	C. W. Boring	620,412	Feb. 28	2980	671	86	1434
Engines. Automatic safety-stop for	R. Kunz, Sr	618,177	Jan. 24	2545	562	86	546
Engines. Automatic shut-off mechanism for steam-	L. Da Rozir	629,778	Aug. 1	36	9	88	728
Engines. Automatic stopping mechanism for	V. E. Hunter	618,679	Jan. 31	3459	772	86	736
Engines. Combined distributer and regulator for explosive-	E. Brillié	638,440	Dec. 5	485	99	89	1960
Engines. Cut-off for portable or other	J. Abell	619,110	Feb. 7	598	128	86	927
Engines. Electric igniter for explosive-	F. E. Canda	617,806	Jan. 17	1814	406	86	392
Engines. Electric igniter for explosive-	J. H. Frew	623,778	Apr. 25	2917	667	87	617
Engines. Electric igniter for gas-	J. S. Blackburn	636,376	Nov. 7	255	56	89	972
Engines. Electric igniter for gas-	W. H. Cotton	634,430	Oct. 3	870	210	89	175
Engines. Electric igniter for gas-	E. W. Graef	622,893	Apr. 11	1286	297	87	262
Engines. Electric igniter for gas-	R. E. Olds	635,506	Oct. 24	2869	655	89	614
Engines. Electric igniter for gas-	J. W. Raymond	636,453	Nov. 7	375	84	89	997
Engines. Electric starting device for gas-	J. W. Raymond	634,541	Oct. 10	1070	255	89	231
Engines. Expansion-joint for	M. M. Suppes	638,891	Dec. 12	1308	297	89	2141
Engines. Fluid feeder or regulator for explosive-	A. Winton	627,372	June 20	2154	474	87	2074
Engines. Incandescent igniter for explosive-	C. R. Bolling	619,384	Feb. 14	1094	247	86	1043
Engines. Incandescent tube-igniter for gas-	G. Ey	639,025	Dec. 12	1547	355	89	2188
Engines. Incandescent tube-igniter for gas-	E. W. Graef	622,892	Apr. 11	1285	296	87	262
Engines. Indicator apparatus for fluid-pressure	A. K. Mansfield	635,791	Oct. 31	3404	785	89	733
Engines. Means for electric ignition for vapor-	C. C. Riotte	633,275	Sept. 19	2032	478	88	2133
Engines. Means for starting and regulating oil or gas	H. P. Thompson and L. Monté	626,252	June 6	60	14	87	1626
Engines. Mixing device for gasolene-	J. W. Lambert	634,242	Oct. 3	507	129, 130	89	103
Engines. Oil-vaporizing device for gas-	G. S. Strong	637,299	Nov. 21	2083	448	89	1376
Engines. Sparking-igniter for explosive-	G. S. Strong	637,302	Nov. 21	2088	450	89	1377
Engines. Speed-regulator for explosive-	G. V. L. Chauveau	636,634	Nov. 7	727	159	89	1068
Engines. Speed-regulator for explosive-	J. Froelich	626,275	June 6	99	26	87	1633
Engines. Speed-regulator for explosive-	J. A. Secor	623,567	Apr. 25	2528	581	87	543
Engines. Speed-regulator for explosive-	A. Winton	626,121	May 30	4034	921	87	1557
Engines. Speed-regulator for explosive-	A. Winton	626,122	May 30	4036	921	87	1557
Engines. Steam steering-gear for portable	L. Brown	626,484	June 6	491	114	87	1708
Engineering instrument	O. Kelly	638,846	Dec. 12	1225	276	89	2125
Engineer's alarm	H. De Wallace	623,503	Apr. 18	2398	551, 552	87	499
Engraver's block or work-holder	H. C. Clark	624,179	May 2	432	89	87	782
Engraving-machine	M. Kruse	630,546	Aug. 8	1580	352	88	1044
Engraving-machine	H. M. Ruden	629,210	July 18	2346	544, 545	88	492

Alphabetical list of inventions—Continued.

Invention.	Name.	No.	Date.	Monthly volume.		Official Gazette.	
				Spec.	Dr'g.	Vol.	Page.
Engraving-machine attachment	A. A. MacCallum	635,895	Oct. 31	3619	834	89	774
Engraving-machine. Pantograph	H. O. Fladva	638,411	Dec. 5	432	89, 90	89	1947
Engraving-machines. Grounding attachment for pantograph	J. and J. Hope, Jr	638,927	Dec. 12	1370	312, 313	89	2153
Engraving-plates. Composition for coating	T. H. Bell	626,016	May 30	3810		87	1519
Ensilage-cutter	O. E. Bray	635,464	Oct. 24	2800	639, 640	89	602
Entrenching-tool	J. C. Michie	634,696	Oct. 10	1336	316	89	283
Entries. Device for assisting in transferring	T. B. Paschall	633,481	Sept. 19	2409	567	88	2206
Envelop	S. A. Bragg	622,598	Apr. 4	744	172	87	141
Envelop	H. E. Dyer	619,015	Feb. 7	420	88	86	892
Envelop	C. Magnuson	626,710	June 13	904	205	87	1808
Envelop	J. Schaub	621,152	Mar. 14	1159	251	86	1738
Envelop	W. Wolfe	628,152	July 4	367	87	88	74
Envelop	H. D. Wolfersberger	618,632	Jan. 31	3372	751	86	718
Envelop. Adjustable	W. M. Lambert	634,115	Oct. 3	245	61	89	52
Envelop and letter-sheet and coin-carrier combined. Reversible	E. Duden	627,255	June 20	1909	420	87	2024
Envelop. Coupon check	J. L. Horn and J. Quinn, Jr	639,983	Dec. 26	3324	761	89	2575
Envelop-fastener	C. P. Schachman	635,000	Oct. 17	1875	445	89	406
Envelop-machine	W. S. Metcalfe	627,586	June 27	2561	564, 565	87	2168
Envelop-machine	A. A. Rheutan	620,613	Mar. 7	115	23	86	1524
Envelop-machine	J. West	635,213	Oct. 17	2281	532, 533, 534	89	484
Envelop-machine delivery attachment	M. D. Rider	636,291	Nov. 7	116	25, 26	89	945
Envelop-mucilating machine	R. E. Fischer	629,343	July 25	2600	602, 603	88	559
Envelop-opener	G. F. McKeever	627,758	June 27	2380	630	87	2234
Envelop-opener	R. D. Strang	636,468	Nov. 7	403	90	89	1002
Envelop. Reversible	P. I. McCabe	636,415	Nov. 7	312	71	89	984
Envelop. Reversible	N. P. Packard	631,939	Aug. 29	4088	917	88	1587
Epaulet-frame	H. D. Dobbs	636,501	Nov. 7	467	104	89	1015
Equalizer	C. R. Murray	630,306	Aug. 1	1070	234	88	933
Equipment-carrier	C. P. Nutter	639,429	Dec. 19	2298	531	89	2351
Equipoise-weight. Revolving adjustable	W. D. Hooker	632,684	Sept. 5	900	209	88	1888
Eraser attachment	R. B. Brown	630,774	Aug. 8	1962	443	88	1119
Eraser. Blackboard	C. L. Yeo	618,759	Jan. 31	3599	804	86	764
Eraser-cleaning machine	J. L. Smith	628,615	July 11	1236	288	88	259
Eraser. Stain	A. Levy	636,267	Nov. 7	73	17	89	937
Escapement	H. Ganney	635,720	Oct. 24	3275	757	89	693
Escapement mechanism	J. M. Fairfield and E. H. Dodge	635,957	Oct. 31	3718	859	89	792
Etching cylindrical surfaces	H. Lyon	628,587	July 11	1198	280	88	251
Etching metal plates	L. E. Levy	627,430	June 20	2271	501	87	2096
Ether. Obtaining	P. T. Fritzsche. (Reissue)	11,740	May 9	1741	393	87	1061
Evaporating and condensing apparatus	P. B. Viele	627,026	June 13	1510	329	87	1925
Evaporating apparatus	D. Augsburger	622,319	Apr. 4	215	49	87	41
Evaporating apparatus	D. T. Brand	630,174	Aug. 1	833	179	88	887
Evaporating device	O. T. Joslin	626,759	June 13	985	223	87	1823
Evaporating-pan	M. L. Dunham	631,958	Aug. 29	4121	928	88	1594
Evaporating-pan	B. Hoskins	640,135	Dec. 26	3585	825	89	2629
Evaporating-pan	W. G. Page	622,708	Apr. 11	956	220, 221	87	201
Evaporating-pan	G. H. Soule	635,876	Oct. 31	3568	821	89	763
Evaporator	W. B. Gere and I. S. Merrell	631,568	Aug. 22	3432	775, 776	88	1450
Evaporator	T. Kuzel	634,465	Oct. 10	937	223	89	205
Evaporator. Brine	T. Craney	626,971	June 13	1410	311	87	1906
Evaporator. Fruit	A. Berger	618,832	Feb. 7	25	5, 6	86	808
Evaporator. Fruit	B. Cunningham	630,187	Aug. 1	852	183	88	891
Evaporator. Fruit	B. Cunningham	636,245	Nov. 7	25	6	89	930
Evaporator. Fruit	D. M. Ellsworth	638,325	Dec. 5	258	54	89	1915
Evaporator. Fruit	P. B. Viele	632,602	Sept. 5	714	165	88	1847
Evaporator. Revolving fruit	J. W. Cameron	633,335	Sept. 19	2159	505, 506	88	2159
Evaporators, &c. Apparatus for cleaning tubes of	C. Markwort	632,532	Sept. 5	596	136	88	1826
Evener. Three-horse	R. C. Harris	632,869	Sept. 12	1250	285	88	1971
Evergreens. Machine for winding	H. G. Wittbold	634,050	Oct. 3	116	29	89	27
Excavating and conveying apparatus	F. B. Knight	629,695	July 25	3235	752, 753	88	684
Excavating and wagon-loading machine	W. H. Morenus	636,347	Nov. 7	195	43, 44	89	960
Excavating apparatus	S. Flory and A. A. Bruch	622,422	Apr. 4	397	92	87	73
Excavating apparatus	H. C. Lowrie	629,576	July 25	3021	705, 706, 707	88	643
Excavating apparatus	J. and W. Titus	639,004	Dec. 12	1520	348	89	2182
Excavating. Caisson	W. H. Gahagan	618,955	Feb. 7	290	63	86	867
Excavating-machine	J. F. Kazmir	637,993	Nov. 28	3735	785, 786	89	1764
Excavating-machine	J. Stubbs	619,802	Feb. 21	1870	426, 427	86	1218
Excavating-machine operated by traction	J. W. and E. A. Scott	626,725	June 13	928	210, 211	87	1812
Excavating or mining. Apparatus for facilitating	H. H. Francis	623,598	Apr. 25	2587	591	87	554
Excavating-scoop	J. E. Brown	627,387	June 20	2190	481, 482	87	2079
Excavator	G. W. King	635,047	Oct. 17	1959	464, 465	89	423
Excavator	I. P. Lambing	625,110	May 16	2126	483	87	1151
Excavator	A. F. Nims	621,938	Mar. 28	2606	587, 588	86	2045
Excavator	F. S. Reeder	639,934	Dec. 26	3220	738, 739	89	2553
Excavator	W. S. Russell	617,605	Jan. 10	1416	322	86	294
Excelsior-cutting machine	J. A. Manning	634,895	Oct. 17	1690	399	89	368

Alphabetical list of inventions—Continued.

Invention.	Name.	No.	Date.	Monthly volume.		Official Gazette.	
				Spec.	Dr'g.	Vol.	Page.
Excelsior-cutting machines. Slitting-knife for	W. J. D. Thompson	627,765	June 27	2891	632	87	2236
Excelsior-knife	D. T. H. Mackinnon	624,514	May 9	1051	236	87	926
Excelsior-machine	J. Fensom	633,822	Sept. 26	3032	705	88	2344
Exchange-table and computing-machine	B. E. Boyett	627,715	June 27	2806	614, 615	87	2217
Exercising apparatus	W. J. Bryon, Jr	629,655	July 25	3163	737, 738	88	671
Exercising apparatus	W. J. Bryon, Jr	634,080	Oct. 3	162	42	89	36
Exercising apparatus	W. L. Rushton	621,429	Mar. 21	1639	364	86	1844
Exercising apparatus. Electric	C. L. Fortier	638,232	Dec. 5	44	12	89	1876
Exercising apparatus. Electric muscular	A. B. McMillan	629,909	Aug. 1	304	68	88	779
Exercising device	A. A. Hendrickson	632,114	Aug. 29	4424	994	88	1654
Exercising device	A. C. Mueller	620,346	Feb. 28	2831	645	86	1415
Exercising-machine	A. A. Hendrickson	620,453	Feb. 28	3000	686	86	1447
Exercising-machine	H. Lübben	618,990	Feb. 7	381	79	86	884
Exercising machine. Finger-	W. Bonney	623,592	Apr. 25	2578	590	87	552
Exhibiting coins, &c. Device for	L. C. Whittlesey	638,785	Dec. 12	1126	251	89	2106
Exhibiting or displaying appliance	G. H. Brown and W. E. Burpee	629,232	July 18	2374	551	88	498
Exhibiting samples, &c. Device for	L. Stefany	623,636	Apr. 25	2645	605	87	563
Exhibiting-stand for price-lists	W. N. Stephan	630,755	Aug. 8	1926	435	88	1111
Exhibition and musical apparatus	A. J. Swaab and R. de Lamprecht	637,904	Nov. 28	3580	750	89	1734
Exhibition-cabinet	R. T. Swann	621,870	Mar. 28	2477	553	86	2023
Exhibition-case for exposing pocket-knives, &c	A. Wundes	629,840	Aug. 1	160	37	88	752
Exhibition-jar	J. P. Olney	632,321	Sept. 5	207	48	88	1748
Exhibitor and cabinet. Window-shade	L. P. Hamilton and H. K. Mourning.	623,543	Apr. 25	2484	571	87	534
Exhibitor and protector. Window-shade	T. H. Maytag	616,950	Jan. 3	165	37	86	33
Exhibitor. Card-	F. C. Watson	618,548	Jan. 31	3227	716	86	690
Exhibitor. Jewelry-	C. H. Buxton	635,711	Oct. 24	3228	743	89	685
Exhibitor. Silk-skein	L. Levinson	631,083	Aug. 15	2540	575	88	1256
Expanding bit for boring wood, &c	G. W. Green	622,463	Apr. 4	482	113	87	89
Expansion-bit	A. L. Adams	624,439	May 9	905	204	87	899
Expansion-bolt	K. and V. McCreery	623,809	Apr. 25	2974	681	87	628
Expansion-bolt	J. R. Rowlands	626,040	May 30	3864	876	87	1527
Expansion-drill	A. R. Heald	639,036	Dec. 12	1558	358	89	2190
Expansion-engine. Rotary	G. L. Van Gink	635,245	Oct. 17	2334	545	89	494
Expansion-joint separator	D. O'Hair	621,940	Mar. 28	2613	589	86	2047
Explosion engine or motor	F. R. Simms	617,660	Jan. 10	1514	344	86	315
Explosion engine or motor	F. R. Simms. (Reissue)	11,763	Aug. 1	1083	236	88	936
Explosion-motor	E. Fessard	639,160	Dec. 12	1768	408, 409	89	2231
Explosive	J. Karstairs	625,685	May 23	3117	------	87	1368
Explosive and making same	J. Karstairs	625,684	May 23	3116	------	87	1367
Explosive and making same	G. M. Peters	617,766	Jan. 17	1724	------	86	374
Explosive and making same	E. A. G. Street	625,908	May 30	3568	------	87	1472
Explosive compound	C. F. Hengst	640,160	Dec. 26	3627	------	89	2637
Explosive compression-engine. Automatic	F. Burger	623,980	May 2	46	10	87	710
Explosive-engine	C. R. Daellenbach	632,917	Sept. 12	1351	311, 312	88	1987
Explosive-engine	C. R. Daellenbach	632,918	Sept. 12	1354	312, 313	88	1988
Explosive-engine	L. B. Doman	625,839	May 30	3434	780	87	1448
Explosive-engine	T. C. Kennedy	621,572	Mar. 21	1911	427	86	1896
Explosive-engine	G. W. Lewis	620,941	Mar. 14	747	164, 165	86	1660
Explosive-engine	H. P. Maxim	620,602	Mar. 7	88	17, 18	86	1520
Explosive-engine	J. A. Secor	623,568	Apr. 25	2530	582	87	544
Explosive-engine	F. H. Smith	636,298	Nov. 7	126	27	89	947
Explosive-engine	H. Smith	624,555	May 9	1127	253	87	941
Explosive-engine	E. J. Stoddard	623,190	Apr. 18	1849	424	87	388
Explosive-engine	E. E. Truscott	617,372	Jan. 10	991	227, 228	86	212
Explosive-engine	J. Walrath	632,859	Sept. 12	1230	282, 283	88	1967
Explosive-engine	A. Winton	617,978	Jan. 17	2125	476	86	454
Explosive-engine	A. Winton	626,120	May 30	4031	920, 921	87	1556
Explosive-engine	A. Winton	636,606	Nov. 7	664	146	89	1056
Explosive-engine. Convertible compound	S. A. Hasbrouck	624,649	May 9	1283	287	87	970
Explosive-engine for vehicles	J. W. Eisenhuth	620,431	Feb. 28	2961	678, 679	86	1439
Explosive-motor	E. Brillié	618,638	Jan. 31	3382	753	86	720
Explosive-motor	W. Jasper	626,206	May 30	4201	955	87	1590
Explosives. Apparatus for making threads of	H. Hoffmann	620,775	Mar. 7	445	92	86	1588
Explosives. Apparatus for thawing	W. J. Smith	635,945	Oct. 31	3699	854	89	789
Explosives. Making	F. G. and F. I. Du Pont	633,611	Sept. 26	2681	624	88	2272
Explosives. Making	F. W. Jones	625,682	May 23	3112	------	87	1367
Explosives. Making	E. A. G. Street	625,365	May 23	2579	------	87	1263
Extensible platform	J. Burwell	622,666	Apr. 11	887	204	87	188
Extension-bracket	W. A. Nordyke	637,969	Nov. 28	3688	775, 776	89	1755
Extension-platform	G. E. Scymour and F. Kahler	635,401	Oct. 24	2649	611, 612	89	572
Extension-table	N. Alperin	623,062	Apr. 11	1569	362	87	320
Extension-table	W. R. Hallett	632,111	Aug. 29	4418	992	88	1653
Extension-table	A. J. Johnson	637,391	Nov. 21	2261	487	89	1412
Extension-table	J. T. La Turno	625,173	May 16	2224	505	87	1170
Extension-table	A. C. Mahaffy and G. W. Nigh	620,789	Mar. 7	468	97	86	1593
Extension-table	H. Mahncke	637,272	Nov. 21	2020	433	89	1364
Extension table	C. W. Munz	623,682	Apr. 25	2724	625	87	580
Extension-table	C. N. Smith	634,372	Oct. 3	763	181, 182	89	152
Extension-table	W. T. Temple	627,364	June 20	2143	471, 472	87	2072
Extension-table	R. F. Westerfield	624,716	May 9	1404	314	87	995
Extension-table	A. G. Wettergren and R. L. Treffurth	622,578	Apr. 4	708	165	87	135

Alphabetical list of inventions—Continued.

Invention.	Name.	No.	Date.	Monthly volume. Spec.	Monthly volume. Dr'g.	Official Gazette. Vol.	Official Gazette. Page.
Extractor: *See* Bolt-extractor. Bolt or pipe extractor. Butter-extractor. Coffee or tea extractor. Cork-extractor. Honey-extractor. Ingot-extractor. Lemon-juice extractor. Nail-extractor. Spike-extractor. Stopper-extractor. Stump-extractor.							
Extractor	T. Fairley	623,892	Apr. 25	3137	722	87	658
Extracts. Apparatus for making fluid	J. F. Duke	617,322	Jan. 10	875	205	86	190
Extracts. Making nutritive	O. G. C. L. J. Overbeck	632,968	Sept. 12	1433	------	88	2004
Eye-cup	B. F. Stephens	619,002	Feb. 7	399	83	86	887
Eye-strengthener	E. B. Carter	630,859	Aug. 15	2116	480	88	1173
Eyeglass attachment	C. A. Etherington, Sr	617,242	Jan. 3	721	167	86	141
Eyeglass-case	W. M. Purdy	636,176	Oct. 31	4169	957	89	884
Eyeglass-gage	L. A. Stevenson	626,575	June 6	645	149	87	1740
Eyeglass-guard	J. A. Broker	631,927	Aug. 29	4066	912	88	1583
Eyeglass-guard	S. Eastman	622,671	Apr. 11	897	205	87	190
Eyeglass-guard	E. Eggert	617,676	Jan. 10	1537	349	86	319
Eyeglass-guard	J. A. T. Obrig	621,939	Mar. 28	2611	589	86	2047
Eyeglass guard or clip	W. I. Dengler	636,498	Nov. 7	460	103	89	1013
Eyeglass guard or clip	R. Kabus	634,758	Oct. 10	1452	341	89	305
Eyeglass-holder	W. H. Bailey	622,658	Apr. 11	873	200	87	185
Eyeglass-holder	W. C. Kantner	629,035	July 18	2028	473	88	432
Eyeglass-holder	I. Phelps	636,416	Nov. 7	313	71	89	984
Eyeglass-holder	C. Roe	627,208	June 20	1824	399	87	2006
Eyeglass nose-guard	C. Billington	635,645	Oct. 24	3116	716	89	663
Eyeglass nose-guard	H. L. King	633,382	Sept. 19	2248	529	88	2175
Eyeglass nose-guard	C. K. Pevey	624,534	May 9	1088	245	87	933
Eyeglass or spectacle attachment	J. Currin	627,102	June 20	1650	361	87	1972
Eyeglass or spectacle case	H. E. Kirstein	636,811	Nov. 14	1113	238	89	1173
Eyeglass or spectacle case	W. Zoerb	624,887	May 9	1726	390	87	1058
Eyeglass or spectacle case	W. Zoerb and A. Becker	624,603	May 9	1210	272	87	957
Eyeglass or spectacle cases. Device for holding	T. Gaskins	632,561	Sept. 5	652	151	88	1836
Eyeglasses	E. F. Elwood	628,930	July 18	1851	429	88	397
Eyeglasses	H. Fennell	637,199	Nov. 14	1889	406	89	1323
Eyeglasses	W. B. Greene	626,536	June 6	581	135	87	1727
Eyeglasses	L. B. Hilborn	623,212	Apr. 18	1882	431	87	395
Eyeglasses	R. C. Hines	630,887	Aug. 15	2162	491	88	1187
Eyeglasses	L. E. Kirstein	627,196	June 20	1804	396	87	2003
Eyeglasses	A. Licht	631,170	Aug. 15	2687	607	88	1284
Eyeglasses	W. V. McGurn	619,085	Feb. 7	542	114	86	916
Eyeglasses	C. E. Norton	622,779	Apr. 11	1069	248	87	222
Eyeglasses	E. E. Pequegnat	635,508	Oct. 24	2873	655	89	615
Eyeglasses	W. F. Todd	633,670	Sept. 26	2776	645	88	2291
Eyeglasses	A. S. Weaver	636,595	Nov. 7	643	141	89	1052
Eyeglasses. Adjustable nose-guard for	S. S. Grant	629,991	Aug. 1	494	108	88	820
Eyeglasses and spectacles	D. H. Ludlow	635,494	Oct. 24	2849	650	89	611
Eyeglasses. Mounting for	G. A. Squier	631,533	Aug. 22	3351	762	88	1435
Eyeglasses or spectacles	H. Abbott	618,760	Jan. 31	3600	804	86	764
Eyeglasses or spectacles	A. Kahn	619,578	Feb. 14	1415	325	86	1104
Eyeglasses or spectacles. Mounting for lenses of frameless	J. Currin	625,245	May 16	2352	535	87	1194
Eyeglasses or spectacles. Mounting for rimless	J. Currin	616,904	Jan. 3	71	15	86	16
Eyelet	E. Kempshall	639,997	Dec. 26	3346	765	89	2579
Eyelet	D. C. See	628,165	July 4	388	91	88	79
Eyelet	E. L. Sibley	634,564	Oct. 10	1115	265	89	240
Eyeleting-machine	H. H. Buffum	626,050	May 30	3876	880, 881	87	1529
Eyeleting-machine	P. R. Glass	628,309	July 4	681	159, 160	88	131
Eyeleting-machine	P. R. Glass	636,035	Oct. 31	3873	890, 891	89	823
Eyeleting-machine	D. N. Prime	636,175	Oct. 31	4164	955, 956	89	883
Eyeleting-machine	J. Pusey	626,722	June 13	922	209	87	1811
Eyeleting-machine	W. L. Whittemore	628,291	July 4	645	150, 151	88	125
Eyeleting-machine	W. L. Whittemore and P. R. Glass	628,289	July 4	629	149	88	122
Eyeleting-machine	W. L. Whittemore and P. R. Glass	628,290	July 4	634	149, 150	88	122
Eyeleting-machine gage	W. L. Whittemore and P. R. Glass	628,423	July 4	882	208	88	169
Eyeleting-machine. Gang	G. Knight	627,340	June 20	2077	459	87	2058
Eyeleting-machine. Gang	G. Knight	627,341	June 20	2080	460	87	2059
Eyeleting-machine. Gang	G. Knight. (Reissue)	11,782	Oct. 31	4285	984	89	905
Eyeleting-machine. Power	R. B. Smith	638,994	Dec. 12	1507	345	89	2180
Fabric: *See* Carpet fabric. Elastic fabric. Knit fabric. Knitted fabric. Printed fabric. Roofing fabric. Spangled fabric. Textile fabric. Wire fabric. Woven fabric.							
Fabric	R. R. Smith	630,573	Aug. 8	1626	363	88	1053
Fabric-folding machine	A. Davuergne	630,189	Aug. 1	856	184	88	891
Fabric-trimming machine	R. Lefort	632,314	Sept. 5	197	45	88	1746
Fabric turfing and embroidering machine	J. Henry	630,456	Aug. 8	1411	315, 316	88	1011
Fabrics. Making colored designs on woven	F. Rettig	617,772	Jan. 17	1732	------	86	375
Face-protector	E. Musselman	631,375	Aug. 22	3059	692	88	1376
Fair-leader. Adjustable	W. F. Murray	618,607	Jan. 31	3329	740	86	710
Fan	F. and A. S. Lyons	625,179	May 16	2233	507	87	1171
Fan and churn. Combined	J. C. Foreaker	630,877	Aug. 15	2146	487	88	1179
Fan and pump. Centrifugal	G. M. Capell	617,520	Jan. 10	1248	285	86	263
Fan attachment	W. R. Blevins	628,744	July 11	1504	348	88	314
Fan. Electric	C. B. Nichols and C. A. Erdin	626,209	May 30	4206	956	87	1591
Fan. Electric	S. L. Shellenberger	623,433	Apr. 18	2280	522	87	476

Alphabetical list of inventions—Continued.

Invention.	Name.	No.	Date.	Monthly volume. Spec.	Monthly volume. Drg.	Official Gazette. Vol.	Official Gazette. Page.
Fan-motor	J. A. Craine	618,056	Jan. 24	2277	508	86	497
Fan-motor	C. H. Von Hohenstein	619,058	Feb. 7	498	104, 105	86	907
Fan motor. Ceiling	H. H. Wait	636,871	Nov. 14	1220	264	89	1195
Fan-motor. Prepayment electric	W. C. Fish and F. P. Cox	619,293	Feb. 14	945	214	86	1013
Fan or paddle wheel. Rotary	W. J. Fitch	637,105	Nov. 14	1674	363	89	1282
Fan. Ventilating	H. L. Parker	632,740	Sept. 12	1011	235	88	1921
Faradic battery. Duplex	J. H. Robertson	619,440	Feb. 14	1197	271	86	1061
Fare-box. Registering	O. Katzenberger	621,921	Mar. 28	2576	581	86	2041
Fare-receiver	S. C. Houghton	621,087	Mar. 14	1035	227	86	1713
Fare-register	W. N. Brewer	622,881	Apr. 11	1265	292	87	259
Fare-register	S. C. Houghton	628,223	July 4	487	117, 118	88	97
Fare-register	J. J. Kennelly	616,932	Jan. 3	127	28, 29	86	26
Fare-register	J. J. Kennelly	616,934	Jan. 3	133	30, 31	86	27
Fare-register	G. Rein	624,091	May 2	258	54, 55, 56	87	750
Fare-register	G. F. Rooke	625,418	May 23	2670	608	87	1280
Fare-register	G. F. Rooke	629,471	July 25	2821	655, 656	88	606
Fare-registers. Mechanism for operating	J. F. Ohmer and H. Tyler	635,343	Oct. 24	2510	583, 584	89	544
Farm-gate	G. A. Brown	629,420	July 25	2731	634	88	588
Farm-gate	T. F. De Witt	639,963	Dec. 26	3285	752	89	2567
Farm-gate	M. M. Dungan	618,852	Feb. 7	61	13	86	816
Farm-gate	M. M. Dungan	632,255	Sept. 5	86	19	88	1724
Farm-gate	M. M. Dungan	632,256	Sept. 5	87	19	88	1724
Farm-gate	W. B. Miller	635,570	Oct. 24	2983	684	89	636
Farm-gate	L. Vernon	622,735	Apr. 11	994	230, 231	87	208
Farm-gate	D. M. Waugh	622,302	Apr. 4	189	41	87	35
Farm or stock gate	J. W. Baker	621,552	Mar. 21	1886	418	86	1891
Farrier's knife	T. J. Pope	632,846	Sept. 12	1215	278	88	1964
Farrier's tool	W. M. Thurber	632,072	Aug. 29	4341	975	88	1636
Fastener	C. A. Bryant	620,223	Feb. 28	2612	593	86	1372
Fastener	P. S. Elliott	635,758	Oct. 31	3339	772	89	719
Fastener	J. L. Kingston	625,567	May 23	2928	665	87	1330
Fastener	W. S. Seymour	621,859	Mar. 28	2454	547	86	2018
Fastener for envelops, &c. Metal	H. C. Holcombe, J. W. and F. M. Maddox.	628,324	July 4	715	166	88	137
Fastener for garments, &c	A. N. Bullens	637,445	Nov. 21	2353	508	89	1431
Fastener for gloves, &c	W. S. Richardson	623,688	Apr. 25	2738	627	87	582
Fastener or clasp	N. Crane	632,225	Aug. 29	4625	1042	88	1693
Fastener. Separable	G. E. Adams	617,624	Jan. 10	1451	331	86	302
Fastener. Separable	G. E. Adams	624,896	May 16	1745	394	87	1081
Fastener stud member. Detachable	E. Pringle	628,035	July 4	135	28	88	28
Fastener stud member. Separable	G. E. Adams	617,269	Jan. 3	770	180	86	151
Fastener stud member. Separable	G. E. Adams	627,961	July 4	1	1	88	3
Fasteners for gloves, &c. Die for shaping and attaching socket members of	W. S. Richardson	635,188	Oct. 17	2236	521	89	476
Fasteners. Stud member for separable	G. E. Adams	628,618	July 11	1243	290	88	260
Fasteners. Tool for setting	R. C. Annand	630,476	Aug. 8	1450	324	88	1019
Fasteners. Tool for setting members of separable	G. E. Adams	619,651	Feb. 14	1561	355	86	1132
Fastening device	C. A. Feeser	621,913	Mar. 28	2568	579	86	2039
Fastening device	D. W. Ikeler	622,769	Apr. 11	1056	244	87	220
Fastening device	P. F. King	635,858	Oct. 31	3535	812	89	757
Fastening device	A. Leblanc	628,203	July 4	459	110	88	91
Fastening device	H. K. Leonard	627,808	June 27	2968	649	87	2250
Fastening device	W. E. Lindsay	623,167	Apr. 18	1810	414	87	381
Fastening device	J. T. Robin	639,940	Dec. 26	3230	741	89	2556
Fastening device	L. A. Valdettaro	623,193	Apr. 18	1854	425	87	389
Fastening device for wearing-apparel	J. T. Robin	637,286	Nov. 21	2046	439	89	1368
Fastening device or clasp	C. A. Pierce	635,077	Oct. 17	2029	479	89	438
Fastening. Separable	W. G. Crimmin	626,973	June 13	1413	312	87	1907
Fastening. Tubular	W. S. Richardson	621,541	Mar. 21	1862	413	86	1886
Fats. Refining	I. Klimont and O. Nagel	637,131	Nov. 14	1753	376	89	1297
Faucet	A. Engel	636,777	Nov. 14	1059	226	89	1163
Faucet	D. D. L. Farson	628,931	July 18	1853	429	88	397
Faucet	C. S. Frishmuth	628,786	July 11	1580	364	88	329
Faucet	G. J. Habermann	625,725	May 23	3186	724	87	1381
Faucet	F. Hassis	620,124	Feb. 28	2439	551	86	1340
Faucet	F. Hawes	618,227	Jan. 24	2624	580	86	561
Faucet	E. Randolph	632,747	Sept. 12	1027	238	88	1924
Faucet	E. W. Thayer	626,578	June 6	648	150	87	1740
Faucet	E. N. West	628,258	July 4	574	137	88	112
Faucet	J. B. Woodworth	639,484	Dec. 19	2402	552, 553	89	2372
Faucet and attachment therefor	A. E. Warwick	623,640	Apr. 25	2654	607	87	565
Faucet and fluid-drawer. Integral	C. H. Bradley	630,173	Aug. 1	831	179	88	887
Faucet and scale. Automatic liquid-weighing	E. Grueninger	630,808	Aug. 8	2026	457	88	1132
Faucet and trimmings. Basin	J. Totham	638,611	Dec. 5	800	173	89	2019
Faucet attachment for casks, barrels, &c	F. C. Burgholz	627,716	June 27	2808	615	87	2218
Faucet. Automatic	P. Barclay	630,315	Aug. 8	1091	238	88	952
Faucet. Beer	A. Liese	636,210	Oct. 31	4234	974	89	896
Faucet. Can	G. F. Tong	620,262	Feb. 28	2682	615	86	1387
Faucet-coupling. Multiple-delivery	T. G. Strater	626,447	June 6	430	101	87	1697
Faucet for draining jardinières, &c	H. Waterer	630,144	Aug. 1	779	168	88	877
Faucet. Measuring	E. Boening	623,302	Apr. 18	2049	470	87	429
Faucet. Measuring	J. J. Kennelly	635,256	Oct. 17	2353	549	89	497
Faucet. Measuring	L. A. Scholz	637,672	Nov. 21	3145	651	89	1626
Faucet Measuring	G. B. Webb	629,834	Aug. 1	146	34	88	750
Faucet or tap	G. Rawlins	629,304	July 18	2502	583	88	521
Faucet register. Measuring	J. Rombach	635,189	Oct. 17	2238	521	89	477
Faucet. Self-closing	G. K. Cooke	630,184	Aug. 1	848	182	88	890
Faucet. Venting	L. Barger	629,327	July 25	2557	594	88	552

Alphabetical list of inventions—Continued.

Invention.	Name.	No.	Date.	Monthly volume.		Official Gazette.	
				Spec.	Dr'g.	Vol.	Page.
Faucet. Venting-	A. M. Shauck	639,103	Dec. 12	1680	388	89	2214
Faucets. Fluid-drawer and means for attaching same to	C. H. Bradley	636,751	Nov. 14	1003	214	89	1151
Feather	A. Wurzburger	622,835	Apr. 11	1171	272	87	240
Feather-renovator	W. W. G. Reed	618,481	Jan. 31	3096	686	86	666
Feather-renovator	T. J. Shreeve	629,929	Aug. 1	360	79	88	793
Feathers to hats. Device for attaching	G. W. Shailer	621,770	Mar. 21	2289	514	86	1970
Feed-bag	E. Dawson	628,451	July 11	939	218	88	200
Feed-bag	H. G. Weibezahl	633,676	Sept. 26	2795	651	88	2295
Feed-box	A. Calhoun	635,125	Oct. 17	2131	499	89	456
Feed-box	W. V. Evans	623,001	Apr. 11	1468	338, 339	87	299
Feed-box	F. Hachmann	633,693	Sept. 26	2826	656	88	2302
Feed-box grain-saving attachment	E. M. Pumphrey	624,087	May 2	251	53	87	749
Feed crusher and grinder	O. J. Ziegler	625,081	May 16	2061	462, 463	87	1139
Feed-cutter	O. E. Bray	639,015	Dec. 12	1534	352	89	2185
Feed-cutter	A. Mills	632,192	Aug. 29	4580	1031	88	1684
Feed-cutter box	P. Klumb	622,694	Apr. 11	935	216	87	197
Feed device for small work-pieces	F. A. Meischner	617,990	Jan. 17	2148	479	86	457
Feed from distillery-slop. Means for gaining dry	T. Hayes	625,762	May 30	3278	743	87	1418
Feed-gage	J.W. McCalment and W. E. Williams	618,897	Feb. 7	136	30	86	831
Feed-mill	W. C. F. Zimmerman	626,125	May 30	4040	922	87	1558
Feed-regulator	T. Ashley, Jr	625,635	May 23	3043	693	87	1354
Feed-regulator	A. B. Helbig	639,897	Dec. 26	3155	726	89	2539
Feed-reversing mechanism and stop-motion	H. L. Flather	617,567	Jan. 10	1350	304, 305	86	282
Feed-roll	F. L. Lane	621,103	Mar. 14	1069	233	86	1720
Feed-table attachment	C. G. Harris	638,634	Dec. 5	842	183	89	2028
Feed-trough	E. A. Losee	621,355	Mar. 21	1525	339	86	1823
Feed-trough	J. W. Schneider	627,356	June 20	2110	467	87	2064
Feed-trough	W. H. Wellsteed	634,927	Oct. 17	1739	413	89	378
Feed-trough	W. Zonker	629,415	July 25	2720	631	88	586
Feed-water and feeding boilers. Apparatus for purifying	C. F. Bainter	637,223	Nov. 21	1936	414	89	1347
Feed-water apparatus	J. S. Carter	635,233	Oct. 17	2317	541	89	491
Feed-water heater	L. Carrer	639,522	Dec. 19	2457	567	89	2383
Feed-water heater	J. W. Casey	627,980	July 4	39	9	88	10
Feed-water heater	E. C. Curtis	621,037	Mar. 14	959	209	86	1699
Feed-water heater	H. Fellenbaum	634,884	Oct. 17	1674	395	89	365
Feed-water heater	C. E. Ferreira	631,363	Aug. 22	3063	688, 689	88	1372
Feed-water heater	A. T. Hillman	627,302	June 20	2001	440	87	2043
Feed-water heater	C. H. Hutchinson	623,216	Apr. 18	1891	434	87	396
Feed-water heater	L. C. Lanphear	631,426	Aug. 22	3160	717	88	1396
Feed-water heater	H. A. Millar	628,344	July 4	749	173	88	144
Feed-water heater and pump. Locomotive	L. D. Copeland	624,303	May 2	665	145	87	827
Feed-water heater and purifier	G. F. Day	621,775	Mar. 21	2296	516	86	1972
Feed-water heater and purifier	G. W. Laughton	629,723	July 25	3289	767	88	695
Feed-water heater and purifier	C. H. Miller	627,198	June 20	1806	396	87	2003
Feed-water heater and purifier	W. H. Smith	619,513	Feb. 14	1316	302	86	1088
Feed-water heater and purifier	T. Willebrand	627,167	June 20	1759	386	87	1993
Feed-water heater. Boiler	C. Adams	639,128	Dec. 12	1721	397	89	2221
Feed-water heater for water-tube boilers	J. Miyabara	633,699	Sept. 26	2836	659, 660	88	2304
Feed-water heater. Steam-boiler	M. N. Forney	632,708	Sept. 12	956	222	88	1910
Feed-water purifier	N. L. Hayden	631,571	Aug. 22	3438	777	88	1452
Feed-water purifier and boiler-skimmer	H. M. Nye	624,963	May 16	1864	418	87	1102
Feed-water purifier and heater for steam-boilers	H. F. Howard	622,805	Apr. 11	1114	259	87	231
Feed-water regulator	D. Almy	617,517	Jan. 10	1243	284	86	262
Feed-water regulator	J. Nutting	627,760	June 27	2882	630	87	2234
Feed-water regulator. Automatic	A. E. Burrows	618,981	Feb. 7	366	75, 76	86	881
Feed-water regulator. Automatic	F. M. Chappell	635,126	Oct. 17	2132	499, 500	89	457
Feed-water regulator. Automatic	H. H. Dyke	618,265	Jan. 24	2694	596	86	574
Feed-water regulator for boilers	H. Bowles	630,171	Aug. 1	828	179	88	886
Feed-water regulator for boilers	E. W. Marsh	624,836	May 9	1639	371	87	1042
Feed-water system. Steam-boiler	E. A. Clousnitzer	631,735	Aug. 22	3727	837	88	1507
Feeder and purifier. Boiler	F. Pye	634,272	Oct. 3	570	140	89	114
Feeder and waterer. Stock	H. J. Bolinski	632,171	Aug. 29	4523	1018	88	1674
Feeder. Automatic shake-	J. B. Cornwall	631,485	Aug. 22	3260	741	88	1416
Feeder. Boiler-	O. J. Scott	618,484	Jan. 31	3103	687, 688	86	667
Feeder. Calf-	J. B. Learned	631,798	Aug. 29	3857	859	88	1542
Feeder for steam-boilers. Automatic compound	C. P. Hall	637,250	Nov. 21	1986	426	89	1357
Feeder for steam-boilers. Automatic water-	C. B. Hanthorn and A. Welch	634,339	Oct. 3	712	170	89	143
Feeding and weighing machine	P. C. Waring	628,879	July 11	1744	408	88	359
Feeding apparatus. Boiler-	J. Scott	629,615	July 25	3104	723	88	660
Feeding device	F. W. Vickery	625,910	May 30	3572	810	87	1473
Feeding device for boilers. Automatic	F. J. Weiss	623,229	Apr. 18	1909	438	87	401
Feeding device. Poultry-	G. E. Littlefield	631,895	Aug. 29	4008	897	88	1573
Feeding-machine	H. P. Feister	617,151	Jan. 3	565	133	86	110
Feeding-machine. Pneumatic	W. Carter	639,960	Dec. 26	3278	750, 751	89	2566
Feeding mechanism	L. C. Crowell	626,675	June 13	833	190, 191	87	1795
Feeding mechanism	L. C. Crowell	626,676	June 13	838	191	87	1796
Feeding mechanism	C. Leffler	637,938	Nov. 28	3637	763	89	1745
Felly-shield	A. N. Poe	623,823	Apr. 25	3000	687	87	633
Felly-trough	F. S. Briggs	630,481	Aug. 8	1457	326	88	1021
Felt mat	W. G. Faatz	628,980	July 18	1928	449	88	412
Felt. Plastic	A. Gentzsch	637,776	Nov. 28	3329	------	89	1681
Fence	E. C. Emerton and W. L. Godfrey	619,684	Feb. 14	1616	369	86	1143
Fence	A. E. Lycan	628,102	July 4	281	66	88	55
Fence	C. J. Quinn	616,970	Jan. 3	194	45	86	38
Fence	A. Reisinger and V. L. Caple	631,670	Aug. 22	3595	810	88	1484

Alphabetical list of inventions—Continued.

Invention.	Name.	No.	Date.	Monthly volume. Spec.	Monthly volume. Dr'g.	Official Gazette. Vol.	Official Gazette. Page.
Fence	L. A. Short	628,167	July 4	391	92	88	79
Fence clips. Device for forming wire	D. Frankford	627,914	June 27	3164	693	87	2291
Fence. Combined hedge and wire	L. W. Young	619,007	Feb. 7	406	85	86	889
Fence. Combined hedge and wire	L. W. Young	630,640	Aug. 8	1749	392	88	1076
Fence device. Wire	C. A. Burnham	630,653	Aug. 8	1771	399	88	1080
Fence dropper. Wire	W. A. Conroy and J. W. Manchee	636,719	Nov. 7	899	199	89	1106
Fence end post and brace. Wire	R. R. Spoore	625,278	May 16	2413	546	87	1204
Fence fabric. Woven-wire	J. S. Burton	623,765	Apr. 25	2860	655	87	606
Fence. Flood	C. N. Waldran and J. W. Willey	638,035	Nov. 28	3829	806	89	1782
Fence. Iron	J. F. Ploeger	617,993	Jan. 17	2153	480	86	458
Fence. Iron	G. D. Sheer	618,741	Jan. 31	3566	796	86	756
Fence-lock	A. Ellison	631,284	Aug. 22	2895	655	88	1344
Fence lock. Wire	G. R. Lamb	636,535	Nov. 7	540	119	89	1030
Fence-machine	S. H. Cook	620,643	Mar. 7	189	39	86	1538
Fence-machine	N. A. Fielder	630,875	Aug. 15	2142	486	88	1178
Fence-machine	W. H. Jones	638,968	Dec. 12	1443	329	89	2168
Fence-machine	J. M. Keith	619,758	Feb. 21	1765	405	86	1197
Fence-machine	J. A. Park	624,532	May 9	1082	243, 244	87	932
Fence-machine	G. P. A. Weisenborn	635,365	Oct. 24	2564	596	89	555
Fence-machine	A. D. Wilkinson	617,001	Jan. 3	263	59	86	53
Fence-machine. Portable	T. J. Armstrong	618,819	Feb. 7	2	1	86	803
Fence machine. Slat-and-wire	M. Plummer	636,840	Nov. 14	1159	251	89	1183
Fence machine. Wire	J. Bennington	627,969	July 4	18	4	88	6
Fence machine. Wire	A. H. Cook	635,302	Oct. 24	2450	570	89	533
Fence machine. Wire	G. O. Meservey	639,749	Dec. 26	2891	666	89	2488
Fence machine. Wire	G. L. Miller	624,520	May 9	1062	240	87	928
Fence machine. Wire	A. B. Probasco	632,746	Sept. 12	1025	237, 238	88	1924
Fence machine. Wire	J. A. and A. M. Scheyhing	637,291	Nov. 21	2054	441	89	1370
Fence machine. Wire	E. S. Scofield	619,355	Feb. 14	1042	234	86	1033
Fence machine. Wire	M. H. Starling	626,107	May 30	4002	912, 913	87	1551
Fence machine. Wire-and-picket	J. R. Jones	616,930	Jan. 3	124	28	86	26
Fence-making machine	M. D. Pendergast and J. M. Whidden.	628,253	July 4	556	133, 134, 135, 136	88	109
Fence-making machine. Wire	J. C. Perry	619,692	Feb. 14	1632	372, 373, 374, 375	86	1146
Fence-making machine. Wire	J. C. Perry	633,213	Sept. 19	1908	449, 450	88	2110
Fence-making machine. Wire	A. Smith	619,628	Feb. 14	1508	345	86	1122
Fence-picket fastener. Wire	R. N. Martz	637,634	Nov. 21	3069	635	89	1611
Fence. Portable	W. Bougeno	623,700	Apr. 25	2757	631	87	585
Fence. Portable	J. C. Simmons	629,529	July 25	2950	687	88	630
Fence-post	I. V. Alter	624,724	May 9	1415	317	87	997
Fence-post	O. Andrew	633,062	Sept. 12	1585	369	88	2034
Fence-post	G. A. Dieckmann	618,066	Jan. 24	2315	516	86	504
Fence-post	H. J. Donahoe	623,205	Apr. 18	1873	429	87	393
Fence-post	J. Nixon	626,083	May 30	3937	894	87	1541
Fence-post	J. S. Mullenix	632,966	Sept. 12	1431	330	88	2003
Fence-post	O. E. Newquist	628,208	July 4	467	112	88	93
Fence-post	J. A. Riggs	623,181	Apr. 18	1832	419	87	384
Fence-post	A. N. Sharrock	631,131	Aug. 15	2620	593	88	1271
Fence-post	D. Vaniman	618,304	Jan. 24	2764	612	86	588
Fence-post	I. M. Warner	621,000	Mar. 14	871	190	86	1683
Fence-post	L. E. Waterbury	619,030	Feb. 7	447	94	86	897
Fence-post	W. C. Zickefoose	633,497	Sept. 19	2435	573	88	2211
Fence-post attachment	W. H. Sawyer	636,855	Nov. 14	1180	256	89	1187
Fence-post. Auger-pointed	H. Sheldon and S. A. Lockwood	624,987	May 16	1903	427	87	1110
Fence-post base	W. Perry	634,672	Oct. 10	1202	304	89	275
Fence-post bracket	H. W. Timmons	631,138	Aug. 15	2629	595	88	1273
Fence-post metal base	O. M. Knox	638,583	Dec. 5	746	160	89	2009
Fence-post-setting apparatus	D. O. and J. H. Baer and G. W. Dunbar.	623,064	Apr. 11	1572	363	87	321
Fence post-winder. Wire	C. L. Etheridge	625,662	May 23	3086	702	87	1362
Fence-posts. Coating metallic	R. Kennedy	622,009	Mar. 28	2746	------	86	2074
Fence-rail support. Metallic	R. C., Jr., and W. A. Stewart	626,733	June 13	943	214	87	1815
Fence-ratchet	W. H. Mason	636,158	Oct. 31	4132	946	89	875
Fence-repairing tool	W. W. Ramsay	633,155	Sept. 19	1804	424	88	2088
Fence-spacing device. Wire	J. T. Collins	632,987	Sept. 12	1462	340	88	2010
Fence staple. Wire	A. W. West	636,018	Oct. 31	3848	884	89	818
Fence-stay	H. W. Dorsett	626,599	June 6	683	157	87	1747
Fence-stay	W. H. Johnson and S. D. Fry	621,496	Mar. 21	1775	395	86	1869
Fence-stay attacher and spacer. Wire	G. W. Williams	638,371	Dec. 5	357	74	89	1934
Fence stay. Wire	S. E. Jackson	620,590	Mar. 7	71	14	86	1517
Fence stay. Wire	R. B. Leatherman	617,442	Jan. 10	1123	256	86	237
Fence stay. Wire	A. W. and T. E. Morgan	631,936	Aug. 29	4084	916	88	1587
Fence stay. Wire	H. B. Poffenberger	622,259	Apr. 4	101	23	87	23
Fence stay. Wire	R. R. Spoore	625,279	May 16	2414	547	87	1204
Fence stay-wires. Apparatus for applying wire	O. E. Simmons	623,187	Apr. 18	1845	423	87	387
Fence stay-wires. Device for attaching	J. R. Bardelmeier	620,826	Mar. 7	532	114	86	1606
Fence stay-wires. Device for attaching wire	W. J. Jacobs	627,191	June 20	1798	394	87	2001
Fence-stays. Frame for forming wire	C. E. Wintrode	638,613	Dec. 5	802	173	89	2020
Fence-stays. Tool for attaching	J. E. Boys	620,536	Feb. 28	3152	722	86	1477
Fence-strands. Tool for joining	D. Frankford	627,915	June 27	3165	693	87	2291
Fence support. Wire	R. P. Mayo	636,542	Nov. 7	549	121	89	1032
Fence tool. Wire	J. E. Boynton	638,550	Dec. 5	685	144	89	1997
Fence tool. Wire	J. W. Howland	624,653	May 9	1289	288	87	972
Fence twisting-tool	J. H. Pottenger	632,324	Sept. 5	214	50	88	1749
Fence-weaving machine. Wire	G. W. Whittington	629,637	July 25	3137	730, 731	88	666

Alphabetical list of inventions—Continued.

Invention.	Name	No.	Date.	Monthly volume. Spec.	Monthly volume. Dr'g.	Official Gazette. Vol.	Official Gazette. Page.
Fence. Wire	D. P. Anthony	620,090	Feb. 28	2375	538	86	1329
Fence. Wire	A. J. Bates	623,129	Apr. 18	1727	399	87	364
Fence. Wire	T. G. Bonta	631,272	Aug. 22	2877	650	88	1340
Fence. Wire	D. W. Bromley	630,175	Aug. 1	835	180	88	887
Fence. Wire	F. Canfield	629,322	July 18	2545	592	88	530
Fence. Wire	G. H. Chandlee. (Reissue)	11,758	July 11	1812	422	88	373
Fence. Wire	G. H. Chandlee	628,450	July 11	938	218	88	200
Fence. Wire	A. H. Cook	618,842	Feb. 7	43	9	86	812
Fence. Wire	J. M. Denning	617,084	Jan. 3	428	104	86	83
Fence. Wire	C. H. Doty	627,909	June 27	3154	690	87	2289
Fence. Wire	C. L. Etheridge	625,661	May 23	3085	701	87	1362
Fence. Wire	W. C. and L. C. Grant	619,403	Feb. 14	1122	254	86	1048
Fence. Wire	J. W. Jennings and J. O. Spradling	624,045	May 2	173	37	87	735
Fence. Wire	D. S. Knowlton	622,811	Apr. 11	1127	261	87	233
Fence. Wire	H. Martin	637,632	Nov. 21	3065	634	89	1610
Fence. Wire	J. A. McDaniel	617,596	Jan. 10	1397	317	86	291
Fence. Wire	G. C. Metcalf	618,891	Feb. 7	128	28	86	829
Fence. Wire	G. C. Metcalf	632,787	Sept. 12	1106	255	88	1942
Fence. Wire	L. S. Morgan	620,950	Mar. 14	771	169	86	1664
Fence. Wire	R. D. Morgan	625,936	May 30	3612	821	87	1481
Fence. Wire	E Owen	631,321	Aug. 22	2966	670	88	1358
Fence. Wire	F. R. Parker	632,585	Sept. 5	683	158	88	1842
Fence. Wire	E. F. Shellaberger	623,841	Apr. 25	3042	699	87	640
Fence. Wire	I. M. Warner	625,526	May 23	2850	649	87	1316
Fence-wire fastening	T. F. Feeny	621,491	Mar. 21	1763	393	86	1867
Fence-wire stretcher	A. D. Markillie	633,268	Sept. 19	2021	475	88	2131
Fence-wire tension device	J. C. Barnes	624,730	May 9	1425	320	87	1000
Fence-wires. Machine for attaching pickets to	J. B. Carpenter	639,521	Dec. 19	2455	567	89	2383
Fences. Device for making wire	W. McCloskey	630,465	Aug. 8	1431	320	88	1015
Fences. Implement for applying stay-wires to wire	J. W. Connelly	636,763	Nov. 14	1025	219	89	1156
Fences. Implement for applying stay-wires to wire	C. O. Downing	633,340	Sept. 19	2168	508	88	2160
Fences. Machine for weaving cross-wires in wire	H. Carter	627,800	June 27	2957	646	87	2248
Fencing, &c. Machine for spooling and taking up wire for	J. W. Sanderson	630,745	Aug. 8	1913	431	88	1108
Fencing-machine reeling mechanism	J. A. Jewell	628,809	July 11	1627	376	88	339
Fender: *See* Automatic fender. Car-fender. Car-truck fender. Cultivator-fender. Flag-fender. Hearth-fender. Plow or cultivator fender. Ship-fender. Vehicle-fender. Vessel-fender.							
Fermentation of materials which have been rendered aseptic.	J. Effront	620,022	Feb. 21	2252		86	1291
Fermented liquids. Pressure apparatus for stored	J. H. Ayasse	630,160	Aug. 1	809	174, 175	88	882
Ferrule. Screw-	J. A. Joans	616,929	Jan. 3	124	28	86	26
Fertilizer and making same	C. H. Thompson	619,633	Feb. 14	1528		86	1125
Fertilizer-distributer	E. J. Corser	627,983	July 4	46	9	88	11
Fertilizer-distributer	L. V. Labelle	628,100	July 4	273	65	88	54
Fertilizer-distributer	L. V. Labelle	633,244	Sept. 19	1976	463, 464	88	2123
Fertilizer-distributer	J. H. Saunders and M. F. Parham	618,237	Jan. 24	2646	585	86	565
Fertilizer-distributer	C. Schneider	620,977	Mar. 14	832	182	86	1675
Fertilizer-distributer	J. M. Seay	621,157	Mar. 14	1166	253, 254	86	1739
Fertilizer-distributer	I. L. Stell	636,079	Oct. 31	4001	915	89	848
Fertilizer-distributer	E. V. Williams	636,602	Nov. 7	652	143	89	1054
Fertilizer-distributer and cotton-seed planter. Combined	A. C. Young	625,631	May 23	3036	691	87	1353
Fertilizer-distributer and planter	M. M. Abrams	639,009	Dec. 12	1527	349	89	2184
Fertilizer-distributer and seed-planter	H. Heulings	623,783	Apr. 25	2925	668	87	618
Fertilizer-distributer and plow. Combined	A. E. and W. A. Waddell	621,184	Mar. 14	1211	265	86	1749
Fertilizer-distributer attachment for cultivators	W. A. Sears, Jr	626,726	June 13	931	211, 212	87	1813
Fertilizers. Apparatus for making	R. K. Giffen	638,919	Dec. 12	1356	310	89	2151
Fertilizers. Apparatus for making	A. Nitsch	619,335	Feb. 14	1005	227	86	1026
Fertilizers from garbage. Making	B. Terne	619,056	Feb. 7	494	104	86	906
Fertilizers. Making	W. L. Goldsmith	620,443	Feb. 28	2987		86	1445
Fertilizing compound	J. H. Brewer	639,805	Dec. 26	3001		89	2511
Fiber-cleaning machine. Vegetable	M. A. Torre	636,086	Oct. 31	4012	917	89	850
Fiber-lapping-machine attachment	W. T. Hurley	629,164	July 18	2269	526	88	478
Fiber. Refining vegetable	B. S. Summers	616,988	Jan. 3	236		86	47
Fibers. Apparatus for separating mixed	T. Lee	624,056	May 2	192	42, 43	87	740
Fibers. Composition of matter for use in extracting vegetable	W. Warburton	634,154	Oct. 3	317		89	66
Fibers. Gill-box machine for preparing	T. Burrows	633,793	Sept. 26	2988	693, 694	88	2334
Fibers. Machinery for decorticatiug vegetable	R. J. Eke	633,507	Sept. 19	2451	577, 578	88	2215
Fibrous materials. Apparatus for cleaning, combing, and assorting	W. S. Archer	622,031	Mar. 28	2784	628	86	2081
Fibrous materials. Preparing-machine for	J. Pilling	632,424	Sept. 5	382	87	88	1782
Fibrous or other material. Apparatus for compressing	G A. Lowry	630,374	Aug. 8	1225	269, 270	88	980
Fibrous plants. Machine for treating	J. G. Pratt	637,824	Nov. 28	3420	715	89	1701
Fibrous stock and making same	F. Hickman	629,077	July 18	2114		88	450
Fifth-wheel	T. H. C. Beall	626,215	June 6	3	1	87	1615
Fifth-wheel	W. H. Bradshaw	631,393	Aug. 22	3099	702	88	1384
Fifth-wheel	E. D. Eastman	618,649	Jan. 31	3408	760	86	726
Fifth-wheel	J. H. Gressom	633,000	Sept. 12	1481	344	88	2014
Fifth-wheel	M. J. Griffin and J. Pullar	629,500	July 25	2892	673	88	619
Fifth-wheel	W. Knapp	618,467	Jan. 31	3075	681	86	661
Fifth-wheel	R. G. Lohda	626,789	June 13	1052	236	87	1837
Fifth-wheel	L. G. Mayer	626,184	May 30	4156	946	87	1582

Alphabetical list of inventions—Continued.

Invention.	Name.	No.	Date.	Monthly volume.		Official Gazette.	
				Spec.	Dr'g.	Vol.	Page.
Fifth-wheel	E. B. Smith	622,981	Apr. 11	1432	330	87	293
Fifth-wheel	J. L. Taylor	635,407	Oct. 24	2689	616	89	579
Fifth-wheel	J. K. Thoma	631,189	Aug. 15	2713	614	88	1290
Fifth-wheel for electrical vehicles	T. L. Camp	623,651	Apr. 25	2674	614	87	569
Fifth-wheel. Vehicle	W. H. Bradshaw	631,394	Aug. 22	3100	702	88	1384
Fifth-wheel. Vehicle	H. C. Swan	623,342	Apr. 18	2121	486, 487	87	443
Fifth-wheel. Vehicle	H. P. Wells and O. Morrill	620,625	Mar. 7	140	28, 29	86	1529
Figure. Jointed	C. B. Morrow	634,503	Oct. 10	997	238	89	217
Filamentous substances. Machine for cleaning raw	J. D. Morel	638,849	Dec. 12	1230	277	89	2125
File	W. N. Brown	631,694	Aug. 22	3636	820	88	1492
File	H. W. Conard	630,487	Aug. 8	1465	327	88	1022
File	W. L. Smith	626,508	June 6	537	124	87	1718
File. Bill-	J. G. Aikin	620,211	Feb. 28	2597	590	86	1369
File. Bill-	E. J. Bein	631,772	Aug. 29	3809	848	88	1533
File. Bill-	E. J. Carter	626,141	May 30	4077	930	87	1566
File. Bill-	W. G. and J. W. Morgan	625,692	May 23	3130	711	87	1370
File. Binding-	A. Dom	635,431	Oct. 24	2741	627	89	589
File-box	J. D. Jordan	633,459	Sept. 19	2378	560	88	2200
File-box	J. V. Hemstreet	627,189	June 20	1795	394	87	2001
File-box	F. Macey	634,061	Oct. 3	130	33	89	30
File-box. Cashier's	J. T. Hicks	630,505	Aug. 8	1499	336	88	1028
File box or case	W. S. Grange	623,007	Apr. 11	1483	343	87	303
File. Card-	J. E. Blaine, Jr	633,354	Sept. 19	2194	515	88	2165
File. Card-	C. M. and W. J. Peck	633,364	Sept. 19	2212	519	88	2169
File. Card-	E. C. Smith	621,165	Mar. 14	1178	256	86	1742
File. Card-	R. L. Vilas	637,491	Nov. 21	2437	529	89	1447
File. Card-index	C. W. Scarritt	638,942	Dec. 12	1395	319	89	2158
File-case	L. Klemme, Jr	635,555	Oct. 24	2955	676	89	631
File-case for cards	F. Macey	619,323	Feb. 14	992	224	86	1024
File-case for cards	F. and F. Macey	633,601	Sept. 26	2661	621	88	2268
File-cutting machine	H. C. Bailey	625,235	May 16	2331	531	87	1190
File. Document-	A. C. Barler	618,821	Feb. 7	5	1, 2	86	803
File for holding loose papers	G. Edel	623,466	Apr. 18	2335	535	87	488
File for holding loose papers	G. Edel	623,467	Apr. 18	2336	536	87	488
File. Invoice-	E. Cross	635,237	Oct. 17	2322	542	89	492
File. Letter-	S. M. Brydges	622,940	Apr. 11	1364	313	87	278
File. Letter-	E. C. Magnus	630,375	Aug. 8	1230	270	88	981
File. Letter-	W. Shyvers	627,277	June 20	1953	430	87	2033
File. Letter-	W. C. Stahle and T. Mills	634,545	Oct. 10	1079	257	89	233
File, &c. Letter-	H. A. Skreberg	631,592	Aug. 22	3474	785	88	1460
File. Letter-	C. H. Wiley	625,374	May 23	2590	590	87	1265
File. Letter or bill	F. Korsmeier	638,726	Dec. 12	1035	232	89	2087
File. Memoranda-	W. L. Smith	623,046	Apr. 11	1545	357	87	315
File. Memorandum-	W. L. Smith	631,338	Aug. 22	2996	679	88	1364
File. Newspaper-	C. E. Bireley and G. A. Simms	628,430	July 4	893	209	88	877
File. Newspaper-	P. C. Newbaker	636,166	Oct. 31	4146	951	89	878
File. Newspaper-	S. C. Watts	630,145	Aug. 1	781	168	88	172
File or rasp cutting machine	H. C. Bailey	625,236	May 16	2333	532	87	1191
File. Paper-	E. Fowler	639,721	Dec. 26	2835	654	89	2477
File. Paper-	C. E. Mountford	635,502	Oct. 24	2862	653, 654	89	613
File. Paper-	G. H. Rogers	624,544	May 9	1110	250	87	937
Files by electrolysis. Apparatus for recutting	S. Wicks	637,313	Nov. 21	2108	455	89	1381
Files. Compound for resharpening	J. F. Revalk	633,489	Sept. 19	2424	-----	88	2209
Filing-case	E. G. Richards	637,033	Nov. 14	1551	334	89	1260
Filing hand-flange	A. Herman	624,485	May 9	988	220	87	914
Filing-rack	W. T. Campbell	622,911	Apr. 11	1312	302	87	268
Filling attachment for closed vessels. Non-overflow	C. L. Schalitz	621,149	Mar. 14	1155	251	86	1737
Filling-block	J. D. Baker	625,919	May 30	3586	814	87	1476
Filling device. Receptacle-	A. P. Silverthorn	633,913	Sept. 26	3193	743	88	2376
Films. Apparatus for developing roll-	C. W. H. Smithers and A. A. Kelly	634,631	Oct. 10	1220	290	89	259
Films or webs intermittingly. Mechanism for moving	A. and L. Chronik	627,952	June 27	3228	707, 708	87	2304
Filter	G. A. Abbott	625,131	May 16	2161	490	87	1157
Filter	F. Agge and W. B. Nye	617,870	Jan. 17	1937	434, 435	86	417
Filter	F. Agge and W. B. Nye	617,871	Jan. 17	1941	435	86	418
Filter	E. Benjamin and G. P. Jackson	638,167	Nov. 28	4085	862	89	1831
Filter	W. W. Bolls	621,317	Mar. 21	1464	324	86	1811
Filter	F. Bommarius	632,091	Aug. 29	4372	983	88	1643
Filter	C. L. Charvat	621,899	Mar. 28	2538	573	86	2034
Filter	H. W. H. Claassen	635,745	Oct. 31	3815	765	89	714
Filter	W. M. Clarke	636,489	Nov. 7	445	98	89	1011
Filter	E. R. Cook and S. L. Cohoon	626,487	June 6	495	115	87	1709
Filter	M. Cusick	626,977	June 13	1422	314	87	1909
Filter	W. M. Deutsch	628,884	July 11	1751	409	88	361
Filter	D. A. M. Doublet	631,929	Aug. 29	4068	913	88	1584
Filter	J. Ellis	638,663	Dec. 5	886	194	89	2038
Filter	J. W. Fleetwood	622,614	Apr. 4	767	178	87	146
Filter	W. W. Gage and B. T. Searing	623,955	Apr. 25	3250	748	87	680
Filter	H. R. Gaylord	633,311	Sept. 19	2116	496	88	2150
Filter	C. T. Giles	628,088	July 4	240	54	88	48
Filter	S. Gudeman	627,729	June 27	2830	620	87	2222
Filter	R. Haire	631,301	Aug. 22	2927	664	88	1349
Filter	J. R. Haselden	620,316	Feb. 28	2781	636	86	1406
Filter	J. J. Hewel	619,569	Feb. 14	1402	322	86	1102
Filter	C. L. Holland	632,870	Sept. 12	1251	286	88	1971
Filter	T. Howard	632,570	Sept. 5	664	154	88	1838
Filter	G. F. Key	635,934	Oct. 31	3680	849	89	785
Filter	A. H. Kohlmeyer and W. F. Stewart	635,966	Oct. 31	3735	863	89	795
Filter	A. E. Krause	630,363	Aug. 8	1196	263	88	975
Filter	N. Lanser	634,691	Oct. 10	1329	314	89	281

Alphabetical list of inventions—Continued.

Invention.	Name.	No.	Date.	Monthly volume.		Official Gazette.	
				Spec.	Dr'g.	Vol.	Page.
Filter	J. W. Ledoux	637,394	Nov. 21	2266	488	89	1413
Filter	E. A. Leland	634,060	Oct. 3	129	33	89	30
Filter	M. Levi	623,324	Apr. 18	2089	479	87	437
Filter	T. Linke	622,052	Mar. 28	2816	635	86	2087
Filter	J. A. Maignen	627,079	June 13	1597	349	87	1942
Filter	J. A. Maignen	628,987	July 18	1945	452	88	416
Filter	J. A. Maignen	630,085	Aug. 1	681	147	88	858
Filter	J. A. Maignen	630,249	Aug. 1	959	210	88	912
Filter	J. A. Maignen	632,466	Sept. 5	465	105, 106	88	1799
Filter	R. H. Martin	634,897	Oct. 17	1692	400	89	369
Filter	W. B. Nye	617,861	Jan. 17	1916	429	86	413
Filter	H. A. Pooler	626,244	June 6	48	11	87	1624
Filter	Z. F. Potter	619,838	Feb. 21	1924	438, 439	86	1229
Filter	Z. F. Potter	619,839	Feb. 21	1929	439, 440	86	1230
Filter	G. Raab and L. S. Grossman	639,769	Dec. 26	2931	675	89	2496
Filter	H. Reisert	630,988	Aug. 15	2358	537	88	1220
Filter	J. H. Riddick, Jr	633,368	Sept. 19	2217	521	88	2169
Filter	W. E. Saunders	627,594	June 27	2589	571	87	2174
Filter	J. Schneible	633,161	Sept. 19	1816	427	88	2091
Filter	O. J. Scott and W. W. Holmes	630,569	Aug. 8	1619	362	88	1052
Filter	E. L. Stream	622,561	Apr. 4	681	158	87	129
Filter	J. F. Theurer	618,964	Feb. 7	302	65, 66	86	863
Filter	J. F. Theurer	618,965	Feb. 7	305	66	86	870
Filter	J. F. Theurer	624,576	May 9	1164	261, 262	87	948
Filter	H. A. Veazie	620,621	Mar. 7	132	26	86	1527
Filter	J. Weidmann	625,001	May 16	1921	431	87	1114
Filter	W. Weir	637,686	Nov. 21	3172	658	89	1631
Filter	J. F. Ziegler	620,208	Feb. 28	2593	589	86	1368
Filter	O. and O. B. Zwietusch	627,675	June 27	2733	599	87	2208
Filter. Ambulant	W. A. Freise	623,894	Apr. 25	3140	723	87	659
Filter and cleaner	W. B. Benham	627,071	June 13	1586	347	87	1939
Filter and cleaner	W. B. Lindsay and W. E. Tonner	622,698	Apr. 11	940	217	87	198
Filter and refrigerator. Combined	H. Giessel	618,171	Jan. 24	2533	560	86	544
Filter apparatus	L. J. and A. L. Barthelemy	618,322	Jan. 24	2789	618, 619	86	592
Filter apparatus	C. H. Loew	634,947	Oct. 17	1771	420	89	384
Filter attachment for centrifugal machines	U. Laplace	630,365	Aug. 8	1202	264	88	976
Filter-bed	L. K. Davis	624,893	May 9	1733	391	87	1060
Filter-bed-washing apparatus	J. W. Hyatt	625,508	May 23	2823	643	87	1310
Filter-beds. Apparatus for discharging sewage, &c., upon	G. E. Ridgway	625,605	May 23	2984	678, 679, 680	87	1342
Filter-beds. Means for washing granular	J. W. Hyatt	625,556	May 23	2908	661	87	1327
Filter. Double	L. Wanner, Jr	629,942	Aug. 1	392	84, 85, 86	88	800
Filter. Faucet	D. N. B. Coffin	621,766	Mar. 21	2278	513	86	1968
Filter. Faucet	G. W. Van Alstine	639,471	Dec. 19	2380	548	89	2368
Filter. Faucet	W. H. Vance	617,133	Jan. 3	528	126	86	108
Filter for attachment to water-taps	J. H. Niemann	621,937	Mar. 28	2605	587	86	2045
Filter for conductor-pipes	A. Martin	617,032	Jan. 3	328	78	86	64
Filter for water, &c	T. W. Hill	621,768	Mar. 21	2283	514	86	1969
Filter. Granular-bed	J. A. Maignen	630,063	Aug. 1	647	140	88	851
Filter. Gravity water	D. J. Bliss	630,846	Aug. 15	2095	474	88	1169
Filter, heater, and cooler. Water	E. S. Clower	630,327	Aug. 8	1121	245	88	958
Filter. Oil	W. D. Legg	617,343	Jan. 10	931	215	86	201
Filter. Oil	S. Schönfeld	639,445	Dec. 19	2331	538	89	2357
Filter or strainer	A. Bergström	622,439	Apr. 4	430	100	87	80
Filter. Pack-saddle	W. A. Freise	623,777	Apr. 25	2916	667	87	616
Filter. Portable	R. O. Stebbins	636,300	Nov. 7	128	28	89	948
Filter-press	G. Ackermann	638,949	Dec. 12	1410	322	89	2162
Filter-press	J. H. Hinken. (Reissue)	11,772	Sept. 19	2541	596	88	2231
Filter. Pressure	W. W. Paddock	636,447	Nov. 7	363	82	89	994
Filter-press	J. Williamson	628,057	July 4	174	37, 38, 39, 40	88	36
Filter-press	J. Wilson	629,642	July 25	3146	733	88	668
Filter-press and cloth therefor	J. C. Montgomerie	620,716	Mar. 7	329	67, 68	86	1565
Filter-press closing device	L. Hirt	633,759	Sept. 26	2936	682	88	2323
Filter. Pressure	G. Eberhard	626,991	June 13	1450	318, 319	87	1914
Filter. Rain-water	W. M. Ricketts	631,128	Aug. 15	2615	591	88	1270
Filter. Self-cleansing	R. H. Post	635,975	Oct. 31	3761	868	89	800
Filter. Siphon	J. G. Sutton	622,562	Apr. 4	682	159	87	130
Filter. Slime	C. H. Pead	624,533	May 9	1086	244, 245	87	933
Filter-strainer	J. W. Hyatt	618,881	Feb. 7	116	24, 25	86	827
Filter-strainer	J. W. Hyatt	619,755	Feb. 21	1761	403, 404	86	1196
Filter. Suction-pipe foot-valve	J. W. Newman	625,794	May 30	3341	759	87	1430
Filter. Universal	K. Abraham	631,143	Aug. 15	2635	596, 597	88	1274
Filter. Water	E. Armstrong and J. J. Mulconroy	634,714	Oct. 10	1374	323	89	291
Filter. Water	R. Barrie	629,310	July 18	2521	587	88	525
Filter. Water	D. J. Bliss and E. J. Richmond	628,517	July 11	1071	250	88	226
Filter. Water	F. Bommarius	639,140	Dec. 12	1737	401	89	2225
Filter. Water	S. M. Boyer	621,786	Mar. 28	2320	521	86	1991
Filter. Water	C. B. and R. R. Darling and W. T. Mann.	632,339	Sept. 5	237	56	88	1754
Filter. Water	E. T. Dreier	637,095	Nov. 14	1663	360	89	1280

Alphabetical list of inventions—Continued.

Invention.	Name.	No.	Date.	Monthly volume. Spec.	Monthly volume. Dr'g.	Official Gazette. Vol.	Official Gazette. Page.
Filter. Water-	J. Ellis	619,944	Feb. 21	2115	479	86	1264
Filter. Water-	A. Kenney	634,113	Oct. 3	243	61	89	52
Filter. Water-	E. E. Murphy	638,742	Dec. 12	1055	236	89	2091
Filter. Water-	O. E. Nickey	617,177	Jan. 3	604	142	86	118
Filter. Water-	W. H. Randall	636,356	Nov. 7	216	47	89	964
Filter. Water-	C. Salzberger	635,190	Oct. 17	2239	522	89	477
Filter. Water-	S. M. Suman	623,439	Apr. 18	2289	524	87	478
Filter. Water-	W. G. Tousey	624,580	May 9	1169	263	87	949
Filter. Water-	W. G. Tousey	634,512	Oct. 10	1018	243	89	221
Filters. Automatic regulating-weir for	W. B. Nye	617,860	Jan. 17	1914	429	86	412
Filters. Means for automatically cleaning	O. Hoffmann	632,461	Sept. 5	459	103, 104	88	1798
Filters. Mud-catcher for	L. Wanner, Jr	629,941	Aug. 1	390	84	88	799
Filters. Supply-regulator for water-	A. V. Fausek	624,777	May 9	1512	344	87	1017
Filtering apparatus	V. C. Driesbach	630,870	Aug. 15	2134	484	88	1177
Filtering apparatus	R. Helwig	620,451	Feb. 28	2998	686	86	447
Filtering apparatus	C. V. F. Ludwig	625,177	May 16	2230	506	87	1170
Filtering apparatus	W. Reeves	617,771	Jan. 17	1729	388, 389	86	375
Filtering beer, &c. Apparatus for	C. Haefner	628,534	July 11	1103	257	88	232
Filtering cider or spirits. Apparatus for	O. N. Felts	621,803	Mar. 28	2356	528	86	1998
Filtering device	L. K. Davis	636,323	Nov. 7	162	35,36	89	953
Filtering device	C. O. Grube	628,935	July 18	1858	430	88	398
Filtering device	P. E. Malmstrom	635,864	Oct. 31	3547	816	89	759
Filtering device	J. Wilson	630,959	Aug. 15	2300	523	88	1208
Filtering device. Portable	A. Marks	634,470	Oct. 10	943	224	89	206
Filtering-intake	J. W. Hammett	623,782	Apr. 25	2922	668	87	618
Filtering machine. Liquid-	M. B. Koerper and E. C. Talley	620,786	Mar. 7	464	96	86	1592
Filtering oil	T. Gaunt	623,536	Apr. 25	2469	------	87	532
Filtering organ	J. A. Maignen	629,319	July 18	2537	590, 591	88	528
Filtering-tunnel	W. S. Keene	639,583	Dec. 19	2573	590	89	2407
Finger-manipulator	M. Lyons	639,073	Dec. 12	1611	371	89	2200
Finger-ring	G. M. Saunders	635,510	Oct. 24	2876	656	89	616
Finger shield or protector	O. E. Fowble	617,929	Jan. 17	2050	459	86	440
Finings. Machine for preparing	W. J. Gindele	635,925	Oct. 31	3668	846	89	782
Fire-alarm	G. W. Fallin	617,326	Jan. 10	895	208	86	193
Fire-alarm	H. E. Greene and J. W. Haley	623,009	Apr. 11	1486	344	87	303
Fire-alarm	F. D. Wallace	618,526	Jan. 31	3190	705	86	683
Fire-alarm apparatus. Automatic code telegraph	R. Pearson	632,586	Sept. 5	684	159	88	1842
Fire-alarm. Automatic	C. E. Lombard	623,024	Apr. 11	1515	351	87	309
Fire-alarm box	J. W. Johnson	621,093	Mar. 14	1050	229	86	1716
Fire-alarm-box door	W. A. Froeckman	621,403	Mar. 21	1595	353, 354	86	1836
Fire-alarm boxes. Means for preventing tampering with	F. Ely	637,377	Nov. 21	2236	481	89	1408
Fire-alarm instrument	R. G. Callum	626,318	June 6	186	45	87	1648
Fire-alarm signal-circuit	W. R. Hewitt	636,139	Oct. 31	4103	939	89	869
Fire-alarm system. Automatic	R. G. Callum and J. W. Fritch	626,364	June 6	289	66	87	1670
Fire-alarm system. Automatic	G. C. Hale	630,345	Aug. 8	1168	256, 257	88	969
Fire and burglar alarm. Automatic	S. H. Burkhart and A. Kunkel	625,378	May 23	2599	592	87	1267
Fire and burglar alarm. Automatic	H. E. Thompson	623,441	Apr. 18	2295	525	87	479
Fire and street service hydrant	P. Eley	617,086	Jan. 3	430	104	86	83
Firearm	J. G. Aeschbacher	640,070	Dec. 26	3474	797	89	2606
Firearm	B. Behr	630,478	Aug. 8	1453	325	88	1020
Firearm	H. E. Brown	624,620	May 9	1236	277	87	962
Firearm	W. H. Davenport	624,187	May 2	445	92	87	785
Firearm	B. Hemming	618,033	Jan. 17	2229	497	86	473
Firearm	H. H. Passage	638,751	Dec. 12	2073	240	89	2096
Firearm	A. Rosa y Pascual	621,369	Mar. 21	1549	343	86	1827
Firearm	A. W. Savage	634,034	Oct. 3	90	24	89	22
Firearm	J. Stapf	626,310	June 6	165	40	87	1645
Firearm	G. Testa	628,130	July 4	325	78	88	65
Firearm	W. J. Turnbull	630,758	Aug. 8	1931	436	88	1112
Firearm	A. C. Wright	625,009	May 16	1934	434	87	1116
Firearm. Automatic	F. K. Young	624,145	May 2	369	76, 77, 78	87	770
Firearm. Breakdown	L. H. Cobb	629,770	Aug. 1	17	5	88	724
Firearm breech-bolt	A. V. P. M. Berthier	623,459	Apr. 18	2323	532	87	485
Firearm. Breech-loading	W. V. Bléha	633,949	Sept. 26	3246	757, 758	88	2386
Firearm. Breech-loading	W. L. Stockwell	637,043	Nov. 14	1564	337	89	1263
Firearm. Breech-loading	N. G. Whitmore	629,142	July 18	2234	518	88	472
Firearm cartridge-ejector	A. E. Grimes	619,565	Feb. 14	1396	321	86	1101
Firearm ejector. Breakdown-	C. A. Fischer	636,650	Nov. 7	757	165	89	1074
Firearm front sights. Guard for	W. Mason	625,581	May 23	2948	670	87	1335
Firearm. Gas-operated	J. M. Browning	621,747	Mar. 21	2241	506	86	1961
Firearm. Gas-operated	A. Travaglini	630,136	Aug. 1	764	165	88	874
Firearm-lock	G. W. Chandler	631,951	Aug. 29	4107	922	88	1591
Firearm-lock	A. Fyrberg	624,321	May 2	698	154	87	834
Firearm-lock	J. Rupertus	633,734	Sept. 26	2894	673	88	2315
Firearm. Magazine-	J. M. Browning	619,132	Feb. 7	637	137, 138	86	936
Firearm. Magazine-	G. W. Chandler	632,235	Sept. 5	12	3	88	1711
Firearm. Magazine-	W. W. Wood	620,524	Feb. 28	3110	711, 712	86	1469
Firearm. Recoil-operated	P. Mauser	639,421	Dec. 19	2284	528, 529	89	2348
Firearm. Recoil-operated	G. Roth and K. Krnka	634,913	Oct. 17	1714	405, 406	89	374
Firearm safety device	G. Luger	639,414	Dec. 19	2274	525, 526	89	2346
Firearm safety device. Revolving-	J. H. Wesson and J. L. Hobbs	635,705	Oct. 24	3219	741	89	684
Firearm shell-ejector	A. Fyrberg	624,322	May 2	699	154	87	834

Alphabetical list of inventions—Continued.

Invention.	Name.	No.	Date.	Monthly volume.		Official Gazette.	
				Spec.	Dr'g.	Vol.	Page.
Firearm-sight	G. Durrenberger	629,670	July 25	3189	743	88	676
Firearm-sight	G. Durrenberger	629,671	July 25	3192	744	88	676
Firearm. Single-trigger	A. E. Lard	636,050	Oct. 31	3901	896	89	829
Firearm-stock	A. Hanson	626,905	June 13	1307	287	87	1885
Firearm-stock. Adjustable	O. O. Scripture	628,360	July 4	773	180	88	149
Firearms. Extractor-detent for	E. A. Weisheit	617,943	Jan. 17	2069	464	86	444
Firearms. Single trigger for double-barrel	P. C. Koll	621,102	Mar. 14	1065	232	86	1720
Firearms. Trigger mechanism for	A. E. Lard	630,061	Aug. 1	637	139	88	849
Fire-bars	E. J. Poillon	621,373	Mar. 21	1555	345	86	1828
Fire-bridge. Hot-air	O. Thost	631,479	Aug. 22	3250	737	88	1414
Fire building and kindling device	J. F. Brewster and R. M. Gill	625,243	May 16	2343	534 535	87	1192
Fire-cracker	J. R. Hinton	619,177	Feb. 7	726	157	86	953
Fire-cracker	L. Nordlinger	634,180	Oct. 3	362	93	89	74
Fire-cracker bodies, &c. Choking-machine for	G. Lispenard	634,176	Oct. 3	355	91	89	73
Fire-cracker-body tubes. Machine for making	C. L. Curtis and G. Lispenard	634,202	Oct. 3	406	103 104	89	84
Fire-cracker choke	C. L. Curtis	634,203	Oct. 3	411	104 105	89	85
Fire-cracker choke	G. Lispenard	634,177	Oct. 3	358	92	89	74
Fire-cracker-choking machine	C. L. Curtis	634,201	Oct. 3	399	102 103	89	82
Fire-damp detector	G. A. Lyncker	617,111	Jan. 3	483	116	86	95
Fire-engine. Electric	W. H. H. Whiting	632,665	Sept. 5	842	197	88	1875
Fire-engine use. Harness-support for	C. C. Rogers	617,188	Jan. 3	623	146	86	122
Fire-engines. Feed-water heater for steam	T. M. Robinson	627,880	June 27	3098	678	87	2274
Fire-escape	W. O. Abbott	636,480	Nov. 7	429	95	89	1008
Fire-escape	W. T. Addison and G. Wright	638,950	Dec. 12	1411	322	89	2162
Fire-escape	W. Benbow	627,173	June 20	1770	387 388	87	1996
Fire-escape	L. A. Boehme	632,692	Sept. 12	925	216	88	1904
Fire-escape	C. L. Buddenbohn and W. Speer	624,432	May 2	888	201	87	872
Fire-escape	S. G. Burleigh and M. T. Bigelow	631,763	Aug. 22	3789	844	88	1515
Fire-escape	A. V. Callahan	624,293	May 2	638	140	87	821
Fire-escape	J. P. Caulfield	633,357	Sept. 19	2199	516	88	2166
Fire-escape	E. M. Christ	635,235	Oct. 17	2320	542	89	491
Fire-escape	J. H. Clinton	632,893	Sept. 12	1315	301	88	1980
Fire-escape	T. D. Connelly	637,709	Nov. 21	3208	667	89	1639
Fire-escape	P. Coombe	625,147	May 16	2180	495	87	1161
Fire-escape	J. Cotter	640,099	Dec. 26	3522	808	89	2615
Fire-escape	J. I. Cranford	629,548	July 25	2974	694	88	635
Fire-escape	J. Delgado y Aguilár	629,228	July 18	2370	550	88	497
Fire-escape	M. H. Dooly	639,364	Dec. 19	2186	506	89	2330
Fire-escape	L. N. Duquette	636,771	Nov. 14	1044	223 224	89	1160
Fire-escape	G. Fabe	620,902	Mar. 14	676	147 148	86	1647
Fire-escape	E. P. Feiker	632,993	Sept. 12	1472	343	88	2012
Fire-escape	F. J. Glaser	635,539	Oct. 24	2925	668	89	626
Fire-escape	C. R. Harris	617,739	Jan. 17	1667	375 376	86	364
Fire-escape	C. R. Harris	617,740	Jan. 17	1669	376	86	365
Fire-escape	D. N. Jerauld	637,615	Nov. 21	3035	625	89	1603
Fire-escape	E. J. Johnson	637,339	Nov. 21	2168	467	89	1394
Fire-escape	H. C. Karpenstein	638,465	Dec. 5	541	111	89	1971
Fire-escape	F. W. Klinck	636,264	Nov. 7	69	16, 17	89	937
Fire-escape	J. Laming	630,902	Aug. 15	2193	499	88	1188
Fire-escape	F. M. Lepore	637,878	Nov. 28	3533	740	89	1724
Fire-escape	E. Lindeberg	637,626	Nov. 21	3057	632	89	1609
Fire-escape	W. H. Logan	623,796	Apr. 25	2951	674	87	623
Fire-escape	W. H. Logan	636,538	Nov. 7	545	120	89	1031
Fire-escape	W. H. Logan	636,539	Nov. 7	545	120	89	1031
Fire-escape	C. Mace	639,902	Dec. 26	3164	728	89	2541
Fire-escape	H. J. Maier	628,824	July 11	1650	381	88	343
Fire-escape	G. S. McGee	627,347	June 20	2092	462	87	2061
Fire-escape	M. K. McGowan	631,174	Aug. 15	2692	609	88	1285
Fire-escape	J. Mignot	639,751	Dec. 26	2894	667	89	2489
Fire-escape	J. O. Miller	622,059	Mar. 28	2826	637	86	2089
Fire-escape	F. Minster	632,820	Sept. 12	1172	268	88	1955
Fire-escape	C. W. Needham	637,475	Nov. 21	2406	522	89	1441
Fire-escape	T. J. Nichols and H. N. Tennille	636,689	Nov. 7	829	184	89	1090
Fire-escape	C. Peel	629,205	July 18	2338	542	88	491
Fire-escape	D. B. Rees	631,968	Aug. 29	4140	931	88	1598
Fire-escape	W. Rees	631,382	Aug. 22	3076	696	88	1380
Fire-escape	E. Robiole	622,079	Mar. 28	2856	644	86	2096
Fire-escape	J. Y. Shallenberger	630,993	Aug. 15	2363	538	88	1221
Fire-escape	J. Spalding	639,455	Dec. 19	2349	542	89	2361
Fire-escape	M. Standish	637,532	Nov. 21	2511	545	89	1462
Fire-escape	E. B. Terdoest	635,524	Oct. 24	2902	662	89	621
Fire-escape	O. A. Treadway	638,080	Nov. 28	3891	819	89	1794
Fire-escape	T. C. H. Vance	630,576	Aug. 8	1633	365	88	1055
Fire-escape	R. Watson and C. E. Stevenson	619,105	Feb. 7	580	124 125	86	924
Fire-escape	H. D. T. Wilson	636,605	Nov. 7	663	146	89	1056
Fire-escape	E. Winston	639,480	Dec. 19	2395	551	89	2371
Fire-escape	J. E. Young	628,736	July 11	1490	345	88	311
Fire-escape and alarm. Combined	V. and E. V. Schirmer	638,600	Dec. 5	775	168 169	89	2014
Fire-escape and scaffold-holder	C. E. Ely	635,038	Oct. 17	1939	460	89	418
Fire-escape and truck-ladder	J. F. Mack	628,629	July 11	1289	301 302	88	270
Fire-escape device	G. Kirschenhofer	626,812	June 13	1091	245	87	1843
Fire-escape. Elevated-drawbridge	A. Riecke	619,439	Feb. 14	1195	270 271	86	1061
Fire-escape. Portable	W. Menges	632,226	Aug. 29	4627	1043	88	1693
Fire-escape truck	H. A. Eades and W. C. Parsons	636,122	Oct. 31	4076	932	89	863

Alphabetical list of inventions—Continued.

Invention.	Name.	No.	Date.	Monthly volume. Spec.	Monthly volume. Dr'g.	Official Gazette. Vol.	Official Gazette. Page.
Fire-extinguisher	S. W. Cary and E. Saarbach	626,855	June 13	1185	263	87	1861
Fire-extinguisher	W. E. Forster	626,683	June 13	848	193	87	1798
Fire-extinguisher	W. Frank and F. St. Gemmes	624,781	May 9	1517	345	87	1018
Fire-extinguisher	T. F. Handly	631,570	Aug. 22	3436	776	88	1451
Fire-extinguisher	W. H. Robinson	619,619	Feb. 14	1489	340	86	1118
Fire-extinguisher	G. G. Schroeder	635,399	Oct. 24	2645	611	89	571
Fire-extinguisher	A. B. Shaw	621,622	Mar. 21	1992	444	86	1912
Fire-extinguisher apparatus	C. E. Lombard	618,989	Feb. 7	379	79	86	884
Fire-extinguisher. Automatic	W. H. Banks	624,611	May 9	1221	275	87	959
Fire-extinguisher. Automatic	J. Butcher	637,232	Nov. 21	1956	417	89	1351
Fire-extinguisher. Automatic	J. L. Butler	620,883	Mar. 14	644	141	86	1641
Fire-extinguisher. Automatic	O. Hoffmann	634,457	Oct. 10	920	220	89	201
Fire-extinguisher. Automatic	A. Iler	621,495	Mar. 21	1772	395	86	1869
Fire-extinguisher. Chemical	W. H. Douglas	626,988	June 13	1445	318	87	1913
Fire-extinguisher. Chemical	W. M. Spera	619,096	Feb. 7	565	120	86	921
Fire-extinguisher. Chemical	A. H. Van Riper and P. F. Guthrie	623,851	Apr. 25	3065	705	87	645
Fire-extinguisher. Chemical	A. H. Van Riper and P. F. Guthrie	625,618	May 23	3017	687	87	1349
Fire-extinguisher. Portable	R. D. Wirt	628,058	July 4	179	40	88	36
Fire-extinguisher system. Automatic	C. G. Smith	617,365	Jan. 10	965	222	86	207
Fire-extinguishers. Automatic sprinkler for	C. B. Shaw. (Reissue)	11,744	May 30	4212	957	87	1592
Fire-extinguishers. Automatic sprinkler-head for	C. D. Cox and F. Gray	635,749	Oct. 31	3322	767	89	715
Fire-extinguishers. Strut for automatic	J. L. Butler	627,222	June 20	1854	406	87	2012
Fire-extinguishing apparatus	H. F. Dunham	632,702	Sept. 12	943	219	88	1907
Fire-extinguishing compound	C. P. Doutney	625,293	May 16	2443	------	87	1210
Fire-extinguishing compound	G. Edwards	623,657	Apr. 25	2682	------	87	570
Fire-extinguishing compound	G. Edwards	639,674	Dec. 19	2745	------	89	2441
Fire-extinguishing hand-pump	P. H. Holm	637,259	Nov. 21	2000	428	89	1360
Fire-extinguishing purposes. Hand-grenade for	A. Webster	638,781	Dec. 12	1115	249	89	2104
Fire-extinguishing system	E. Crocheron	638,911	Dec. 12	1346	307	89	2149
Fire-extinguishing system. Automatic chemical	H. Bush	633,970	Sept. 26	3294	768	88	2395
Fire-extinguishing systems. Automatic valve for	A. G. Anderson and F. Mohn	625,376	May 23	2593	590 / 591	87	1266
Fire-front. Detachable	M. L. Scanlan	624,984	May 16	1899	426	87	1110
Fire-hose nozzle	B. C. Crane	626,596	June 6	677	156	87	1746
Fire-hose reel	J. S. Patterson	622,067	Mar. 28	2835	639	86	2091
Fire-hose support	H. K. Martin	618,250	Jan. 24	2663	590	86	568
Fire-hose support	C. R. Robinson	630,563	Aug. 8	1608	360	88	1050
Fire-hose supporting-hook	F. D. Matheas	622,246	Apr. 4	79	19	87	19
Fire hydrant or turret. Rotary	E. F. Steck	623,341	Apr. 18	2119	486	87	443
Fire-kindler	L. and A. W. Brandt	622,200	Apr. 4	8	------	87	4
Fire-kindler	J. F. Murphy	628,833	July 11	1666	388	88	346
Fire-kindler	A. Sendlein	620,186	Feb. 28	2554	579	86	1361
Fire-kindlers, &c. Machine for manufacturing	C. Hoff and G. H. Klotter	636,530	Nov. 7	532	117	89	1029
Fire-lighter	R. Pflaum	617,424	Jan. 10	1093	249	86	232
Fire-lighter	H. Recker	619,261	Feb. 7	874	192	86	983
Fire-log. Fluid-burner	G. W. White	639,122	Dec. 12	1711	394	89	2220
Fireman's apparatus for saving life	W. E. Harris	636,984	Nov. 14	1453	313 / 314	89	1241
Fireman's helmet	E. D. Gallagher and T. A. Haynes	622,677	Apr. 11	904	207	87	191
Fire. Means for preventing spread of	R. Buggé	623,305	Apr. 18	2054	471 / 472	87	430
Fire-nozzle	C. W. Gould	627,728	June 27	2829	620	87	2222
Fire-pail	W. S. Lackey	624,505	May 9	1029	232	87	920
Fireplace	C. B. Nay	628,837	July 11	1670	389	88	346
Fireplace draft-regulator. Open-	H. Pannill	625,983	May 30	3705	841	87	1499
Fire port-hole for buildings	J. J. Schlosser	635,601	Oct. 24	3034	697	89	645
Fireproof and insulating material	A. Imschenetzky	629,567	July 25	3003	------	88	640
Fireproof awning and curtain	J. A. Sprinkel	623,385	Apr. 18	2198	504	87	459
Fireproof building	J. A. McKim	619,430	Feb. 14	1181	267	86	1059
Fireproof-building construction	J. John	621,680	Mar. 21	2114	471	86	1937
Fireproof-building construction	E. V. Johnson	625,930	May 30	3605	819	87	1480
Fireproof ceiling	L. W. G. Lilienthal	619,769	Feb. 21	1791	410	86	1202
Fireproof chimney	F. H. Urban	631,139	Aug. 15	2630	595	88	1273
Fireproof construction	G. Fugman	632,523	Sept. 5	575	133	88	1821
Fireproof curtain	W. R. Kinnear	621,421	Mar. 21	1627	361	86	1842
Fireproof door for theaters	F. S. Steward	616,987	Jan. 3	233	54	86	46
Fireproof floor	L. Woelfle and A. Schoeller	620,818	Mar. 7	519	111	86	1603
Fireproof floor and ceiling	M. J. O'Meara and L. L. Calvert	626,560	June 6	618	142	87	1734
Fireproof floor and ceiling construction	A. De Man	625,544	May 23	2886	656	87	1323
Fireproof floor and ceiling slab	G. Fugman	634,262	Oct. 3	552	137	89	110
Fireproof floor, ceiling, &c	E. Homan	640,134	Dec. 26	3584	825	89	2629
Fireproof-floor construction	A. L. Johnson	633,285	Sept. 19	2048	481	88	2136
Fireproof-floor construction	F. Selby	636,569	Nov. 7	603	132 / 133	89	1044
Fireproof-floor construction	F. W. Settan	620,187	Feb. 28	2555	579	86	1361
Fireproof floor for buildings, &c	A. H. Crawford	621,446	Mar. 21	1673	371	86	1850
Fireproof material	C. L. H. de Hundertmark	623,247	Apr. 18	1942	------	87	407
Fireproof partition	O. W. Norcross	628,252	July 4	555	133	88	109
Fireproof partition-wall	V. Venezia	637,906	Nov. 28	3583	750	89	1735
Fireproof sectional chimney or stack	C. S. Doremus	619,251	Feb. 7	857	188	86	980
Fireproof structure	W. S. Hull	632,528	Sept. 5	590	135	88	1825
Fireproof structure	J. Ray	629,468	July 25	2816	654	88	605
Fireproof structure	G. Sprickerhoff	623,438	Apr. 18	2288	523	87	478
Fireproof structure and material therefor	J. M. Stimpson	623,492	Apr. 18	2379	547	87	496
Fireproof-wall studding	A. P. Whittemore	626,583	June 6	655	152	87	1742
Fireproof window	M. H. Crittenden	633,120	Sept. 19	1734	407	88	2074
Fireproof window	J. W. Sheppard	621,542	Mar. 21	1864	413	86	1886
Fireproof window	F. Voigtmann and S. H. Pomeroy	637,907	Nov. 28	3584	750	89	1735
Fireproofing and insulating compound and producing same.	E. Rueff	630,115	Aug. 1	728	------	88	868
Fireproofing composition	G. X. Dime	627,988	July 4	55	------	88	12
Fireproofing material	A. Lantzke	624,828	May 9	1622	368	87	1039
Fireproofing wood	F. L. Konrad	629,861	Aug. 1	197	45	88	759
Fireproofing wood, &c. Method of and apparatus for	J. L. Ferrell	620,114	Feb. 28	2421	547 / 548	86	1337
Fire-protective shutter	W. H. Boles and E. Laass	622,754	Apr. 11	1026	239	87	215

Alphabetical list of inventions—Continued.

Invention.	Name.	No.	Date.	Monthly volume. Spec.	Monthly volume. Dr'g.	Official Gazette. Vol.	Official Gazette. Page.
Fire-pumps. Apparatus for automatically insuring periodic operation of stationary	J. H. Clark and W. E. Quimby	630,860	Aug. 15	2117	480 481	88	1173
Fire-refuge	J. P. Lowell	639,591	Dec. 19	2584	593	89	2409
Fire-resisting construction. Interior	A. T. Stearns	634,739	Oct. 10	1419	335	89	299
Fire-resisting window	G. Hayes	626,698	June 13	879	200	87	1804
Fire-sprinkler. Automatic	L. A. Weston	619,242	Feb. 7	839	184	86	977
Fire-sprinkler. Automatic	L. A. Weston	637,687	Nov. 21	3175	658	89	1632
Fires. Portable attachable curtain for	F. Burger and H. M. Williams	636,113	Oct. 31	4054	927	89	859
Fireworks-body or the like	L. Nordlinger	639,605	Dec. 19	2606	599	89	2414
Fish and animal trap. Combined	J. Cartier	625,742	May 30	3236	735	87	1409
Fish-car	R. B. Hamel	636,381	Nov. 7	264	58	89	974
Fish-decoy	E. F. Pflueger	636,694	Nov. 7	840	186	89	1093
Fish globe or tank	A. J. Park	634,626	Oct. 10	1213	288	89	258
Fish-hook	H. S. Butz	639,355	Dec. 19	2158	495	89	2325
Fish-hook	C. A. Claflin	622,206	Apr. 4	14	3	87	5
Fish-hook	J. E. Daugherty	633,081	Sept. 12	1616	376	88	2041
Fish-hook	J. D. Dreese	627,179	June 20	1780	390	87	1998
Fish-hook	S. D. Edgar	620,896	Mar. 14	668	145	86	1646
Fish-hook	R. Koen	639,741	Dec. 26	2877	663	89	2486
Fish-hook	S. M. Neely	635,503	Oct. 24	2864	654	89	613
Fish-hook	J. Y. Payton	622,069	Mar. 28	2839	640	86	2092
Fish-hook	T. A. Schlaebitz	623,289	Apr. 18	2026	466	87	425
Fish-hook	T. A. Schlaebitz	623,290	Apr. 18	2027	466	87	425
Fish-hook	T. A. Schlaebitz	627,015	June 13	1500	327	87	1924
Fish-hook guard	W. H. Tuohy	636,591	Nov. 7	638	140	89	1051
Fish-hook receptacle	G. E. Haak	639,030	Dec. 12	1553	356	89	2189
Fish-hook. Spring-actuated	D. W. Anderson	618,764	Jan. 31	3605	805	86	765
Fish-net	J. E. Bjornsen	619,065	Feb. 7	509	107	86	909
Fish-net-raising apparatus	E. Crossley	625,874	May 30	3506	795 796	87	1461
Fish or bait. Artificial	T. Maroney	627,344	June 20	2088	461	87	2060
Fish-plate-slotting punch	R. B. Charlton	632,237	Sept. 5	17	5	88	1712
Fish-plates. Machine for removing saw-burs from	R. B. Charlton	632,236	Sept. 5	15	4	88	1712
Fish-screen for artificial waterways	G. D. Bird	630,769	Aug. 8	1951	440	88	1115
Fish. Tank for transporting live	W. J. Workman	622,581	Apr. 4	716	166	87	136
Fish-trap	O. P. Clark	633,229	Sept. 19	1954	459	88	2119
Fish-trap	J. Evans	621,643	Mar. 21	2037	455	86	1921
Fish-trap	M. Zack	619,819	Feb. 21	1890	431	86	1122
Fishing alarm device	H. Perrin	632,823	Sept. 12	1176	269	88	1956
Fishing. Collapsible snag-hook for	H. Slotterbeck	626,777	June 13	1036	232	87	1834
Fishing device. Automatic	G. Cook	625,829	May 30	3417	776	87	1444
Fishing-hook keeper. Snood	J. Smith	639,454	Dec. 19	2349	541	89	2361
Fishing-line float	A. Bourke	631,197	Aug. 15	2726	617	88	1293
Fishing-net sinker	J. C. Robinson	624,867	May 9	1693	383	87	1052
Fishing-reel	J. T. Hastings	625,166	May 16	2210	501	87	1166
Fishing-reel	D. M. Quarles, Jr	628,847	July 11	1685	393 394	88	349
Fishing-reel	H. J. Smith	630,632	Aug. 8	1740	390	88	1074
Fishing-reel	W. Washburn	620,388	Feb. 28	2898	664	86	1429
Fishing-reel	M. H. Wilcox and J. C. Stewart	632,079	Aug. 29	4351	978	88	1639
Fishing-reel	C. H. Wisner	627,767	June 27	2893	632	87	2236
Fishing-reel	C. H. Wisner	639,008	Dec. 12	1526	349	89	2183
Fishing-reel	P. H. Yawman	629,842	Aug. 1	162	38	88	752
Fishing-reel brake	H. W. Howe	623,718	Apr. 25	2782	636	87	590
Fishing-reel tension attachment	A. V. Chapin	618,599	Jan. 31	3315	737	86	707
Fishing-rod	H. W. Martin	638,733	Dec. 12	1044	234	89	2089
Fishing-tackle	O. T. Dougherty	617,236	Jan. 3	713	166	86	140
Fishing-tool	C. Phillips	621,132	Mar. 14	1131	245	86	1732
Fitting or draping stand	J. A. Ondrak	637,971	Nov. 28	3691	776	89	1755
Flag	H. B. Macartney	632,580	Sept. 5	678	157	88	1840
Flag-fender	W. Hart	634,140	Oct. 3	297	76	89	62
Flagpole	E. Rowe	627,831	June 27	3008	657	87	2257
Flagstaff-truck	D. P. Chesebro	638,095	Nov. 28	3944	829	89	1803
Flanging-machine	F. L. Kollberg	628 099	July 4	269	64, 65	88	53
Flanging-machine	C. E. Macbeth	625,789	May 30	3330	756	87	1428
Flash-lamp	A. J. Swaab and R. de Lamprecht	638,820	Dec. 12	1186	266	89	2118
Flash-light apparatus	S. D. Alter and L. T. Young	625,133	May 16	2162	490	87	1157
Flash-light cartridge	J. E. Blackmore	619,009	Feb. 7	408	85	86	889
Flash-light device	C. W. King	637,800	Nov. 28	3367	706	89	1690
Flash-light pan	F. Shaefer	638,889	Dec. 12	1305	297	89	2141
Flash-lighting apparatus	P. Boyer	623,874	Apr. 25	3101	714	87	651
Flask: *See* Sprinkling-flask.							
Flask-top	F. De Gordy	634,641	Oct. 10	1233	293	89	262
Flasks, bottles, or other receptacles for liquids or pulverulent matter. Stopping of	L. L. J. Godard	621,454	Mar. 21	1697	375	86	1855
Flat-iron-protecting shield	J. B. Miller	626,286	June 6	123	31	87	1637
Flat-iron. Self-heating	J. Abrahamson	635,632	Oct. 24	3097	711	89	659
Flat-irons and linen. Polishing-pad for	S. J. Beckwith	626,664	June 13	806	184	87	1789
Flat-irons or similar articles. Rest or support for	F. H. Chase	639,709	Dec. 26	2813	649	89	2472
Flax breaking and reducing machine	J. T. Smith	634,675	Oct. 10	1296	305 306	89	276
Flexible joint	A. Campbell	628,692	July 11	1425	331	88	296
Flexible material. Machine for making articles of	A. Shedlock and J. A. Hudson	628,728	July 11	1471	341 342	88	307
Flexible material or articles formed therefrom. Apparatus for setting or curing	A. Shedlock and J. A. Hudson	628,729	July 11	1475	342	88	308
Float	V. D. Anderson	640,073	Dec. 26	3480	798	89	2607
Floats, &c. Inflating attachment for	L. Matignon	625,582	May 23	2949	670	87	1335
Flood-gate	W. Cloud	634,442	Oct. 10	894	215	89	196
Flood-gate	H. Hone	625,506	May 23	2820	642	87	1309
Flood-gate	F. Kessler	636,046	Oct. 31	3894	894	89	828
Floor and ceiling for buildings	V. Venezia	633,252	Sept. 19	1989	466 467	88	2126
Floor and ceiling plate	A. J. Beaton	636.943	Nov. 14	1379	294	89	1225

Alphabetical list of inventions—Continued.

Invention.	Name.	No.	Date.	Monthly volume.		Official Gazette.	
				Spec.	Dr'g.	Vol.	Page.
Floor-clamp	E. C. Ingersoll	618,573	Jan. 31	3271	726	86	698
Floor-cloth. Apparatus for manufacturing mosaic	F. Walton	626,117	May 30	4026	919	87	1555
Floor-cloth. Apparatus for manufacturing mosaic	F. Walton	629,280	July 18	2457	570	88	513
Floor-cloth. Apparatus for manufacturing mosaic	F. Walton	629,281	July 18	2458	570, 571, 572	88	513
Floor-cloth. Composition for making	F. Gatzsche	637,106	Nov. 14	1676	------	89	1283
Floor-cloth machine	W. G. Thomson	619,634	Feb. 14	1530	347, 348, 349	86	1125
Floor construction	R. D. Gallagher	632,710	Sept. 12	963	223	88	1912
Floor construction	J. W. Rapp	631,941	Aug. 29	4090	917	88	1588
Floor-covering	E. Berliner	621,316	Mar. 21	1462	324	86	1810
Floor-covering fastener	J. K. Thoma	617,204	Jan. 3	650	152	86	127
Floor-coverings, &c. Composition for	J. Haverstick	619,019	Feb. 7	426	------	86	893
Floor-dresser	L. A. Baumann	619,464	Feb. 14	1230	280	86	1069
Floor foot-shield	W. F. Putnam	634,956	Oct. 17	1784	424	89	387
Floor-frame	F. E. Canda	621,520	Mar. 21	1820	405	86	1878
Floor-mat	C. Schmitt	638,030	Nov. 28	3824	804	89	1781
Floor or sidewalk cleaner	F. W. Richter	625,850	May 30	3452	783	87	1451
Floor, sidewalk-vault roof, &c	P. H. Jackson	621,091	Mar. 14	1043	229	86	1714
Floor-set	W. M. Allen	624,147	May 2	386	78	87	774
Floor-setting tool	L. A. Manwaring	634,561	Oct. 10	1112	264	89	239
Floor-surfacing machine	H. McLoughlin	629,203	July 18	2334	541, 542	88	490
Floor-surfacing machine	F. R. Patch	639,278	Dec. 19	1998	460, 461	89	2292
Floors. Means for securing ceilings, floorings, &c., to solid	A. Katz	637,936	Nov. 28	3633	762	89	1744
Flooring	A. von Hammerstein-Loxten	622,426	Apr. 4	401	93	87	75
Flooring and ceiling	H. C. W. Weyhe	639,544	Dec. 19	2504	577	89	2393
Flooring. Machine for making tongue-and-groove	G. Johnson, Jr	617,023	Jan. 3	305	68, 69, 70, 71, 72	86	61
Flooring, &c. Tongue-and-grooved	J. W. Piver	624,862	May 9	1680	381	87	1049
Flour-bin and spice-cabinet. Combined	D. E. Wiseman	638,433	Dec. 5	474	97	89	1957
Flour-bolt	J. Charles	624,752	May 9	1461	330	87	1007
Flour-bolting machine	H. C. Robinson	633,613	Sept. 26	2683	625	88	2273
Flour chest or bin	M. F. Brown	630,322	Aug. 8	1105	241	88	955
Flour from pumpkins, &c. Making	L. McClatchey	617,423	Jan. 10	1093	------	86	232
Flour, &c. Manufacture of	E. B. Watson	617,266	Jan. 3	763	------	86	150
Flour-packer	W. W. Huntley	619,419	Feb. 14	1154	261	86	1054
Flour-packer	J. M. Mattingly	621,612	Mar. 21	1976	441	86	1908
Flour-packing machine	C. B. Donaldson	618,850	Feb. 7	55	12	86	815
Flower-bed curbing	P. Schaefer	619,352	Feb. 14	1034	232	86	1031
Flower-crimping machine. Artificial	M. Signorastri	631,827	Aug. 29	3895	870	88	1551
Flower-holder	W. H. Walker	626,013	May 30	3807	865	87	1518
Flower-pot	G. H. Hinrichs	627,231	June 20	1869	410	87	2015
Flower-pot	M. L. Price	616,968	Jan. 3	192	44	86	38
Flower-pot	E. S. Williams	632,978	Sept. 12	1447	335	88	2006
Flower-pot. Adjustable	R. E. Burke	637,763	Nov. 28	3307	691	89	1676
Flower-pot holder	C. A. and J. A. Koehler	636,265	Nov. 7	71	17	89	937
Flower-pot-molding machine	H. N. Brooks	639,514	Dec. 19	2443	564	89	2380
Flower-pot stand	W. C. Krick	637,622	Nov. 21	3053	631	89	1607
Flower-pot support	C. O. Stone	633,251	Sept. 19	1987	466	88	2126
Flower-stand	G. H. Carlton	636,632	Nov. 7	726	159	89	1068
Flower-stand	A. H. Freese	617,090	Jan. 3	438	106	86	85
Flower-stand	A. F. Varns	626,513	June 6	543	125, 126	87	1719
Flower-stand. Adjustable and portable	W. H. Minnix	635,940	Oct. 31	3689	852	89	786
Flower-stem material. Artificial	J. C. Elleser	637,719	Nov. 21	3224	671	89	1642
Flowers. Device for crimping artificial	J. de Grandmont	620,029	Feb. 21	2265	513	86	1293
Flowers. Holder or supporter for cut	E. C. Murray	620,347	Feb. 28	2831	645	86	1415
Flue-cleaner	L. Rollins	635,701	Oct. 24	3213	740	89	682
Flue-cleaner	H. A. Ruggles	628,611	July 11	1228	287	88	257
Flue-cutter	P. J. Kruger	636,674	Nov. 7	804	178	89	1085
Flue or chimney	J. W. Campbell	638,953	Dec. 12	1415	353	89	2163
Flue. Smoke-consuming	F. E. Humphreys	636,044	Oct. 31	3891	893	89	827
Flue-stop	G. A. Higgins	620,129	Feb. 28	2448	554	86	1343
Flue-stopper	B. E. Bengtson	618,323	Jan. 24	2791	619	86	593
Flue-stopper	J. W. Fleming	629,244	July 18	2399	555	88	501
Flue-stopper	H. Goodwin	622,221	Apr. 4	45	11	87	12
Flue-stopper	W. D. Powley	620,799	Mar. 7	483	101	86	1596
Flue thimble. Chimney	D. W. Shelley	627,674	June 27	2732	599	87	2203
Fluid-actuated motor for actuating fluid	T. O. Perry	628,547	July 11	1121	262, 263	88	236
Fluid-actuated or fluid-forcing device	J. Hoskin	622,474	Apr. 4	507	120	87	95
Fluid-actuated regulator	G. T. Wilson and E. Webb	623,934	Apr. 25	3211	740	87	672
Fluid-compressor	F. M. Rites	636,180	Oct. 31	4174	958, 959	89	885
Fluid-compressor	C. F. and H. L. Schneider	632,756	Sept. 12	1038	241	88	1927
Fluid-delivery apparatus. Automatic	T L. Valerius	619,451	Feb. 14	1211	275, 276	86	1065
Fluid-discharging apparatus	W. T. Messinger	638,974	Dec. 12	1450	331	89	2170
Fluid heating and sterilizing apparatus	A. G. Waterhouse and J. S. Forbes	638,192	Nov. 28	4132	873	89	1842
Fluid-heating apparatus	E R. Waterman and R. R. Morison	636,091	Oct. 31	4018	918	89	852
Fluid mixtures. Machine for producing and maintaining	A. J. Kautz	635,857	Oct. 31	3533	812	89	756
Fluid-motor	G. R. Bond	624,163	May 2	415	85	87	779
Fluid-pressure brake	M. W. Hibbard	619,481	Feb. 14	1260	288, 289	86	1075
Fluid-pressure brake	H. O. Müller	638,025	Nov. 28	3813	802	89	1779
Fluid-pressure brake. Automatic	J. J. Finney	622,135	Mar. 28	2974	672	86	2119
Fluid-pressure brake. Automatic	J. J. Finney	622,136	Mar. 28	2978	673	86	2120

Alphabetical list of inventions—Continued.

Invention.	Name.	No.	Date.	Monthly volume.		Official Gazette.	
				Spec.	Dr'g.	Vol.	Page.
Fluid-pressure engine	H. J. Kimman	639,737	Dec. 26	2868	660, 661	89	2483
Fluid-pressure engine	A. W. Ofeldt	639,088	Dec. 12	1642	380	89	2205
Fluid-pressure engine	A. F. Parks	639,686	Dec. 19	2771	639, 640	89	2446
Fluid-pressure engine	L. Serpollet	636,926	Nov. 14	1348	288	89	1219
Fluid-pressure generator	L. Le Pontois	617,753	Jan. 17	1693	380, 381	86	369
Fluid-pressure motor	W. B. Erb	637,243	Nov. 21	1976	422, 423	89	1355
Fluid-pressure motor	W. S. Halsey	633,192	Sept. 19	1866	439, 440	88	2101
Fluid-pressure operating device	J. A. Hoff	633,344	Sept. 19	2173	510	88	2161
Fluid-pressure-regulating mechanism	E. H. Weatherhead	637,980	Nov. 28	3710	781	89	1759
Fluid-pressure regulator	I. H. Spencer	622,025	Mar. 28	2774	626	86	2079
Fluid-separator. Automatic	A. J. Simmons	625,904	May 30	3559	808	87	1470
Fluid under pressure. Means for transmitting	W. S. Halsey	637,333	Nov. 21	2151	464	89	1390
Fluid under pressure. System for distributing	A. Kitson	632,499	Sept. 5	524	120, 121	88	1811
Fluids. Device for regulating pressure and quantity of	H. Friedrich	631,741	Aug. 22	3735	838	88	1509
Fluids or gases under pressure. Controlling mechanism for	C. Cummings	635,127	Oct. 17	2137	500	89	457
Fluids. Suction and force apparatus for	W. M. Morgan	625,785	May 30	3321	754, 755	87	1426
Flume and water-outlet therefor	J. A. Blake	636,747	Nov. 14	995	212	89	1150
Flush switch	W. R. Pettis	635,587	Oct. 24	3011	691	89	641
Flush-tank	W. Mackintosh	627,778	June 27	2913	637	87	2239
Flushing apparatus	J. W. Berry	638,002	Nov. 28	3764	790	89	1769
Flushing apparatus	R. A. Merrill	631,025	Aug. 15	2430	551	88	1234
Flushing apparatus	A. N. Pasman	629,463	July 25	2805	652	88	603
Flushing apparatus for bowls, tanks, &c	F. Burger	638,441	Dec. 5	487	99	89	1960
Flushing apparatus for sanitary or other fixtures	E. C. Stover	624,569	May 9	1156	259	87	946
Flushing mechanism. Automatic	J. W. Fry	621,058	Mar. 14	988	215	86	1704
Flushing-tank	C. J. Ball	630,437	Aug. 8	1372	308	88	1004
Flushing-tank	D. D. Buick	630,586	Aug. 8	1649	368	88	1058
Flushing-tank. Closet	E. B. Badlam	626,882	June 13	1268	277	87	1877
Flushing valve or apparatus	H. T. Bush	637,499	Nov. 21	2452	532	89	1450
Flute or clarinet key mechanism	C. T. Howe	624,034	May 2	153	34	87	732
Fly. Artificial	A. Manchester	633,726	Sept. 26	2882	670	88	2313
Fly-catcher	D. F. Trowbridge	629,279	July 18	2455	570	88	512
Fly-catching apparatus	A. Herzog	633,453	Sept. 19	2368	558	88	2198
Fly-escape. Window	A. J. Collar	619,865	Feb. 21	1983	451	86	1240
Fly-exterminator	G. A. Carpenter	632,674	Sept. 5	863	201	88	1880
Fly-paper cage	J. J. Requa	624,249	May 2	564	120	87	807
Fly-paper holder	C. F. Fernald and F. J. Karten	617,243	Jan. 3	722	167	86	141
Fly-paper holder	R. D. Safford	620,505	Feb. 28	3081	704	86	1463
Fly-paper holder	J. W. Schriever	628,494	July 11	1015	236	88	216
Fly-paper. Sticky	W. Thum	632,827	Sept. 12	1182	270	88	1958
Fly-paste. Apparatus for covering strings with	J. N. Wright	617,384	Jan. 10	1010	231	86	216
Fly-screen	A. S. Miles	627,588	June 27	2567	566	87	2169
Fly-screen	F. W. Van Tuyl	623,445	Apr. 18	2300	527	87	481
Fly-screen attachment	A. G. Kall	638,395	Dec. 5	402	84	89	1943
Fly-trap	A. W. Allen	618,370	Jan. 24	2872	637	86	608
Fly-trap	J. L. Boone	638,438	Dec. 5	483	98	89	1959
Fly-trap	A. B. Forrest	627,109	June 20	1662	363	87	1974
Fly-trap	A. Hammond	635,732	Oct. 24	3289	759	89	695
Fly-trap	F. A. Lane	632,313	Sept. 5	196	44	88	1745
Fly-trap	F. Schulmeister	635,813	Oct. 31	3438	793	89	739
Fly-trap	E. Wuerfel	632,303	Sept. 5	181	41	88	1743
Fly-trap. Automatic	M. S. Featherstone	620,292	Feb. 28	2732	626	86	1397
Fodder-cutting machine	R. M. Dyer	634,939	Oct. 17	1755	417	89	381
Folding and creasing machine	J. F. and J. A Cameron	623,882	Apr. 25	3112	717	87	654
Folding and wrapping machine	L. C. Crowell	626,674	June 13	827	189, 190	87	1794
Folding box	W. D. Best	633,782	Sept. 26	2975	690	88	2332
Folding box	E. M. Cunard and C. C. Hannold	628,196	July 4	441	105	88	89
Folding box	L. F. Ferrell	635,377	Oct. 24	2584	600	89	559
Folding box	C. G. Ingersoll	627,334	June 20	2067	456	87	2056
Folding box	A. Josephson	620,711	Mar. 7	322	66	86	1564
Folding box	R. A. Kneeland	628,542	July 11	1113	259, 260	88	234
Folding box	F. R. Vernon	637,838	Nov. 28	3445	720	89	1707
Folding chair	H. L. C. F. Ihde	635,486	Oct. 24	2839	648	89	609
Folding chair and couch. Combined	A. Grenier	639,554	Dec. 19	2529	581	89	2398
Folding chair or seat	F. O. Brandt	620,220	Feb. 28	2609	593	86	1372
Folding gate	J. S. P. Kinman	639,401	Dec. 19	2251	519	89	2342
Folding-machine	N. Haywood	628,798	July 11	1611	371, 372	88	335
Folding-machine	R. C. Seymour	629,928	Aug. 1	350	77, 78	88	790
Folding or collapsible box	J. H. Chenoweth	628,760	July 11	1535	355, 356	88	320
Folding seat	H. S. Kidd and M. H. Depue	636,671	Nov. 7	799	177	89	1083
Folding seat	G. P. Street, Sr., and B. H. Coursey	633,399	Sept. 19	2279	537	88	2181
Folding table	H. G. Bushnell	631,556	Aug. 22	3407	770	88	1445
Folding table	J. Hock	631,465	Aug. 22	3222	732	88	1408
Folding table	J. W. Hoshour	628,712	July 11	1448	337	88	301
Folding table	C. F. Kade	633,762	Sept. 26	2941	682	88	2324
Folding table	H. G. Leisenring	623,794	Apr. 25	2949	673, 674	87	623
Folding table	H. Makinen	633,203	Sept. 19	1884	444	88	2105
Folding table	C. H. Sanford	637,289	Nov. 21	2051	440	89	1370
Folding trap	C. C. Brandon	623,875	Apr. 25	3102	714, 715	87	652
Folding tub and similar vessel	J. A. Shearer	618,442	Jan. 31	3041	672	86	654
Follower	J. K. Gaines	631,365	Aug. 22	3042	689	88	1373

Alphabetical list of inventions—Continued.

Invention.	Name.	No.	Date.	Monthly volume. Spec.	Monthly volume. Dr'g.	Official Gazette. Vol.	Official Gazette. Page.
Follower. Split	J. F. Collins	626,366	June 6	296	67	87	1671
Fomentations. Press for preparing	M. J. Smith	635,200	Oct. 17	2260	527	89	480
Food-chopper	L. T. Snow	626,212	May 30	4210	957	87	1592
Food for infants. Preparing	W. R. Dodd	620,645	Mar. 7	193	------	86	1539
Food from bananas and making same. Cattle-	O. Zürcher	620,209	Feb. 28	2595	------	86	1369
Food. Machine for bruising and softening certain articles of	H. P. L. F. Chaussinand	637,446	Nov. 21	2355	508	89	1431
Food supplies. Vessel for retaining flavor of	N. J. Scott	636,457	Nov. 7	380	85	89	998
Food-warmer	W. and A. Castle	626,219	June 6	11	3	87	1617
Foot-covering	P. Petchaft	619,837	Feb. 21	1923	438	86	1229
Foot or leg rest	G. Kelly	621,098	Mar. 14	1060	231	86	1718
Foot-rail bracket	M. Bast	626,214	June 6	2	1	87	1615
Foot-rest. Adjustable	P. N. Cook	619,467	Feb. 14	1233	281	86	1069
Foot-rest. Adjustable	T. B. Criddle	619,071	Feb. 7	517	109	86	911
Foot-rest. Adjustable	J. A. Moore	634,582	Oct. 10	1143	271	89	245
Foot-rest and child's seat. Combined	J. R. John	628,331	July 4	738	168	88	140
Foot-warmer	J. V. and R. S. Kirkland	619,045	Feb. 7	470	98	86	901
Foot-warmer	A. and W. C. Meyer	628,182	July 4	422	99, 100	88	85
Foot-warmer	C. H. Whitaker	627,555	June 27	2505	551	87	2157
Foot-warmer. Locomotive-engineer's	M. McCune	632,877	Sept. 12	1290	296	88	1976
Forceps	M. L. Harris	621,565	Mar. 21	1903	425	86	1894
Forceps	E. G. Link	617,587	Jan. 10	1383	314	86	288
Forceps. Alveoli-amputating	G. B. Clement	617,955	Jan. 17	2092	469	86	448
Forceps. Druggist's bottle-	P. H. Flyun	619,949	Feb. 21	2122	480	86	1266
Forceps. Pig-	H. J. Totten	617,371	Jan. 10	989	227	86	211
Forge. Portable	C. Hammelmann	633,314	Sept. 19	2123	498	88	2151
Forge. Portable	T. Lennox	639,817	Dec. 26	3023	696	89	2515
Forges. Air-mixing drum for	J. Klimek	625,568	May 23	2930	665	87	1331
Forges. Means for heating applicable to	H. B. Burin	635,229	Oct. 17	2311	539	89	490
Forging and sharpening machine. Drill	W. J. Evans	637,102	Nov. 14	1670	362	89	1282
Forging and sharpening rock-drills	W. Daly	631,281	Aug. 22	2890	653, 654	88	1343
Forging. Drop-	W. R. Howe	637,792	Nov. 28	3354	703	89	1688
Forging horseshoe-nails, &c. Machine for	H. A. Williams	625,229	May 16	2314	526, 527, 528, 529	87	1187
Forging-machine	F. W. Wesner	631,481	Aug. 22	3252	738	88	1415
Forging machine. Rotary steel-ball-	C. C. Hill	635,776	Oct. 31	3373	779	89	726
Fork	I. Hirsch	619,305	Feb. 14	964	218	86	1018
Fork cleaner. Table-	P. Meyer	627,622	June 27	2644	581	87	2186
Forks, spoons, &c. Cleaning and polishing apparatus for	A. G. Phillips	635,870	Oct. 31	3559	819	89	761
Form-cylinder	E. Hett	637,563	Nov. 21	2703	562, 563	89	1515
Form to materials. Machine for giving	J. H. Pellerin	630,265	Aug. 1	977	215	88	915
Forms and of printing. Method of preparing	E. Hett	637,560	Nov. 21	2669	560	89	1505
Formaldehyde solution	J. J. A. Trillat	628,502	July 11	1026	------	88	218
Forts or fortifications. Construction of	M. C. Mengis	620,161	Feb. 28	2499	568	86	1353
Fortune-telling apparatus	F. A. Richter	631,671	Aug. 22	3596	810, 811	88	1484
Fortune-telling apparatus	F. A. Richter	631,672	Aug. 22	3599	811, 812	88	1484
Fortune-telling apparatus	F. A. Richter	631,673	Aug. 22	3602	812, 813	88	1485
Fortune-telling device	E. M. Long and M. F. Capron	634,579	Oct. 10	1139	270	89	244
Founding and molding	A. F. Cothias	623,203	Apr. 18	1869	428	87	392
Foundry plant	W. W. Doolittle	623,355	Apr. 18	2147	494	87	448
Foundry power-riddle	U. Eberhardt	626,019	May 30	3814	867	87	1520
Fountain: *See* Aerated-water fountain. Soda-fountain. Stock-fountain. Drinking-fountain. Watering fountain. Ornamental fountain.							
Fountain	E. D. Brainard	634,569	Oct. 10	1121	266, 267	89	241
Fountain	F. W. Darlington	618,398	Jan. 31	2960	655	86	641
Fracture-apparatus joint	K. Olsen	621,366	Mar. 21	1546	342	86	1826
Frame: *See* Bicycle-frame. Quilting-frame. Necktie-frame. Spinning-frame. Picture-frame. Vehicle-frame. Prism-light frame.							
Frame and sash. Metallic	A. Rasner	620,669	Mar. 7	237	49	86	1548
Frame-joint	H. Belcher and F. Easom	620,832	Mar. 7	547	117	86	1609
Frame-joint	H. L. Trebert	623,495	Apr. 18	2382	548	87	497
Frame-junction	E. Taylor	637,046	Nov. 14	1567	338	89	1263
Frames with glued mitered joints. Clamping appliance for	B. Müller	633,657	Sept. 26	2754	640	88	2287
Freezer	J. A. E. Anderson	638,688	Dec. 12	963	214	89	2074
Freezer. Dry-air	F. W. Merrill	618,115	Jan. 24	2402	536	86	520
Freezing device for microtomes	H. R. Gaylord	633,310	Sept. 19	2115	496	88	2150
Freezing-machine	H. A. Fleuss	618,934	Feb. 7	230	52	86	848
Freight-tracer. Fast	J. W. Connell	620,742	Mar. 7	378	77, 78	86	1575
Frequency-changer	C. P. Steinmetz	620,986	Mar. 14	848	186	86	1678
Frequency-changer	C. P. Steinmetz	620,987	Mar. 14	852	186	86	1679
Frequency-changer	C. P. Steinmetz	620,990	Mar. 14	859	187	86	1681
Friction-coupling	R. Böttcher	627,797	June 27	2954	645	87	2247
Frog. Spring-	C. Partington	627,438	June 20	2285	503	87	2099
Frogless switch	J. Graham	618,411	Jan. 31	2989	662	86	646
Frost-protector	J. H. Stevens	628,997	July 18	1966	457	88	420
Fruit-cleaner	J. W. Hendrix	626,613	June 6	700	162	87	1750
Fruit-cleaning machine	B. B. and J. H. Wright	622,937	Apr. 11	1360	312	87	278
Fruit-conveyer	J. Carlton	638,832	Dec. 12	1206	271	89	2121

Alphabetical list of inventions—Continued.

Invention.	Name.	No.	Date.	Monthly volume.		Official Gazette.	
				Spec.	Dr'g.	Vol.	Page.
Fruit-dresser	W. Northrop	624,851	May 9	1663	376	87	1046
Fruit-drier	C. J. Kurtz	625,778	May 30	3308	751	87	1423
Fruit-drier	E. McClatchey	639,755	Dec. 26	2902	669	89	2490
Fruit-drier	E. F. Schneider	628,212	July 4	471	113	88	94
Fruit-drier	W. Mitcham	620,793	Mar. 7	474	99	86	1594
Fruit-drier	E. N. Thomas and G. L. Thompson.	617,823	Jan. 17	1853	414	86	400
Fruit-drying tray	S. H. Chase	635,423	Oct. 24	2723	624	89	586
Fruit from damage in shipment. Method of and device for preserving	S. R. Divine	617,235	Jan. 3	712	165	86	139
Fruit-gatherer	M. J. Cross	638,912	Dec. 12	1347	307	89	2149
Fruit-gatherer	P. M. Gutleber	635,316	Oct. 24	2468	574	89	536
Fruit-gatherer	C. M. Stewart	620,195	Feb. 28	2565	583	86	1363
Fruit gatherer and grader	E. C. Frazee	622,216	Apr. 4	35	8	87	9
Fruit-gatherer. Derrick	H. T. Griffith	620,913	Mar. 14	700	153, 154	86	1651
Fruit-gathering device	J. H. Crumb	624,757	May 9	1475	335	87	1011
Fruit-grader	L. Cunningham and H. M. Barngrover.	627,254	June 20	1906	420	87	2023
Fruit-grader	W. Morley and A. M. Patrick	620,045	Feb. 21	2298	521, 522	86	1299
Fruit-grader	R. Powell	621,281	Mar. 14	1387	307	86	1786
Fruit-grader	R. M. Pratt	639,906	Dec. 26	3167	729, 730	89	2542
Fruit grader, dipper, aud spreader	F. M. Starrett	628,866	July 11	1719	401, 402	88	355
Fruit-jar	F. Lessing, Jr	624,509	May 9	1044	235	87	924
Fruit or vegetable cleaner and grader	J. Mann	638,585	Dec. 5	748	161	89	2009
Fruit or vegetable cutter	W. Madison	621,264	Mar. 14	1351	300	86	1776
Fruit or vegetable press	J. A. Ware	625,224	May 16	2306	525	87	1186
Fruit-package and method of packing fruits for shipment.	A. M. Augustine	637,844	Nov. 28	3454	721	89	1708
Fruit-picker	R. W. Casler	630,446	Aug. 8	1387	311	88	1007
Fruit-picker	C. Fliegenschmidt	626,058	May 30	3890	883	87	1532
Fruit-picker	W. Mussman	617,346	Jan. 10	937	216	86	202
Fruit-picker	H. W. Propst	617,258	Jan. 3	752	176	86	148
Fruit-picker	S. P. Truitt	621,509	Mar. 21	1797	400	86	1873
Fruit-picker	J. C. Wood	635,990	Oct. 31	3798	874	89	809
Fruit-picker's bag	J. Wilson	619,061	Feb. 7	503	106	86	908
Fruit-press	A. H. Bales	636,708	Nov. 7	874	194	89	1100
Fruit-press	L. Blatz	621,773	Mar. 21	2293	515	86	1971
Fruit-seeding machine	G. Pettit, Jr	619,693	Feb. 14	1637	375, 376	86	1147
Fruit-seeding machine	A. W. Stott	622,560	Apr. 4	679	158	87	129
Fruit-wrapping machine	J. C. Wilson	639,375	Dec. 19	2202	509, 510	89	2333
Fruits and vegetables. Apparatus for separating skin from edible parts of	W. T. Young	622,584	Apr. 4	721	167	87	137
Fruits. Machine for separating currants or like	B. F. Dingley, Jr	636,398	Nov. 7	287	64	89	978
Frying fish. Rack for	M. R. Geer	629,127	July 18	2207	511	88	467
Fuel	A. Campbell	624,173	May 2	426	------	87	781
Fuel and making same. Composite	C. O. P. Howell	624,495	May 9	1013	------	87	918
Fuel. Apparatus for combustion of	F. Kluge	626,386	June 6	332	76	87	1678
Fuel. Apparatus for manufacturing and pressing artificial	H. C. B. Forester	630,676	Aug. 8	1807	407, 408	88	1087
Fuel. Artificial	J. T. Davis	619,728	Feb. 21	1725	------	86	1190
Fuel. Artificial	J. T. Davis	619,729	Feb. 21	1726	------	86	1190
Fuel. Artificial	J. T. Davis	621,041	Mar. 14	966	------	86	1700
Fuel. Artificial	H. C. B. Forester	630,677	Aug. 8	1811	------	88	1088
Fuel. Artificial	J. W. Leadbeater	622,373	Apr. 4	301	------	87	58
Fuel. Artificial	H. M. Van Etten	638,612	Dec. 5	801	------	89	2019
Fuel. Artificial	H. Wolff	623,504	Apr. 18	2403	------	87	501
Fuel. Binding material for artificial	H. Wolff	626,199	May 30	4192	------	87	1588
Fuel-blocks. Apparatus for manufacturing	W. B. Hartridge	630,691	Aug. 8	1831	413	88	1091
Fuel for furnaces or the like. Apparatus for effecting combustion of liquid	J. S. V. Bickford	631,612	Aug. 22	3504	789	88	1465
Fuel-hopper	W. Swindell	624,402	May 2	836	188, 189	87	861
Fuel. Manufacture of	G. Spiecker	617,867	Jan. 17	1933	------	86	416
Fuel. Means for feeding and burning pulverized	W. Westlake	622,935	Apr. 11	1354	311, 312	87	277
Fuel or coal saver	W. S. Garland	625,754	May 30	3261	------	87	1414
Fuel. Peat	A. A. Dickson	624,629	May 9	1253	------	87	966
Fuel preparing and feeding apparatus	A. A. Day	634,552	Oct. 10	1091	259	89	235
Fulling-mill	A. S. Hopkins	632,119	Aug. 29	4434	996	88	1657
Fulling-mill	A. S. Hopkins	634,943	Oct. 17	1760	418, 419	89	382
Fulling-mill stop-motion	A. Murdock	639,424	Dec. 19	2292	529	89	2349
Fume-injecting device	A. R. Miller	621,613	Mar. 21	1978	441	86	1909
Fumes. Machine for generating and utilizing noxious	W. T. Hanaway	632,566	Sept. 5	658	153	88	1837
Fumigating and extinguishing fires in closed compartments. Method of and apparatus for	T. A. Clayton	633,807	Sept. 26	3007	699	88	2338
Fumigating device	G. L. Taylor	619,700	Feb. 14	1655	380	86	1151
Fumigator	T. H. McDonald	634,990	Oct. 17	1860	442	89	403
Funnel	C. Goergen	625,551	May 23	2901	659	87	1326
Funnel	C. F. Krause, Jr	622,696	Apr. 11	938	216	87	198
Funnel	C. A. Lloyd	638,728	Dec. 12	1039	232	89	2088
Funnel	J. B. Paradis	619,836	Feb. 21	1920	438	86	1228
Funnel	J. M. E. Riedel and O. F. J. Grahl	618,996	Feb. 7	392	82	86	886
Funnel	J. M. E. Riedel and O. F. J. Grahl	637,285	Nov. 21	2044	438	89	1368
Funnel	E. W. Vacher	633,628	Sept. 26	2711	631	88	2278
Funnel. Automatic	C. W. Wurster	630,965	Aug. 15	2318	527, 528	88	1212
Funnel. Indicating	O. Treibel and A. C. Nier	631,099	Aug. 15	2568	581	88	1260

Alphabetical list of inventions—Continued.

Invention.	Name.	No.	Date.	Monthly volume. Spec.	Monthly volume. Dr'g.	Official Gazette. Vol.	Official Gazette. Page.
Furnace: *See* Annealing-furnace. Assay-furnace. Assaying-furnace. Blast-furnace. Boiler-furnace. Calcining-furnace. Carbid-furnace. Crucible-furnace. Cupola-furnace. Downdraft-furnace. Electric furnace. Electrical furnace. Gas-furnace. Glass-furnace. Glass-annealing furnace. Glass-melting furnace. Glory-hole furnace. Heating-furnace. Heating and annealing furnace. Heating or roasting furnace. Hot-air furnace. Hot-air blower-furnace. Kiln or boiler furnace. Manufacturing or other furnace. Metallurgical furnace. Ore-reducing furnace. Ore-roasting furnace. Ore roasting and calcining furnace. Oxidizing-furnace. Regenerative furnace. Roasting-furnace. Roasting and oxidizing furnace. Roasting and smelting furnace. Roasting or drying furnace. Rotary furnace. Sheet and pair furnace. Smelting-furnace. Smoke-consuming furnace. Smokeless furnace. Soft-coal furnace. Steam-superheating furnace. Straw-burning furnace.							
Furnace	J. B. Archer	638,689	Dec. 12	965	214, 215	89	2074
Furnace	J. L. Brown and J. R. Tanner	638,089	Nov. 28	3909	823	89	1798
Furnace	J. Flaherty	635,469	Oct. 24	2811	642	89	605
Furnace	W. P. Grath	636,037	Oct. 31	3880	891	89	824
Furnace	M. C. Hawley. (Reissue)	11,793	Dec. 12	1869	430, 431	89	2250
Furnace	B. C. Heavey	635,318	Oct. 24	2470	574, 575	89	537
Furnace	A. Heil	621,665	Mar. 21	2080	465	86	1930
Furnace	P. O. Krottnaurer	628,336	July 4	733	169, 170	88	141
Furnace	D. H. Lentz	625,402	May 23	2637	599	87	1274
Furnace	W. McClave	622,517	Apr. 4	595	139, 140, 141, 142	87	112
Furnace	W. McClave	622,518	Apr. 4	603	142	87	114
Furnace	W. McClave	622,519	Apr. 4	604	142, 143	87	114
Furnace	W. McClave	630,916	Aug. 15	2217	505, 506	88	1193
Furnace	W. McClave	631,901	Aug. 29	4017	899, 900	88	1575
Furnace	E. Reynolds	624,979	May 16	1891	424	87	1108
Furnace	W. and J. C. Swindell	633,349	Sept. 19	2185	513	88	2163
Furnace	E. M. Washburn	619,852	Feb. 21	1958	444	86	1236
Furnace air-feeding apparatus	J. S. Newlin	628,349	July 4	754	174	88	145
Furnace and mechanical stoker therefor	W. McClave	622,515	Apr. 4	584	136, 137, 138	87	110
Furnace and mechanical stoker therefor	W. McClave	622,516	Apr. 4	591	138, 139	87	111
Furnace appliance. Metallurgical	W. Beam	622,438	Apr. 4	429	99, 100	87	80
Furnace attachment	G. M. Lindsay and G. Saunders	623,408	Apr. 18	2237	512	87	467
Furnace attachment. Ore-roasting	J. T. Hutson	626,281	June 6	115	30	87	1636
Furnace case-ring	W. Clerkin and G. Maag	637,548	Nov. 21	2547	551	89	1468
Furnace-charging apparatus	G. Lentz	627,825	June 27	2997	655	87	2255
Furnace-charging apparatus. Blast-	S. T. Wellman, J. W. Seaver, and C. H. Wellman.	623,854	Apr. 25	3068	706, 707	87	645
Furnace-charging machine	D. H. Lentz and H. C. Shaw	621,107	Mar. 14	1076	234	86	1722
Furnace construction. Steam-boiler	L. M. Moyes	621,459	Mar. 21	1708	379	86	1858
Furnace-door	J. Whittle	623,452	Apr. 18	2314	529	87	483
Furnace-door	G. W. Wolf	619,817	Feb. 21	1887	431	86	1221
Furnace-door hinge. Heating	J. A. Jensen	629,447	July 25	2780	646	88	597
Furnace draft-economizer	J. B. Houston	627,853	June 27	3047	666	87	2265
Furnace feeder and grate	C. J. Bell	628,740	July 11	1496	347	88	313
Furnace feeder. Steam-boiler	D. B. Devore	623,993	May 2	74	16	87	716
Furnace-feeding apparatus. Blast	E. E. Slick	620,510	Feb. 28	3089	706, 707	86	1465
Furnace fire-bridge	J. Alves	625,916	May 30	3582	813	87	1475
Furnace for annealing, baking, &c	W. E. Saunders	635,025	Oct. 17	1910	455, 456	89	413
Furnace for burning pulverized fuel or the like	J. B. Archer	638,161	Nov. 28	4078	860	89	1829
Furnace for burning refuse	C. Wegener	633,300	Sept. 19	2075	486	88	2142
Furnace for consuming household refuse, &c	C. Wegener	633,301	Sept. 19	2075	486	88	2142
Furnace for consuming refuse	C. Wegener	633,299	Sept. 19	2073	486	88	2141
Furnace for heating ingots	C. H. Morgan	632,020	Aug. 29	4239	954	88	1618
Furnace for heating ingots or billets	V. E. Edwards	627,721	June 27	2816	617	87	2219
Furnace for heating soldering-irons	G. Bickelhaupt	637,198	Nov. 14	1887	405	89	1323
Furnace for treating ores	A. G. Wells	625,912	May 30	3574	811	87	1473
Furnace fuel-feed device	C. Groll	619,167	Feb. 7	710	153	86	950
Furnace gases. Apparatus for separating dust from blast-	B. H. Thwaite	617,618	Jan. 10	1436	328	86	299
Furnace generator. Steam-boiler	J. O. Morris	631,120	Aug. 15	2604	588	88	1267
Furnace-grate	W. M. Green and J. R. Gent	637,108	Nov. 14	1678	364	89	1283
Furnace-grate	T. E. Martin	619,494	Feb. 14	1284	294	86	1080

Alphabetical list of inventions—Continued.

Invention.	Name.	No.	Date.	Monthly volume.		Official Gazette.	
				Spec.	Dr'g.	Vol.	Page.
Furnace grate-bar	F. R. Tibbitts	637,304	Nov. 21	2089	450	89	1377
Furnace grate-mounting	R. Galbraith	619,162	Feb. 7	703	150 151	86	949
Furnace-grate. Rotary	C. Groll	637,732	Nov. 21	3246	676	89	1646
Furnace heat-regulating attachment	C. P. Caldwell	632,803	Sept. 12	1135	262	88	1947
Furnace hot-air pipe	I. Stearns	629,095	July 18	2146	499	88	456
Furnace implement	W. L. Williams	622,094	Mar. 28	2885	650	86	2101
Furnace lining. Metallurgical-	B. Talbot	628,288	July 4	628	------	88	121
Furnace-peel	S. M. Guss	629,993	Aug. 1	495	108	88	820
Furnace-protecting device	J. S. Unger	627,159	June 20	1746	383	87	1991
Furnace reversing-valve. Regenerative-	H. T. Newell	634,907	Oct. 17	1706	403	89	372
Furnace-shield	W. and J. Lanyon	621,577	Mar. 21	1920	429	86	1898
Furnace smoke-consuming device	C. W. Brown	621,214	Mar. 14	1258	278	86	1759
Furnace spark-arrester and draft-producer	A. Bréchot	628,750	July 11	1519	352	88	317
Furnace-twyers. Apparatus for regulating discharge area of	P. Benni	636,239	Nov. 7	14	4	89	927
Furnace wall-cooling device	A. P. Gaines and C. J. Gustafson	628,790	July 11	1585	365 366	88	330
Furnace wall-cooling device	G. R. Johnson	633,849	Sept. 26	3086	717	88	2354
Furnaces. Air-feeding apparatus for boiler-	J. Howden	634,348	Oct. 3	729	174	89	146
Furnaces. Air-feeding apparatus for boiler-	W. Kneen	628,817	July 11	1642	378 379	88	341
Furnaces, &c. Apparatus for burning liquid fuel and the application thereof to heating	G. de Roussy de Sales and A. Charbonnel.	622,172	Mar. 28	3043	689	86	2133
Furnaces. Apparatus for charging materials into open-hearth	A. Jack	632,183	Aug. 29	4569	1029	88	1682
Furnaces. Apparatus for charging materials into open-hearth steel-melting	J. Powell, D. Colville, Jr., J. Jardine, and T. B. Mackenzie.	639,090	Dec. 12	1649	381	89	2206
Furnaces. Apparatus for perfecting combustion in boiler-	L. St. Peter	631,829	Aug. 29	3896	871	88	1551
Furnaces. Apparatus for preparing and feeding fuel to	C. M. Day	617,522	Jan. 10	1252	285 286	86	264
Furnaces. Charging device for heating-	J. Hundley	634,499	Oct. 10	989	237	89	215
Furnaces. Cooling attachment for ore-roasting	J. E. Rothwell	625,608	May 23	2989	681	87	1343
Furnaces. Cupel-cooler for assay-	W. D. Longwood	633,462	Sept. 19	2381	560	88	2201
Furnaces. Device for introducing air into steam-boiler	H. Harlan	627,688	June 27	2759	605	87	2208
Furnaces. Door and deflector-plate for steam-boiler	F. L. Horspool and G. J. Kelly	626,280	June 6	113	30	87	1635
Furnaces. Exhaust blast apparatus for locomotive-	J. Whittle	625,913	May 30	3577	812	87	1474
Furnaces. Feeding device for steam-boiler	J. Davies	626,981	June 13	1428	315	87	1909
Furnaces. Fire-brick arch for	H. S. Vrooman	624,270	May 2	598	129	87	812
Furnaces. Grate for underfeeding	B. D. Childrey	620,103	Feb. 28	2403	543	86	1333
Furnaces. Injector-burner for hydrocarbon-	G. Chelimsky	629,338	July 25	2577	597	88	555
Furnaces. Means for charging open-hearth	H. Tomkins	617,663	Jan. 10	1519	344 345	86	315
Furnaces. Mechanical feeder and stoker for	J. Kudlicz	623,284	Apr. 18	2016	463 464	87	423
Furnaces. Method of and apparatus for burning coal without smoke in	A. Heberer	627,060	June 13	1571	343	87	1937
Furnaces. Method of and apparatus for utilizing waste gases and heat from electric	W. Borchers	630,283	Aug. 1	1015	223	88	923
Furnaces. Nozzle for feeding fine fuel to	C. A. Robinson	639,437	Dec. 19	2319	535	89	2354
Furnaces. Open fire-door for	O. A. Alexander	632,615	Sept. 5	729	168	88	1851
Furnaces. Preventing smoke and improving combustion in	J. M. Wilson	621,884	Mar. 28	2508	560	86	2028
Furnaces. Rabble-arm for ore-roasting	J. Jacobs	622,233	Apr. 4	61	14	87	15
Furnaces. Smoke and gas returning apparatus for	D. Goff	618,863	Feb. 7	83	17, 18	86	821
Furniture	A. J. Kearns	626,429	June 6	398	94	87	1691
Furniture-brace	B. L. Wyatt	632,613	Sept. 5	727	168	88	1850
Furniture brace. Knockdown-	D. W. Kendall	636,434	Nov. 7	347	78	89	991
Furniture. Combination	L. Wolz	639,482	Dec. 19	2399	552	89	2372
Furniture. Composition for cleaning and polishing	F. R. Wegerdt	618,592	Jan. 31	3305	------	86	705
Furniture. Composition of matter for cleansing and polishing	O. P. Macklin	628,482	July 11	998	------	88	213
Furniture-fastening	F. C. Arbenz	625,634	May 23	3041	693	87	1354
Furniture-fastening	J. Tillotson	619,516	Feb. 14	1322	303	86	1089
Furniture-frame	O. G. Franks	640,123	Dec. 26	3567	820	89	2625
Furniture-leg	W. E. Buser	625,965	May 30	3669	833	87	1492
Furniture-pad	N. Stock	630,128	Aug. 1	750	161	88	872
Furniture-pad	N. Stock	638,997	Dec. 12	1511	346	89	2180
Furniture. School	C. H. Lawton	636,816	Nov. 14	1119	240	89	1175
Furniture. School	W. H. Metting	630,253	Aug. 1	964	212	88	913
Furniture-spring	F. J. Seng	618,910	Feb. 7	159	34	86	836
Furniture. Store	J. E. Kleiner and L. Parkinson	617,292	Jan. 3	821	191	86	162
Furniture to floors. Means for fastening	C. O. Halliday	621,337	Mar. 21	1493	331	86	1817
Furrow-opener	W. Y. Harding	634,239	Oct. 3	494	127	89	100
Furrow-opener. Disk	F. R. Packham	621,701	Mar. 21	2147	478	86	1944
Furrow-opener. Disk	F. R. Packham	630,629	Aug. 8	1735	389	88	1073
Furrow-openers. Press-wheel attachment for	F. R. Packham	627,520	June 27	2433	535	87	2143
Furs, &c. Liming	E. E. M. Payne, J. and E. E. Pullman	631,405	Aug. 22	3113	------	88	1387
Fuse	H. P. Merriam	630,620	Aug. 8	1713	385	88	1070
Fuse-block for electric circuits	H. P. Davis	629,663	July 25	3174	740	88	673
Fuse. Combined time and percussion	J. A. Walsh	617,265	Jan. 3	761	178	86	150
Fuse. Electric	W. S. Hadaway, Jr	620,309	Feb. 28	2766	633	86	1403
Fuse. Electric	I. Kitsee	640,001	Dec. 26	3349	766	89	2580
Fuse for projectiles	H. P. Merriam	630,621	Aug. 8	1715	385	88	1070
Fuse for projectiles	H. P. Merriam	630,622	Aug. 8	1720	385	88	1070
Fuse for shells. Percussion-	A. B. Markham	627,003	June 13	1480	324	87	1920
Fuse or cut-out. Electric safety	W. M. Mordey	622,511	Apr. 4	574	134	87	108
Fuse. Protective	E. B. W. Reichel	622,075	Mar. 28	2851	642	86	2094
Fuse-plug	L. C. Orrell	617,765	Jan. 17	1720	386	86	373
Fuse removing and replacing device	C. L. Duenkel	626,371	June 6	304	70	87	1673
Fuse. Safety-	J. Sachs	636,565	Nov. 7	598	131	89	1043
Fuse. Shell-	A. T. Dawson and G. T. Buckham	629,552	July 25	2978	696	88	636

Alphabetical list of inventions—Continued.

Invention.	Name.	No.	Date.	Monthly volume. Spec.	Monthly volume. Dr'g.	Official Gazette. Vol.	Official Gazette. Page.
Fuse. Time	O. Hartmann	629,160	July 18	2263	524	88	477
Fuse-wire holder	A. Peters	637,941	Nov. 28	3641	764	89	1745
Fuses. Manufacture of electrical	R. M. Hunter	637,120	Nov. 14	1729	372	89	1292
Fusee	W. D. Jackson	617,576	Jan. 10	1368	310	86	285
Fusee for railway or other uses	R. M. Clark	630,035	Aug. 1	586	128	88	839
Fusee thrower and guide	G. B. Howard	627,232	June 20	1870	410	87	2015
Fusible plug	C. G. Perkins	637,891	Nov. 28	3555	745	89	1729
Gage: *See* Boiler water-gage. Caliper-gage. Carpenter's gage. Cutter-head bit-gage. Cutter setting-gage. Embossing-machine gage. Eyeglass-gage. Eyeleting-machine gage. Feed-gage. Leather-gage. Micrometer-gage. Micrometer depth-gage. Plow land-gage. Pressure-gage. Pressure or vacuum gage. Railway tie-plate gage. Rule-gage. Saw-gage. Shoe-machine gage. Siding-gage. Surface-gage. Tympan-gage. Water-gage.							
Gage	H. De Smith	639,671	Dec. 19	2739	629	89	2440
Gage	A. Lynk	630,248	Aug. 1	958	210	88	912
Gage-cutter. Reversible corrugated	W. G. McLellan	633,472	Sept. 19	2396	563	88	2204
Gage-glass	W. A. Downes	629,848	Aug. 1	171	40	88	754
Gage-plates. Adjustable stop for	H. S. Maidhof	638,971	Dec. 12	1446	330	89	2169
Gage-wheels or colters. Means for attaching	J. A. Blackburn	621,741	Mar. 21	2228	501	86	1959
Gaging-machine for spherical bodies	G. H. Hathorn	626,539	June 6	585	135	87	1727
Gaiter or covering for the legs	F. J. Stohwasser and G. B. Winter	632,596	Sept. 5	701	162	88	1845
Gallocyanin-leuco derivative and making same	C. De la Harpe and C. Vaucher	629,666	July 25	3180	------	88	675
Galvanic battery	J. D. Darling	618,042	Jan. 17	2249	501	86	476
Galvanic battery	G. W. Frazier	625,298	May 16	2453	558	87	1213
Galvanic battery	J. von der Poppenburg	628,116	July 4	302	71	88	60
Galvanic battery	C. T. Richmond	617,908	Jan. 17	2020	451	86	432
Galvanic battery	W. Rowbotham	628,855	July 11	1700	397, 398	88	351
Galvanic battery	C. B. Schoenmehl	627,422	Nov. 21	2316	499	89	1424
Galvanic battery	J. Sully	624,574	May 9	1161	260	87	947
Galvanic cells or batteries. Means for utilizing	A. de Castro	633,801	Sept. 26	2997	697	88	2336
Galvanizing apparatus	E. I. Braddock	636,750	Nov. 14	1001	214	89	1151
Galvanometer	A. A. Dittmar	619,679	Feb. 14	1603	366	86	1141
Gambrel	F. Schnell	630,935	Aug. 15	2248	513	88	1198
Game	T. Bickford	637,699	Nov. 21	3194	663	89	1635
Game	J. J. Billingsley	630,647	Aug. 8	1761	396	88	1078
Game	C. H. Bowie	619,663	Feb. 14	1576	359, 360	86	1135
Game	A. O. Browne	630,485	Aug. 8	1462	327	88	1022
Game	C. Büttgenbach	627,046	June 13	1543	337	87	1932
Game	W. K. Clark	630,657	Aug. 8	1776	400	88	1088
Game	H. E. Coombs	621,960	Mar. 28	2654	598	86	2054
Game	H. A. Davis	628,773	July 11	1557	359	88	324
Game	C. K. De Wolf	638,220	Dec. 5	21	6	89	1871
Game	A. Dreher, Jr	622,130	Mar. 28	2961	670	86	2117
Game	J. Edwards	631,110	Aug. 15	2584	584	88	1264
Game	J. B. Flack	626,863	June 13	1218	269	87	1867
Game	W. E. Fox	632,406	Sept. 5	354	81	88	1776
Game	C. E. Gibbs	617,306	Jan. 3	841	196	86	166
Game	W. C. Haigh	626,995	June 13	1457	320	87	1915
Game	H. T. Hendy	634,141	Oct. 3	298	76	89	63
Game	W. Henry	624,029	May 2	142	31	87	730
Game	F. A. Killey	625,845	May 30	3443	781	87	1449
Game	J. C. Meem	631,374	Aug. 22	3057	692	88	1376
Game	W. Oliphant	638,982	Dec. 12	1471	337	89	2174
Game	J. Prendergast	635,898	Oct. 31	3624	835	89	775
Game	F. Van Hennik	623,344	Apr. 18	2126	488	87	444
Game	W. A. Wissemann	629,226	July 18	2367	549	88	496
Game and advertisement-case. Combination	H. R. Wade	637,434	Nov. 21	2338	504	89	1428
Game apparatus	J. H. Boig	626,853	June 13	1183	263	87	1861
Game apparatus	A. H. Bostley	625,999	May 30	3778	860	87	1513
Game apparatus	C. G. Burns	631,004	Aug. 15	2381	542	88	1225
Game apparatus	A. Clark	617,562	Jan. 10	1343	302	86	280
Game apparatus	A. N. Cosner and G. L. Mathews	628,769	July 11	1549	358	88	322
Game apparatus	C. Edwards	617,928	Jan. 17	2049	459	86	440
Game apparatus	F. J. Engel and C. F. Hirth	637,549	Nov. 21	2547	551	89	1468
Game apparatus	W. C. Farnum	639,719	Dec. 26	2833	653	89	2476
Game apparatus	H. Gibbon and N. McKay	636,257	Nov. 7	60	13	89	935
Game apparatus	E. K. Griesemer	620,445	Feb. 28	2990	684	86	1445
Game apparatus	G. Halder	621,659	Mar. 21	2061	461	86	1926
Game apparatus	M. J. Huggins and H. D. Pollak	622,152	Mar. 28	3000	678	86	2125
Game apparatus	H. Kroscher and J. B. Olsen	626,328	June 6	209	51	87	1653
Game apparatus	C. E. Patterson	631,660	Aug. 22	3582	807	88	1481
Game apparatus	H. Schlirf	625,703	May 23	3153	716	87	1375
Game apparatus	E. L. Williams	637,982	Nov. 28	3713	781	89	1759
Game apparatus. Ball	E. Neely and W. M. Bradt	617,297	Jan. 3	828	193	86	163
Game-board	J. A. Crandall	633,077	Sept. 12	1612	375	88	2040
Game-board	J. H. Eickershoff	636,508	Nov. 7	486	108	89	1020
Game-board	J. G. Erickson	623,597	Apr. 25	2585	591	87	553
Game-board	J. P. Harrison	636,663	Nov. 7	787	173	89	1081
Game-board	A. W. Herdler	618,875	Feb. 7	107	23	86	825
Game-board	G. W. Hyatt	623,907	Apr. 25	3163	729	87	664
Game-board	T. A. Jackson	625,557	May 23	2912	661	87	1328
Game-board	M. R. Jewell	622,858	Apr. 11	1214	283	87	249
Game-board	F. Wiegand and F. Dokenwadel	625,623	May 23	3023	688	87	1350
Game-board and apparatus therefor	W. H. Degges	621,799	Mar. 28	2348	526	86	1996
Game-board. Naval	J. E. Doolittle	625,248	May 16	2357	536	87	1195

Alphabetical list of inventions—Continued.

Invention.	Name.	No.	Date.	Monthly volume.		Official Gazette.	
				Spec.	Dr'g.	Vol.	Page.
Game-board or puzzle	W. C. Breitenbach	623,876	Apr. 25	3103	715	87	652
Game-box	H. F. Williams	618,969	Feb. 7	312	67	86	871
Game. Card	C. A. Latham	622,240	Apr. 4	72	17	87	17
Game. Coin-freed	E. G. Matthewson	619,897	Feb. 21	2038	462 463	86	1250
Game-counter	T. G. Howland	618,099	Jan. 24	2375	530	86	515
Game-counter	A. Markgraf and H. Boemermann	617,174	Jan. 3	600	141	86	118
Game-counter	R. J. Wilkens	633,058	Sept. 12	1581	368	88	2033
Game. Croquet	W. G. Lake	620,460	Feb. 28	3012	689	86	1449
Game device	S. J. Boyce	627,472	June 27	2352	518	87	2128
Game. Flag	H. W. Woodhead	635,116	Oct. 17	2118	496	89	454
Game indicator. Social	F. H. D. Cahnbley	624,172	May 2	425	87	87	781
Game. Marble	C. R. Bennett	638,436	Dec. 5	479	98	89	1958
Game. Mechanical and magnetic amusement	H. Cottrell	623,887	Apr. 25	3129	720 721	87	657
Game. Parlor	R. Pike	635,059	Oct. 17	1984	469	89	428
Game played with mechanical figures	R. H. and J. F. Shaw	637,676	Nov. 21	3155	654	89	1628
Game. Solitaire	L. Peck	631,050	Aug. 15	2474	560	88	1243
Game-table	H. W. Requarth	638,991	Dec. 12	1498	344	89	2178
Game. War	J. Lang and R. Berger	618,277	Jan. 24	2708	601	86	576
Games. Field-board for reporting foot-ball	A. A. Irwin	633,847	Sept. 26	3083	716	88	2354
Garbage-box	E. E. Canedy	629,710	July 25	3261	760	88	689
Garbage-cabinet	A. K. Wallen, Sr	623,642	Apr. 25	2658	608	87	566
Garbage-can	C. J. Vaughn	634,677	Oct. 10	1302	307	89	277
Garbage cremator or calciner	F. W. Dennis	631,457	Aug. 22	3209	728 729	88	1406
Garbage-crematory and water-heater. Combined	M. J. Cragin	639,533	Dec. 19	2476	571 572	89	2387
Garbage-depository	H. Brinkmann	623,879	Apr. 25	3108	716	87	653
Garbage drying and burning apparatus	J. J. Kennedy	620,458	Feb. 28	3007	688	86	1448
Garbage-holder	T. Albes	618,314	Jan. 24	2778	616	86	590
Garbage-receptacle	J. Conley	621,601	Mar. 21	1958	438	86	1905
Garbage-receptacle and closet for same	C. S. Robinson	626,567	June 6	628	145	87	1736
Garbage-treating apparatus	J. W. Gamble	626,157	May 30	4109	936 937	87	1572
Garden-tool	D. A. Downing	638,382	Dec. 5	377	79	89	1938
Garden-tool	J. P. Mertes	633,465	Sept. 19	2386	561	88	2202
Garment	I. Goldberger	629,678	July 25	3205	747	88	679
Garment	E. E. Harlan	622,622	Apr. 4	782	182	87	149
Garment	R. E. Lowe	622,010	Mar. 28	2746	620	86	2074
Garment	C. Rutenberg	639,440	Dec. 19	2324	536	89	2355
Garment	J. A. Scriven	625,423	May 23	2677	609	87	1282
Garment	J. Shine	635,403	Oct. 24	2651	612	89	572
Garment-clasp	W. G. Bertram	630,319	Aug. 8	1098	239	88	954
Garment-clasp. Adjustable	E. Flicek	637,331	Nov. 21	2149	463	89	1390
Garment-edge protector	A. M. Weber	633,496	Sept. 19	2435	573	88	2211
Garment-edge protector	A. M. Weber	633,193	Nov. 28	4135	873	89	1843
Garment-facing	A. C. McLaughlin	619,984	Feb. 21	2179	496	86	1277
Garment-facing	A. C. McLaughlin	633,144	Sept. 19	1783	420	88	2084
Garment-fastener	J. D. Conover	623,987	May 2	61	13	87	713
Garment-fastener	W. L. Goldsborough	622,220	Apr. 4	42	10	87	11
Garment-fastener	G. Habicht	627,300	June 20	1999	439	87	2042
Garment-fastener	A. H. Lohse	636,152	Oct. 31	4120	943	89	873
Garment-fastener	V. Palmer	624,966	May 16	1868	419	87	1103
Garment-fastener	C. P. Parker	637,524	Nov. 21	2494	541	89	1458
Garment-fastener	G. T. Reed and J. Wheatfield	637,283	Nov. 21	2041	438	89	1368
Garment-fastening	J. Wheatfield and G. T. Reed	637,310	Nov. 21	2105	454	89	1381
Garment-fastening device	M. L. Perrottet	630,516	Aug. 8	1521	341	88	1032
Garment-fitter	J. T. Melick	633,654	Sept. 26	2747	639	88	2285
Garment-fitter	J. B. Peyry	626,795	June 13	1058	238 239	87	1838
Garment-forming apparatus	I. B. Kleinert	628,434	July 4	900	211	88	173
Garment-hanger	H. F. Bernhard	621,019	Mar. 14	915	199	86	1691
Garment-hanger	E. M. Bigsby and H. E. Cross	631,102	Aug. 15	2571	581	88	1261
Garment-hanger	A. K. Bowman	625,137	May 16	2167	492	87	1158
Garment-hanger	C. C. Copeland	638,959	Dec. 12	1426	326	89	2165
Garment-hanger	J. E. Kennedy	625,265	May 16	2391	542	87	1201
Garment hanger and lock. Combined	G. W. Kunze	622,371	Apr. 4	298	69	87	57
Garment-holder. Coin-lock	R. T. Durham	636,962	Nov. 14	1407	301	89	1231
Garment-holder. Portable	F. C. Beal	626,781	June 13	1042	233	87	1835
Garment-hook	J. M. Guilbert	626,691	June 13	869	197	87	1802
Garment-hook. Safety	A. E. Hewitt	637,114	Nov. 14	1714	369	89	1289
Garment. Nether	J. A. Scriven	637,356	Nov. 21	2196	473	89	1399
Garment-stiffener	A. P. McGraw	637,995	Nov. 28	3742	786	89	1766
Garment-stretcher	J. F. Brock	622,112	Mar. 28	2924	663	86	2108
Garment-stretcher	S. Hillwig	639,728	Dec. 26	2848	656	89	2479
Garment-stretcher	M. L. Spenard	633,050	Sept. 12	1569	365	88	2030
Garment-supporter	D. A. Backus	624,441	May 9	909	204	87	900
Garment-supporter	E. Benton	621,629	Mar. 21	2004	447	86	1914
Garment-supporter	G. H. Blakesley	620,217	Feb. 28	2605	592	86	1371
Garment-supporter	W. L. Braddock	635,648	Oct. 24	3120	718	89	664
Garment-supporter	W. W. Carder	632,641	Sept. 5	778	179	88	1861
Garment-supporter	R. Gorton	633,583	Sept. 26	2627	614	88	2262
Garment-supporter	C. C. Hansen	629,358	July 25	2618	608	88	564
Garment-supporter	G. Kracker	640,002	Dec. 26	3350	767	89	2580
Garment-supporter	M. E. Lawrence	620,938	Mar. 14	745	163	86	1659
Garment-supporter	G. McKnight	629,112	July 18	2180	505	88	463
Garment-supporter	F. C. Raymond	639,287	Dec. 19	2015	465	89	2295
Garment-supporter	M. S. Rogers	632,753	Sept. 12	1035	240	88	1926
Garment-supporter	J. E. Schumacher and W. R. Makins	622,717	Apr. 11	966	224	87	203
Garment-supporter	F. Soady	626,845	June 13	1166	260	87	1857
Garment-supporter	J. G. Wagner	639,875	Dec. 26	3111	715	89	2581
Garment-supporter and hook. Combined	G. W. Neible	625,189	May 16	2251	511	87	1175
Garment-supporting device	M. S. Chapman	638,558	Dec. 5	696	148	89	1993
Gas and air mixer	L. T. Bulley and A. W. Johnson	633,789	Sept. 26	2982	692	88	2333
Gas and oil separator	C. C. and W. E. Brown	629,845	Aug. 1	168	39	88	754

Alphabetical list of inventions—Continued.

Invention.	Name.	No.	Date.	Monthly volume.		Official Gazette.	
				Spec.	Dr'g.	Vol.	Page.
Gas and steam engine. Combination	G. Dahlberg, J. Clicquennoi, and E. Uhlin.	633,338	Sept. 19	2163	507	88	2159
Gas and vapor burning device. Combined	R. Thayer	631,001	Aug. 15	2375	541	88	1223
Gas apparatus	E. Gobbe	630,683	Aug. 8	1820	410	88	1089
Gas apparatus	J. M. Hadden	628,000	July 4	81	16	88	17
Gas apparatus	T. G. Turner	637,683	Nov. 21	3166	657	89	1630
Gas apparatus. Acetylene-	E. Bournonville	617,632	Jan. 10	1460	333	86	304
Gas apparatus. Acetylene-	W. A. Coulson	625,832	May 30	3422	777	87	1445
Gas apparatus. Acetylene-	J. J. Faulkner	624,468	May 9	961	214	87	909
Gas apparatus. Acetylene-	J. J. Faulkner	624,469	May 9	964	214	87	909
Gas apparatus. Acetylene-	A. H. Francfort	620,647	Mar. 7	196	40	86	1540
Gas apparatus. Acetylene-	J. N. Goldbacher and E. Bournonville.	627,499	June 27	2395	526	87	2136
Gas apparatus. Acetylene-	G. Harden	634,817	Oct. 10	1544	363, 364	89	323
Gas apparatus. Acetylene-	A. A. Strom	628,641	July 11	1327	309, 310	88	276
Gas apparatus. Acetylene-	A. A. Strom	629,971	Aug. 1	456	98, 99	88	813
Gas apparatus. Acetylene-	J. W. Tallmadge	639,188	Dec. 12	1839	423	89	2249
Gas apparatus. Acetylene-	M. H. Vinkle	638,777	Dec. 12	1109	248	89	2103
Gas. Apparatus for collecting carbonic-acid	H. S. Elworthy	619,398	Feb. 14	1112	251	86	1047
Gas. Apparatus for collecting carbonic-acid	J. F. Wittemann	639,642	Dec. 19	2680	614, 615	89	2429
Gas. Apparatus for manufacturing	L. S. Davis	637,856	Nov. 28	3475	726	89	1712
Gas. Apparatus for manufacturing illuminating-	L. J. Hirt	633,317	Sept. 19	2128	498, 499	88	2152
Gas. Apparatus for manufacturing oil or water	J. F. Moynihan	625,588	May 23	2958	672	87	1337
Gas. Apparatus for producing acetylene	O. Payan	626,032	May 30	3853	874	87	1526
Gas-bracket	E. A. Burns	620,692	Mar. 7	285	57	86	1557
Gas-burner	W. A. Armington	627,087	June 20	1621	354	87	1965
Gas-burner	J. F. Barker	628,063	July 4	193	43	88	39
Gas-burner	J. F. Barker	628,064	July 4	193	43	88	39
Gas-burner	J. F. Barker	628,065	July 4	194	44	88	39
Gas-burner	J. F. Barker	637,441	Nov. 21	2347	507	89	1430
Gas-burner	W. E. Booraem	633,259	Sept. 19	2008	471	88	2129
Gas-burner	A. Buerkle	637,849	Nov. 28	3465	723, 724	89	1710
Gas-burner	A. Buerkle	637,850	Nov. 28	3466	724	89	1710
Gas-burner	F. A. Cortis	629,430	July 25	2746	638	88	591
Gas-burner	R. M. Crossland	623,237	Apr. 18	1923	442	87	403
Gas-burner	P. B. Curran	638,044	Nov. 28	3839	807	89	1784
Gas-burner	E. J. Daschbach	632,341	Sept. 5	239	57	88	1755
Gas-burner	W. Friebertshauser	622,187	Mar. 28	3067	695	86	2138
Gas-burner	H. D. Gue	628,708	July 11	1444	335	88	300
Gas-burner	A. Heller	621,248	Mar. 14	1323	294	86	1771
Gas-burner	W. C. Homan	624,494	May 9	1012	227	87	917
Gas-burner	B. F. Jackson	622,482	Apr. 4	531	125	87	100
Gas-burner	J. Keelan	633,460	Sept. 19	2379	560	88	2201
Gas-burner	O. Kern	633,518	Sept. 19	2470	581	88	2219
Gas-burner	J. G. A. Kitchen	620,147	Feb. 28	2480	563	86	1349
Gas-burner	L. S. Lawson	626,387	June 6	333	76	87	1678
Gas-burner	T. H. Mulch and O. Wiederhold	621,840	Mar. 28	2418	540	86	2010
Gas-burner	C. H. Resor	639,185	Dec. 12	1806	418	89	2239
Gas-burner	R. Schlumberger	619,623	Feb. 14	1502	342	86	1120
Gas-burner	E. E. Slick	624,391	May 2	815	183	87	857
Gas-burner	C. S. Steward	636,080	Oct. 31	4003	915	89	848
Gas-burner	M. Strakosch	628,561	July 11	1157	271	88	243
Gas-burner	J. F. Williams	618,758	Jan. 31	3598	803	86	763
Gas-burner	M. P. Worley	639,485	Dec. 19	2403	553	89	2372
Gas burner. Acetylene-	G. and J. W. Bray	629,061	July 18	2071	483	88	441
Gas burner. Acetylene-	L. M. Bullier	624,169	May 2	422	87	87	780
Gas burner. Acetylene-	E. J. Dolan	630,493	Aug. 8	1475	330	88	1024
Gas burner. Acetylene-	F. C. Faxon	635,532	Oct. 24	2913	665	89	624
Gas burner. Acetylene-	F. J. Patten	623,359	Apr. 25	2512	576	87	540
Gas burner. Acetylene-	A. H. J. Schülke	619,000	Feb. 7	398	83	86	887
Gas burner. Acetylene-	E. H. J. Schülke	619,843	Feb. 21	1941	441	86	1233
Gas burner. Acetylene-	H. E. Shaffer	617,942	Jan. 17	2067	464	86	443
Gas burner. Acetylene-	H. E. Shaffer	618,239	Jan. 24	2649	585	86	565
Gas burner. Acetylene-	H. E. Shaffer	622,867	Apr. 11	1230	286	87	252
Gas burner. Acetylene-	H. E. Shaffer	623,043	Apr. 11	1542	356	87	315
Gas burner. Acetylene-	H. E. Shaffer	634,838	Oct. 10	1585	372	89	332
Gas burner. Acetylene-	D. M. Steward	629,623	July 25	3117	725	88	662
Gas-burner. Automatic	J. C. Phelps	631,811	Aug. 29	3874	864	88	1546
Gas-burner. Central-station-controlled automatically lighted and extinguished	H. Hoare and M. J. Kennedy	635,933	Oct. 31	3679	849	89	784
Gas-burner. Electric hand-lighting	H. C. Thomson	618,920	Feb. 7	191	41	86	842
Gas-burner. Electric-lighting	J. M. Anck	621,778	Mar. 28	2307	519	86	1989
Gas-burner. Electric-lighting	R. C. Nourse	636,056	Oct. 31	3915	898	89	832
Gas-burner. Electric-lighting	R. C. Nourse	636,057	Oct. 31	3917	899	89	832
Gas-burner for hydrocarbon liquids. Incandescent	P. J. Fitzgerald	621,333	Mar. 21	1487	329	86	1816
Gas burner. Fuel-	J. C. Kurtz	621,968	Mar. 28	2677	602	86	2059
Gas burner. Fuel-	J. A. and J. T. Wessalosky	627,787	June 27	2927	641	87	2242
Gas-burner heating attachment	L. G. McKam	626,243	June 6	47	11	87	1624
Gas burner. Hydrocarbon-	V. W. Bumgarner	623,650	Apr. 25	2673	613	87	569
Gas burner. Hydrocarbon-	R. D. Cody	632,894	Sept. 12	1316	301	88	1981
Gas-burner igniters. Manufacture of	M. Spier	620,511	Feb. 28	3091	707	86	1465
Gas-burner igniting device	A. L. Bogart	623,871	Apr. 25	3094	713	87	650
Gas-burner. Incandescent	A. Bachmeyer	629,285	July 18	2465	573	88	514
Gas-burner. Incandescent	A. Bandsept	621,783	Mar. 28	2316	520	86	1991
Gas-burner. Incandescent	B. Barg	634,863	Oct. 17	1639	383	89	359
Gas-burner. Incandescent	E. Bauweraerts	628,155	July 4	372	88	88	75
Gas-burner. Incandescent	W. R. Clay	617,459	Jan. 10	1147	261, 262	86	241
Gas-burner. Incandescent	J. B. De Léry	621,927	Mar. 28	2589	583	86	2042
Gas-burner. Incandescent	J. B. De Léry	633,346	Sept. 19	2178	511	88	2162
Gas-burner. Incandescent	A. Lecomte and I. Loeser	638,344	Dec. 5	298	61	89	1923

Alphabetical list of inventions—Continued.

Invention.	Name.	No.	Date.	Monthly volume. Spec.	Monthly volume. Drg.	Official Gazette. Vol.	Official Gazette. Page.
Gas-burner. Incandescent	T. H. Mulch and O. Wiederhold	638,741	Dec. 12	1054	236	89	2091
Gas-burner. Incandescent	A. S. Newby	640,015	Dec. 26	3365	770	89	2583
Gas-burner. Incandescent	C. S. Pinkham	617,044	Jan. 3	366	88	86	70
Gas-burner. Incandescent	L. Stiassny	638,652	Dec. 5	869	189	89	2033
Gas-burner incandescing mantle	C. F. Armington	626,958	June 13	1391	307	87	1902
Gas-burner regulator	F. O. Robbins	626,099	May 30	3991	910	87	1549
Gas-burner. Safety	F. Pairan	624,241	May 2	551	117	87	804
Gas-burner. Self-igniting	A. Rammoser	633,273	Sept. 19	2029	477	88	2133
Gas-burner. Self-lighting	J. A. Williams	627,630	June 27	2663	584	87	2190
Gas-burner. Self-lighting	J. A. Williams	627,631	June 27	2664	584	87	2190
Gas-burner. Self-lighting	J. A. Williams	627,632	June 27	2665	585	87	2190
Gas-burner self-lighting device	E. Wiese	633,405	Sept. 19	2292	539	88	2183
Gas-burner support. Incandescent	W. R. Clay and B. Walmsley	617,460	Jan. 10	1149	262	86	242
Gas-burner tip	D. M. Steward	635,818	Oct. 31	3456	795	89	742
Gas-burners at a distance. Electrical apparatus for freeing, lighting, or extinguishing	P. L. Guyenot	617,958	Jan. 17	2095	470	86	449
Gas-burners. Electric hand-fuse for	F. Hoffmann and W. Ohlsen	625,264	May 16	2390	542	87	1201
Gas-burners. Electric lighting device for incandescent	S. M. Meyer	631,748	Aug. 22	3750	841, 842	88	1511
Gas-burners. Igniting device for	C. L. Burger	631,267	Aug. 15	2868	647	88	1321
Gas-burners. Lighting device for	E. S. Ullmann	620,516	Feb. 28	3099	709	86	1467
Gas-burners. Manufacture of mantles or incandescing elements for	O. B. Heinze	632,349	Sept. 5	252	------	88	1757
Gas-burners, &c. Means for lighting incandescent or other	P. Bardot	621,784	Mar. 28	2317	521	86	1991
Gas-burners. Metallic mantle for	E. Verbeke	625,993	May 30	3727	------	87	1504
Gas-burning heater	J. McCartney	624,071	May 2	228	48	87	745
Gas-compressing-machine valve mechanism	L. G. Kunzer	620,936	Mar. 14	740	163	86	1658
Gas-concentrator	R. P. Greer	617,829	Jan. 17	1860	416	86	402
Gas cut-off. Automatic	V. E. Campbell	627,097	June 20	1637	358, 359	87	1969
Gas-distributing apparatus. Automatic pressure-regulator for	A. Lecomte and I. Loeser	627,619	June 27	2638	580	87	2185
Gas-engine	E. E. Allyne and R. G. Anderson	622,876	Apr. 11	1258	291	87	258
Gas-engine	C. R. Alsop	618,972	Feb. 7	316	68, 69	86	871
Gas-engine	S. A. Ayres	632,888	Sept. 12	1305	300	88	1979
Gas-engine	E. and W. F. Bauroth	617,388	Jan. 10	1019	232, 233	86	217
Gas-engine	C. P. Blake	631,003	Aug. 15	2378	542	88	1224
Gas-engine	C. W. Bogart	628,518	July 11	1072	250, 251	88	226
Gas-engine	J. O. Brown	635,294	Oct. 24	2431	567	89	530
Gas-engine	F. Burger	632,913	Sept. 12	1346	309, 310	88	1986
Gas-engine	W. H. and J. Butterworth	624,750	May 9	1460	330	87	1007
Gas-engine	O. F. Good	634,686	Oct. 10	1318	312	89	280
Gas-engine	E. W. Graef	622,891	Apr. 11	1282	296	87	262
Gas-engine	J. D. Hay and B. M. Bullock	632,814	Sept. 12	1159	265, 266	88	1952
Gas-engine	L. J. Hirt	620,926	Mar. 14	716	158, 159	86	1654
Gas-engine	L. J. Hirt	629,904	Aug. 1	293	66, 67	88	778
Gas-engine	L. S. Kirker	627,338	June 20	2073	457, 458	87	2057
Gas-engine	H. A. Knox	627,857	June 27	3053	668	87	2266
Gas-engine	A. Lee	634,529	Oct. 10	1043	249	89	225
Gas-engine	P. Murray	619,776	Feb. 21	1802	413, 414, 415	86	1204
Gas-engine	A. H. Neale	639,683	Dec. 19	2765	638	89	2444
Gas-engine	R., Sr., and R. Nuttall, Jr	631,224	Aug. 15	2770	627	88	1302
Gas-engine	R., Sr., and R. Nuttall, Jr	640,018	Dec. 26	3370	771	89	2584
Gas-engine	G. Palm	618,435	Jan. 31	3030	670	86	653
Gas-engine	C. Quast	624,975	May 16	1883	423	87	1106
Gas-engine	E. Rappe	637,975	Nov. 28	3696	777, 778, 779	89	1756
Gas-engine	J. W. Raymond	636,451	Nov. 7	369	83	89	995
Gas-engine	C. C. Riotte	616,974	Jan. 3	203	46	86	40
Gas-engine	W. S. Sharpneck	628,122	July 4	309	73	88	62
Gas-engine	W. S. Sharpneck	628,123	July 4	311	73, 74	88	62
Gas-engine	W. S. Sharpneck	628,124	July 4	312	74	88	63
Gas-engine	W. S. Sharpneck	628,125	July 4	314	74, 75	88	63
Gas-engine	H. Smith	632,762	Sept. 12	1056	245	88	1931
Gas-engine	G. S. Strong	637,298	Nov. 21	2079	446, 447, 448	89	1375
Gas-engine	T. J. Sturtevant	634,509	Oct. 10	1007	240, 241	89	219
Gas-engine	A. A. Vansickle	620,080	Feb. 21	2350	532, 533	86	1309
Gas-engine	G. A. Whitcomb	634,654	Oct. 10	1260	298, 299	89	268
Gas-engine	J. Williams, Jr	636,478	Nov. 7	426	94	89	1007
Gas-engine	E. E. Wolf	618,157	Jan. 24	2499	555, 556	86	538
Gas-engine and governing device therefor	C. Hoerl	633,380	Sept. 19	2243	528, 529	88	2174
Gas-engine and means for governing same	E. J. Fithian	626,155	May 30	4104	935, 936	87	1571
Gas engine. Explosive	G. Hirt and G. Horn	630,083	Aug. 1	679	146	88	857
Gas engine. Explosive	H. Smith	632,763	Sept. 12	1057	245	88	1931
Gas. Extracting cyanogen from coal	J. Bueb	625,964	May 30	3668	832	87	1492
Gas-fixture	C. H. Hatfield	622,224	Apr. 4	48	11	87	12
Gas-fixture safety connection	J. J. McDermott and J. E. Bennett	634,537	Oct. 10	1062	254	89	230
Gas-fixtures. Electric lighting attachment for	C. D. Wright	637,058	Nov. 14	1590	343	89	1268

Alphabetical list of inventions—Continued.

Invention.	Name.	No.	Date	Monthly volume. Spec.	Monthly volume. Dr'g.	Official Gazette. Vol.	Official Gazette. Page.
Gas-furnace	C. W. Rice	620,052	Feb. 21	2308	524	86	1301
Gas-furnace	J. C. Swindell	629,478	July 25	2347	661, 662	88	610
Gas. Generating acetylene	E. J. Dolan	638,175	Nov. 28	4097	864	89	1833
Gas. Generating acetylene	E. J. Dolan	638,448	Dec. 5	502	101	89	1963
Gas generating and burning device. Acetylene-	A. Browett	627,386	June 20	2189	481	87	2079
Gas-generating apparatus. Acetylene-	L. S. Buffington	617,896	Jan. 17	1993	445	86	428
Gas-generating apparatus. Acetylene-	E. Chesnay and L. Pillion	617,436	Jan. 10	1113	254, 255	86	235
Gas-generating apparatus. Acetylene-	J. Condon	617,563	Jan. 10	1344	302	86	281
Gas-generating apparatus. Acetylene-	H. Daut	630,597	Aug. 8	1671	375	88	1062
Gas-generating apparatus. Acetylene-	E. N. Dickerson	623,994	May 2	76	17	87	716
Gas-generating apparatus. Acetylene-	F. Ferracciu	631,566	Aug. 22	3428	774	88	1450
Gas-generating apparatus. Acetylene-	E. P. Gardner	621,648	Mar. 21	2045	456	86	1923
Gas-generating apparatus. Acetylene-	I. L. Harris	637,252	Nov. 21	1989	426	89	1358
Gas-generating apparatus. Acetylene-	E. Henriquez	632,940	Sept. 12	1387	320	88	1995
Gas-generating apparatus. Acetylene-	C. D. Howell	635,727	Oct. 24	3272	756	89	692
Gas-generating apparatus. Acetylene-	C. M. Kemp	634,945	Oct. 17	1765	419, 420	89	383
Gas-generating apparatus. Acetylene-	L. E. Lee	619,046	Feb. 7	472	98	86	901
Gas-generating apparatus. Acetylene-	E. A. Meyer	624,361	May 2	756	170	87	845
Gas-generating apparatus. Acetylene-	G. Nowak	636,835	Nov. 14	1150	247, 248	89	1181
Gas-generating apparatus. Acetylene-	L. de Ravel	619,024	Feb. 7	436	91	86	894
Gas-generating gas-fixture	J. J. Snyder	628,365	July 4	779	181	88	150
Gas-generating heater. Hydrocarbon-	C. Rutkoskie	632,881	Sept. 12	1294	297, 298	88	1976
Gas-generating machine. Acetylene-	F. E. Porter	623,425	Apr. 18	2268	519, 520	87	474
Gas-generating-machine pump	V. J. A. Rey	637,417	Nov. 21	2308	498	89	1423
Gas-generator	R. Böcking	620,409	Feb. 28	2928	670	86	1433
Gas-generator	T. H. J. Leckband	632,817	Sept. 12	1165	267	88	1954
Gas-generator	G. Wanderpepen, A. Van Bercke-laer, and C. Byl.	624,275	May 2	605	130	87	813
Gas-generator	M. L. and W. D. Warner	630,955	Aug. 15	2293	522	88	1207
Gas-generator	P. A. N. Winand	618,549	Jan. 31	3230	717	86	690
Gas-generator	P. A. N. Winand	622,744	Apr. 11	1008	235	87	211
Gas generator. Acetylene-	H. E. Ahrens	631,391	Aug. 22	3093	700	88	1383
Gas generator. Acetylene-	O. Archambault	626,477	June 6	480	112	87	1706
Gas generator. Acetylene-	F. W. Arney	633,258	Sept. 19	2006	471	88	2129
Gas generator. Acetylene-	G. Baldwin and C. Crastin	626,586	June 6	658	252, 153	87	1742
Gas generator. Acetylene-	T. O. Bateman	629,485	July 25	2862	665	88	612
Gas generator. Acetylene-	W. J. Baulieu	629,738	July 25	3314	774	88	700
Gas generator. Acetylene-	C. W. Beck	617,389	Jan. 10	1022	233	86	218
Gas generator. Acetylene-	C. W. Beck	627,795	June 27	2946	645	87	2246
Gas generator. Acetylene-	C. W. Beck	627,796	June 27	2949	645	87	2246
Gas generator. Acetylene-	G. S. Bennett	637,546	Nov. 21	2542	550, 551	89	1467
Gas generator. Acetylene-	H. Berger	625,735	May 30	3222	732	87	1407
Gas generator. Acetylene-	A. and S. M. Beveridge and H. K. Spence.	624,159	May 2	410	83, 84	87	778
Gas generator. Acetylene-	O. Boettcher	634,869	Oct. 17	1650	388	89	361
Gas generator. Acetylene-	J. D. Briggs and C. E. Elliott	626,824	June 13	1115	250	87	1847
Gas generator. Acetylene-	T. A. Bryan	626,363	June 6	286	65	87	1670
Gas generator. Acetylene-	H. Bryant	633,545	Sept. 19	2519	592	88	2227
Gas generator. Acetylene-	P. Bucher	639,516	Dec. 19	2446	565	89	2381
Gas generator. Acetylene-	F. E. Bundy	616,889	Jan. 3	47	9	86	11
Gas generator. Acetylene-	C. M. Camp	625,827	May 30	3412	775	87	1443
Gas generator. Acetylene-	J. Carlson	623,132	Apr. 18	1731	400	87	365
Gas generator. Acetylene-	U. Clairefond	638,797	Dec. 12	1146	256	89	2110
Gas generator. Acetylene-	W. M. Clark	632,511	Sept. 5	543	126	88	1814
Gas generator. Acetylene-	J. H. and G. H. Cliff, and T. D. Wardlaw.	636,490	Nov. 7	446	99	89	1011
Gas generator. Acetylene-	G. W. Coleman	622,447	Apr. 4	443	103	87	82
Gas generator. Acetylene-	M. D. Compton	633,684	Sept. 26	2809	654	88	2297
Gas generator. Acetylene-	F. M. Comstock	632,515	Sept. 5	558	128, 129	88	1818
Gas generator. Acetylene-	F. M. Comstock	638,444	Dec. 5	491	100	89	1961
Gas generator. Acetylene-	E. H. Conibear and S. W. Ray	622,839	Apr. 11	1183	275, 276	87	243
Gas generator. Acetylene-	W. A. Coulson	625,833	May 30	3423	777	87	1445
Gas generator. Acetylene-	G. Dawson	630,975	Aug. 15	2340	533	88	1216
Gas generator. Acetylene-	F. Demaria and C. Ranzini	631,156	Aug. 15	2661	602	88	1279
Gas generator. Acetylene-	J. A. Deuther	619,146	Feb. 7	664	143	86	941
Gas generator. Acetylene-	G. F. Dillon	634,722	Oct. 10	1390	327	89	294
Gas generator. Acetylene-	D. M. Dorman	634,401	Oct. 3	816	197	89	163
Gas generator. Acetylene-	F. M. Draper	627,178	June 20	1776	389, 390	87	1997
Gas generator. Acetylene-	R. F. Dull	620,757	Mar. 7	415	85	86	1582
Gas generator. Acetylene-	R. F. Dull	627,989	July 4	56	11	88	13
Gas generator. Acetylene-	J. H. and P. M. Dysart	622,943	Apr. 11	1367	314	87	279
Gas generator. Acetylene-	W. H. Eldredge	631,207	Aug. 15	2745	621, 622	88	1297
Gas generator. Acetylene-	H. Eldridge and S. Blum	628,929	July 18	1845	429	88	396
Gas generator. Acetylene-	O. Ernst and A. Philips	618,455	Jan. 31	3056	676	86	657
Gas generator. Acetylene-	J. J. Faulkner	624,466	May 9	956	213	87	908
Gas generator. Acetylene-	J. J. Faulkner	624,467	May 9	959	213	87	908
Gas-generator. Acetylene-	F. A. Feldkamp	632,679	Sept. 5	884	205, 206, 207	88	1884
Gas generator. Acetylene-	J. S. Ferguson	625,388	May 23	2614	595	87	1270
Gas generator. Acetylene-	C. S. Forbes	622,616	Apr. 4	772	179	87	147
Gas generator. Acetylene-	J. D. Forsyth	624,203	May 2	476	102	87	791
Gas generator. Acetylene-	E. P. Gardner	621,647	Mar. 21	2043	456	86	1922
Gas generator. Acetylene-	G. P. Gaston	637,727	Nov. 21	3237	674	89	1644

Alphabetical list of inventions—Continued.

Invention.	Name.	No.	Date.	Monthly volume.		Official Gazette.	
				Spec.	Dr'g.	Vol.	Page.
Gas generator. Acetylene	J. L. Gebhart	617,246	Jan. 3	726	168	86	142
Gas generator. Acetylene	D. Genese	638,328	Dec. 5	263	55	89	1916
Gas generator. Acetylene	W. E. Gibbs	621,065	Mar. 14	999	217	86	1706
Gas generator. Acetylene	W. M. Gilbert	625,949	May 30	3632	826	87	1485
Gas generator. Acetylene	J. N. Goldbacher and E. Bournonville.	627,498	June 27	2390	525, 526	87	2135
Gas generator. Acetylene	J. J. Graf and C. Keck	624,011	May 2	105	22	87	723
Gas generator. Acetylene	J. Grand	626,608	June 6	693	161	87	1749
Gas generator. Acetylene	H. Griffith	636,221	Oct. 31	4249	976, 977	89	898
Gas generator. Acetylene	K. G. Gustafson	627,747	June 27	2863	626	87	2230
Gas generator. Acetylene	F. J. Gustine	621,564	Mar. 21	1902	425	86	1894
Gas generator. Acetylene	O. H. Hampton	625,260	May 16	2382	540	87	1199
Gas generator. Acetylene	S. Hanford	628,198	July 4	443	105, 106	88	89
Gas generator. Acetylene	J. M. Hanson and W. Stewart	632,488	Sept. 5	507	115, 116	88	1807
Gas generator. Acetylene	J. Harris, H. W. Gazell, and L. H. Vogel.	628,462	July 11	955	223	88	208
Gas generator. Acetylene	T. Henderson and W. A. Stapp	629,855	Aug. 1	184	43	88	757
Gas generator. Acetylene	G. A. Hervieu	635,544	Oct. 24	2938	671	89	628
Gas generator. Acetylene	W. F. Hines	636,991	Nov. 14	1470	317, 318	89	1244
Gas generator. Acetylene	W. J. Holden and A. F. Fielder	639,046	Dec. 12	1571	359, 360	89	2192
Gas generator. Acetylene	A. Holland	633,592	Sept. 26	2642	617	88	2265
Gas generator. Acetylene	J. B. Holmes	629,720	July 25	3284	766	88	694
Gas generator. Acetylene	R. W. Holt and H. A. Rose	638,459	Dec. 5	527	108	89	1968
Gas generator. Acetylcne	J. M. Hull	633,844	Sept. 26	3078	715	88	2353
Gas generator. Acetylene	L. D. Jennings	626,384	June 6	327	75,76	87	1676
Gas generator. Acetylene	A. Kay	623,477	Apr. 18	2355	541, 542	87	492
Gas generator. Acetylene	H. Keller	628,201	July 4	454	109	88	90
Gas generator. Acetylene	J. T. Kelso	623,910	Apr. 25	3167	730	87	664
Gas generator. Acetylene	J. G. Kerr	630,834	Aug. 8	2070	467	88	1141
Gas generator. Acetylene	U. Kesselring	626,237	June 6	39	9	87	1622
Gas generator. Acetylene	J. W. Kiniry	622,492	Apr. 4	549	128, 129	87	104
Gas generator. Acetylene	K. Küppers and H. Schroeder	635,327	Oct. 24	2490	578	89	540
Gas generator. Acetylene	P. Lacroix	639,925	Dec. 26	3206	736	89	2551
Gas generator. Acetylene	E. E. and H. W. Laun	627,303	June 20	2002	440	87	2043
Gas generator. Acetylene	G. L. Lavery	637,513	Nov. 21	2473	537	89	1454
Gas generator. Acetylene	F. Leonard	621,757	Mar. 21	2264	510, 511	86	1966
Gas generator. Acetylene	D. N. Long	619,970	Feb. 21	2158	490	86	1273
Gas generator. Acetylene	W. T. Love	640,142	Dec. 26	3596	827	89	2631
Gas generator. Acetylene	C. G. Luis	621,262	Mar. 14	1348	299	86	1775
Gas generator. Acetylene	P. P. H. Macé and L. L. H. Gérard	630,722	Aug. 8	1876	424	88	1101
Gas generator. Acetylene	E. S. Martindale	637,633	Nov. 21	3066	634, 635	89	1611
Gas generator. Acetylene	G. F. Matthews	631,527	Aug. 22	3339	759	88	1432
Gas generator. Acetylene	L. O. McLane	626,437	June 6	412	98	87	1693
Gas generator. Acetylene	F. O. McQueen	619,833	Feb. 21	1911	436	86	1226
Gas generator. Acetylene	F. O. McQueen	639,929	Dec. 26	3212	736	89	2552
Gas generator. Acetylene	F. A. Miller	633,098	Sept. 12	1680	395, 396	88	2053
Gas generator. Acetylene	A. Molet	632,193	Aug. 29	4582	1032	88	1684
Gas generator. Acetylene	H. T. Morrison	630,066	Aug. 1	651	141	88	852
Gas generator. Acetylene	O. J. Moussette	624,846	May 9	1656	374	87	1045
Gas generator. Acetylene	O. J. Moussette	636,683	Nov. 7	818	181	89	1088
Gas generator. Acetylene	W. F. Mudge	633,027	Sept. 12	1528	355, 356	88	2023
Gas generator. Acetylene	J. H. D. Nordeman	631,356	Aug. 22	3576	806	88	1480
Gas generator. Acetylene	G. F. Owen	618,801	Jan. 31	3674	823	86	778
Gas generator. Acetylene	R. D. Parks	621,616	Mar. 21	1983	442	86	1910
Gas generator. Acetylene	F. C. Pearre	635,507	Oct. 24	2872	655	89	615
Gas generator. Acetylene	A. Post and W. O'Brien	631,476	Aug. 22	3245	736	88	1413
Gas generator. Acetylene	J. E. A. V. Pourcelle	627,139	June 20	1707	375	87	1983
Gas generator. Acetylene	A. Powell	631,666	Aug. 22	3589	809	88	1482
Gas generator. Acetylene	J. W. Powers	625,697	May 23	3136	713	87	1371
Gas generator. Acetylene	F. W. Preussel	639,933	Dec. 26	3217	738	89	2553
Gas generator. Acetylene	M. L. Proctor	620,179	Feb. 28	2522	573	86	1357
Gas generator. Acetylene	P. Purviance	623,624	Apr. 25	2627	599	87	560
Gas generator. Acetylene	J. Reibel	618,730	Jan. 31	3548	792, 793	86	753
Gas generator. Acetylene	F. Rhind	623,829	Apr. 25	3015	692	87	636
Gas generator. Acetylene	F. Rhind	635,351	Oct. 24	2528	588	89	547
Gas generator. Acetylene	A. Rieffel	632,587	Sept. 5	687	159	88	1842
Gas generator. Acetylene	W. E. Roles	638,066	Nov. 28	3870	814	89	1790
Gas generator. Acetylene	L. F. Rose	633,043	Sept. 12	1560	363	88	2029
Gas generator. Acetylene	J. K. Rush	633,045	Sept. 12	1563	363, 364	88	2029
Gas generator. Acetylene	I. O. Russell	635,599	Oct. 24	3032	696	89	645
Gas generator. Acetylene	J. Ruthven	637,998	Nov. 28	3746	787, 788	89	1766
Gas generator. Acetylene	A. V. Sanford	637,164	Nov. 14	1807	388	89	1307
Gas generator. Acetylene	A. V. Sanford	637,165	Nov. 14	1811	389	89	1308
Gas generator. Acetylene	T. E. Scantlin	617,775	Jan. 17	1740	390, 391	86	376
Gas generator. Acetylene	H. P. Schaefer	638,599	Dec. 5	774	168	89	2014
Gas generator. Acetylene	J. M. Schofield	629,701	July 25	3243	755	88	686
Gas generator. Acetylene	J. H. Schülke	622,276	Apr. 4	136	31	87	29
Gas generator. Acetylene	A. F. Schulz	632,757	Sept. 12	1040	242	88	1927
Gas generator. Acetylene	T. Seevers	636,006	Oct. 31	3825	879, 880	89	814
Gas generator. Acetylene	H. C. Sergeant	619,509	Feb. 14	1310	301	86	1086

Alphabetical list of inventions—Continued.

Invention.	Name.	No.	Date.	Monthly volume.		Official Gazette.	
				Spec.	Dr'g.	Vol.	Page.
Gas generator. Acetylene-	H. W. Shaw	636,857	Nov. 14	1182	256	89	1188
Gas generator. Acetylene-	J. V. Sherrin	622,549	Apr. 4	662	155	87	126
Gas generator. Acetylene-	E. F. Smith	618,015	Jan. 17	2190	489	86	466
Gas generator. Acetylene-	G. F. Speer	625,426	May 23	2681	611	87	1282
Gas generator. Acetylene-	M. E. Sprague	618,299	Jan. 24	2751	610	86	585
Gas generator. Acetylene-	C. W. Stewart and C. A. King	638,854	Dec. 12	1243	280	89	2128
Gas generator. Acetylene-	J. L. Styron	617,262	Jan. 3	758	177	86	150
Gas generator. Acetylene-	O. P. Swem	636,586	Nov. 7	628	138	89	1049
Gas generator. Acetylene-	W. W. Swett	638,483	Dec. 5	570	118	89	1976
Gas generator. Acetylene-	S. J. Taylor	635,029	Oct. 17	1920	457	89	415
Gas generator. Acetylene-	J. F. Van Dervort	620,064	Feb. 21	2324	528	86	1304
Gas generator. Acetylene-	H. J. Volz	629,481	July 25	2855	664	88	611
Gas generator. Acetylene-	C. E. Wake	634,075	Oct. 3	155	40	89	35
Gas generator. Acetylene-	L. B. Walters, W. H. Davis, and A. L. Hawkins.	640,054	Dec. 26	3441	791	89	2599
Gas generator. Acetylene-	S. P. Watt	638,897	Dec. 12	1318	300	89	2143
Gas generator. Acetylene-	W. G. Webb and J. V. Price	621,003	Mar. 14	883	191, 192	86	1685
Gas generator. Acetylene-	P. D. Wescott	634,434	Oct. 3	875	212	89	176
Gas generator. Acetylene-	J. A. Wetmore	636,370	Nov. 7	241	53	89	969
Gas generator. Acetylene-	R. A. Wheelock, C. F. Walker, and H. C. Diers.	629,282	July 18	2460	572	88	513
Gas generator. Acetylene-	C. L. Wilkins	636,601	Nov. 7	650	143	89	1054
Gas generator. Acetylene-	B. F. Williams	620,394	Feb. 28	2906	666	86	1430
Gas generator. Acetylene-	E. L. Williams	618,593	Jan. 31	3306	735	86	705
Gas generator. Acetylene-	E. L. Williams	618,596	Jan. 31	3310	736	86	706
Gas generator. Acetylene-	T. F. Williams	619,814	Feb. 21	1884	430	86	1220
Gas generator. Acetylene-	R. H. Witz	640,065	Dec. 26	3465	795	89	2603
Gas generator. Acetylene-	F. S. Wood	635,086	Oct. 17	2044	482	89	441
Gas generator. Acetylene-	W. W. Wythe	640,066	Dec. 26	3466	795	89	2603
Gas generator. Acetylene-	C. L. Zimmerman	634,319	Oct. 3	663	161	89	134
Gas generator and lamp. Acetylene-	C. K. Harding	626,324	June 6	202	49, 50	87	1651
Gas generator for stoves. Oil-	L. Yancey	637,953	Nov. 28	3660	768	89	1749
Gas generator. Hydrogen-	I. R. B. Arnold	626,200	May 30	4192	952, 953	87	1588
Gas-generator switching device	H. Strache	633,168	Sept. 19	1827	430	88	2093
Gas generators. Carbid-container for acetylene-	C. W. Iden	637,934	Nov. 28	3631	761	89	1744
Gas generators. Feed-water regulator for acetylene-	I. C. Curtis	617,320	Jan. 10	872	205	86	189
Gas generators. Feed-water regulator for acetylene-	I. C. Curtis	618,061	Jan. 24	2302	514	86	502
Gas-globes. Spring-holder for	D. O. Sayre	621,948	Mar. 28	2624	591	86	2049
Gas-heater	H. Adler	633,061	Sept. 12	1584	369	88	2034
Gas-heater	H. C. Steinhoff	622,726	Apr. 11	982	228	87	206
Gas-holder	J. M. Erts and J. Miller	637,101	Nov. 14	1670	362	89	1282
Gas-holder	H. C. Sergeant	619,510	Feb. 14	1311	301	86	1086
Gas-holder	A. A. Strom	628,868	July 11	1723	402	88	356
Gas-holder safety device	A. A. Strom	636,583	Nov. 7	624	137	89	1048
Gas-igniter. Automatic	J. Perl	627,654	June 27	2699	592	87	2197
Gas-ignition apparatus	A. Martini and F. Deimel	619,200	Feb. 7	768	166	86	962
Gas. Improving quality and increasing quantity of illuminating coal-	F. Bredel	635,911	Oct. 31	3643	------	89	778
Gas-jet-igniting apparatus	A. Bachner	629,146	July 18	2241	519, 520	88	474
Gas-jets. Device for electrically lighting or extinguishing	O. von Morstein	629,803	Aug. 1	74	19	88	735
Gas-key lock	H. A. Stuart	633,400	Sept. 19	2280	537	88	2181
Gas-leak indicator	P. Hartenfels	634,687	Oct. 10	1320	313	89	280
Gas-light mantle. Incandescent	C. Clamond	631,617	Aug. 22	3509	791	88	1466
Gas-lights. Apparatus for forming incandescence mantles for	W. H. A. Sieverts	621,979	Mar. 28	2703	610	86	2064
Gas-lighter. Automatic	O. Windisch	638,786	Dec. 12	1128	251	89	2106
Gas-lighter. Electric	G. O. Lentschat	635,140	Oct. 17	2166	505	89	462
Gas-lighter. Electric	F. N. Pike	638,753	Dec. 12	1076	240	89	2097
Gas-lighter. Electric	F. N. Pike	638,754	Dec. 12	1077	240	89	2097
Gas-lighting apparatus	J. L. Creveling	629,890	Aug. 1	263	58	88	771
Gas-lighting apparatus	H. C. Farquharson and D. F. Root	627,226	June 20	1859	408	87	2013
Gas-lighting apparatus	E. H. C. Oehlmann	626,558	June 6	614	141	87	1733
Gas-lighting apparatus. Automatic	S. Rosinski and M. M. Ducruix	626,247	June 6	53	12	87	1625
Gas-lighting apparatus. Electric	W. E. Cram	631,888	Aug. 29	4000	895	88	1571
Gas-lighting appliance	A. Frank	632,522	Sept. 5	574	133	88	1821
Gas-lighting attachment	F. Billingham	633,983	Oct. 3	6	2	89	4
Gas-lighting attachment	J. E. Prunty	625,698	May 23	3138	713, 714	87	1372
Gas-lighting. Burner and pilot-light for incandescent	F. G. Bartlett	619,121	Feb. 7	616	131	86	931
Gas-lighting device	A. Simonini	623,572	Apr. 25	2536	583	87	545
Gas-lighting device	M. Spier	620,557	Feb. 28	3202	733	86	1486
Gas-lighting device. Automatic electrical	S. M. Meyer	630,814	Aug. 8	2036	459	88	1134
Gas lighting or extinguishing apparatus	G. O. Lentschat	638,345	Dec. 5	299	61	89	1924
Gas lighting or extinguishing mechanism. Time	A. B. Shaw	634,856	Oct. 10	1623	380	89	338
Gas-liquefying apparatus	J. E. Johnson, Jr	627,696	June 27	2768	606, 607	87	2209
Gas-liquefying apparatus	O. P. Ostergren and M. Burger	621,537	Mar. 21	1851	411	86	1884
Gas machine. Acetylene-	L. E. Corwin	634,879	Oct. 17	1668	393	89	364
Gas machine. Acetylene-	J. T. and T. C. Hays	627,926	June 27	3183	697	87	2295
Gas machine. Acetylene-	J. W. Hosler and C. F. Pressler	631,213	Aug. 15	2756	623	88	1299
Gas machine. Acetylene-	J. D. Kaufman, C. B. Titus, and A. E. Vanarsdale.	632,123	Aug. 29	4441	998	88	1658
Gas machine. Acetylene-	S. D. Kopf	623,481	Apr. 18	2362	543	87	498
Gas machine. Acetylene-	J. E. Landrum, Sr., G. F. Dillon, and J. E. Landrum, Jr.	634,690	Oct. 10	1325	314	89	281
Gas machine. Acetylene-	J. S. Seely and E. M. Rodenberger	640,085	Dec. 26	3411	782	89	2593
Gas-machine pump. Gasolene-	E. J. Crawford	634,612	Oct. 10	1191	282	89	254
Gas-main bag	G. W. Schultz	628,726	July 11	1467	341	88	306
Gas-mains. Means for localizing explosions in	E. Fouché	619,552	Feb. 14	1374	316	86	1098

Alphabetical list of inventions—Continued.

Invention.	Name.	No.	Date.	Monthly volume. Spec.	Monthly volume. Drg.	Official Gazette. Vol.	Official Gazette. Page.
Gas. Making	H. Neumann	633,031	Sept. 12	1541	358	88	2025
Gas. Making	M. Taylor	638,485	Dec. 5	575	119	89	1976
Gas. Making acetylene	T. G. Turner	637,682	Nov. 21	3166	656	89	1630
Gas. Manufacture of	J. A. Faux	630,602	Aug. 8	1678	377, 378	88	1064
Gas-manufacturing apparatus	F. Egner	617,646	Jan. 10	1491	340	86	310
Gas. Manufacturing water-	C. Dellwik	636,899	Nov. 14	1275	274, 275	89	1206
Gas-meter	W. Fiddes	626,893	June 13	1286	282	87	1881
Gas-meter	C. W. Hinman	638,457	Dec. 5	521	107	89	1967
Gas-meter	C. W. Hinman	638,458	Dec. 5	524	108	89	1967
Gas-meter	J. E. and H. L. Kennedy	623,911	Apr. 25	3171	730, 731	87	665
Gas-meter	E. T. Lee	620,939	Mar. 14	746	164	86	1659
Gas-meter	T. B. Wylie	638,792	Dec. 12	1138	253, 254	89	2108
Gas-meter coin-actuated attachment	J. Zander	618,928	Feb. 7	212	46, 47	86	846
Gas-meter. Coin-controlled	W. L. Cort and F. A. Langwith	621,902	Mar. 28	2546	574, 575	86	2035
Gas-meter diaphragm	J. Hearne and C. Lawson	618,350	Jan. 24	2835	630	86	601
Gas-meter. Prepayment	J. H. Bishop	627,290	June 20	1975	435, 436	87	2037
Gas-meter. Prepayment	T. Phillips	618,802	Jan. 31	3676	824	86	779
Gas-meter prepayment attachment	C. M. Burton	621,443	Mar. 21	1667	369, 370	86	1849
Gas-meter. Proportional	T. B. Wylie	638,791	Dec. 12	1136	253	89	2108
Gas-meter valve	J. Seymour	637,424	Nov. 21	2319	500	89	1425
Gas. Method of and apparatus for dehydrating	C. E. Hequembourg	620,773	Mar. 7	436	90	86	1587
Gas. Method of and apparatus for dehydrating	J. S. Smith	625,126	May 16	2151	488	87	1155
Gas. Method of and apparatus for manufacturing	H. Eldridge, D. J. Clark, and S. Blum.	625,251	May 16	2364	537	87	1196
Gas. Method of and apparatus for producing acetylene	W. A. Root	630,075	Aug. 1	665	143	88	855
Gas-motor	C. J. F. Mollet-Fontaine and L. A. C. Letombe.	634,063	Oct. 3	134	34, 35	89	31
Gas motor engine	J. H. Hamilton	621,526	Mar. 21	1831	407	86	1880
Gas motor-engine	E. J. Stoddard	623,224	Apr. 18	1902	436	87	399
Gas-motor regulating-valve	M. E. Hertel	639,385	Dec. 19	2220	514	89	2337
Gas-motors and gas-producers. Coupling	M. Taylor	638,655	Dec. 5	873	190	89	2035
Gas, oil, and water separator	A. P. McBride	637,148	Nov. 14	1783	382	89	1303
Gas or gasolene engine	A. Mahon	625,180	May 16	2233	507, 508	87	1171
Gas or gasolene engine	S. W. Zent	637,317	Nov. 21	2118	456	89	1384
Gas or oil engine	C. A. Anderson and E. A. Ericksson	630,838	Aug. 15	2079	470	88	1166
Gas or other meters. Valve connection for	J. Franklin	637,505	Nov. 21	2459	534	89	1451
Gas or steam engine. Oscillating	J. H. Frew	623,361	Apr. 18	2156	496	87	449
Gas or vapor burners. Automatic cut-off for	C. Bargamin	617,271	Jan. 3	778	181, 182	86	153
Gas or vapor burning apparatus	T. Clarkson	630,658	Aug. 8	1777	400, 401	88	1081
Gas or vapor engine	G. W. Lewis	621,110	Mar. 14	1081	235, 236	86	1723
Gas or vapor engine	H. J. Perkins	630,738	Aug. 8	1900	429	88	1105
Gas or vapor generator and burner	J. W. Weeks	635,624	Oct. 24	3082	708	89	656
Gas-pipe joints and ends. Locking-clip for	F. J. Schreiner	619,795	Feb. 21	1860	424	86	1216
Gas pipe or tubing. Canopy for	G. D. Sherwin	631,185	Aug. 15	2706	612	88	1288
Gas-pressure regulating and distributing apparatus	A. Lecomte and I. Loeser	627,618	June 27	2636	579	87	2184
Gas. Process of and apparatus for dehydrating	J. S. Smith	626,729	June 13	937	213	87	1814
Gas. Process of and apparatus for manufacturing	R. H. Laird	626,866	June 13	1224	270, 271	87	1868
Gas-producer	J. A. Bellon-Lencauchez	623,868	Apr. 25	3090	711, 712	87	649
Gas-producer	C. E. S. Burch and A. L. Kasson	619,538	Feb. 14	1352	311	86	1094
Gas-producer	W. Garrett	635,313	Oct. 24	2464	573	89	535
Gas-producer	G. R. Hislop	626,279	June 6	112	29	87	1635
Gas-producer	B. Talbot	619,631	Feb. 14	1514	346	86	1123
Gas-producer	M. Taylor	640,048	Dec. 26	3430	788	89	2597
Gas producer for metallurgical plants	E. C. Hegler	630,885	Aug. 15	2158	491	88	1181
Gas. Producing and liquefying acetylene	E. N. Dickerson and J. J. Suckert	629,668	July 25	3182	742	88	675
Gas. Producing and liquefying acetylene	E. N. Dickerson and J. J. Suckert	629,669	July 25	3186	743	88	675
Gas-producing apparatus	M. Taylor	636,084	Oct. 31	4009	916	89	849
Gas-producing apparatus. Acetylene-	A. H. Barthez	617,518	Jan. 10	1245	284	86	262
Gas. Producing heating and illuminating	W. Young, W. R. Herring, and A. Bell.	625,079	May 16	2057	462	87	1138
Gas pump or compressor	J. Keith	617,026	Jan. 3	313	73, 74	86	62
Gas-purifier	W. J. Baulieu	629,739	July 25	3317	774	88	701
Gas-purifier	B. E. Chollar	632,397	Sept. 5	342	78	88	1774
Gas-purifier	B. E. Chollar	632,399	Sept. 5	345	78	88	1774
Gas-purifier	B. E. Chollar	632,401	Sept. 5	349	79	88	1775
Gas-purifier	H. L. Doherty and I. Butterworth	629,958	Aug. 1	434	93	88	808
Gas-purifier manhole-cover	B. E. Chollar	632,398	Sept. 5	344	78	88	1774
Gas. Purifying	B. E. Chollar	632,400	Sept. 5	346	79	88	1775
Gas. Purifying acetylene	F. Ullmann	625,479	May 23	2767	------	87	1299
Gas-purifying apparatus	L. J. Hirt	620,925	Mar. 14	714	158	86	1653
Gas-reducing regulator	E. E. Murphy	619,206	Feb. 7	775	168	86	964
Gas-regulator	W. S. Adams	635,733	Oct. 31	3297	760	89	711
Gas-regulator	J. S. Connelly	627,843	June 27	3033	662	87	2262
Gas-regulator	J. Duncan	621,996	Mar. 28	2729	616	86	2070
Gas. Retort for making wood-	G. W. McLeod	627,737	June 27	2843	623	87	2225
Gas-retorts. Apparatus for removing graphite crusts from interiors of	A. Kerris	630,897	Aug. 15	2188	497	88	1187
Gas-scrubber	E. H. Yorke	632,081	Aug. 29	4355	979	88	1639
Gas steam, air, &c. Cut-off for	T. H. J. Leckband	617,812	Jan. 17	1829	408	86	396
Gas-tank	J. L. Creveling	621,228	Mar. 14	1291	285, 286	86	1765
Gas. Time apparatus for extinguishing	P. Barnikel	624,733	May 9	1429	321	87	1001

Alphabetical list of inventions—Continued.

Invention.	Name.	No.	Date.	Monthly volume. Spec.	Monthly volume. Drg.	Official Gazette. Vol.	Official Gazette. Page.
Gas to burners, &c. Electric appliance for controlling supply of	C. Franzen	631,037	Aug. 15	2450	556	88	1238
Gas. Train-lighting apparatus for compressed acetylene	A. Lipschutz and M. Toltz	633,866	Sept. 26	3117	723	88	2361
Gas-valve. Self-closing	J. Blevins	639,344	Dec. 19	2128	490	89	2318
Gas-vapor motor-engine	J. H. Hamilton	621,525	Mar. 21	1829	407	86	1879
Gas-vending machine	J. Geen	616,914	Jan. 3	89	19	86	19
Gas-washer	H. J. Smith	629,400	July 25	2699	628	88	582
Gas washing and purifying apparatus	E. Evans	631,460	Aug. 22	3214	730	88	1407
Gas washing or scrubbing apparatus	S., Jr., and J. Chandler	638,005	Nov. 28	3773	792	89	1771
Gases. Apparatus for determining constituents of	A. Steinbart and E. A. Uehling	637,488	Nov. 21	2428	528	89	1445
Gases by contact process. Combining	M. Schroeder	636,924	Nov. 14	1345	------	89	1218
Gases by refrigeration, especially applicable to separation of oxygen from air. Apparatus for separating mixed	W. Hampson	620,312	Feb. 28	2772	634	86	1404
Gases. Instrument for recording variations in tension of	A. Steinbart	639,306	Dec. 19	2054	472	89	2302
Gases. Vessel for containing compressed or liquefied	A. Sweetser and A. Pringle	636,083	Oct. 31	4008	916	89	849
Gaseous fuel. Apparatus for generating and utilizing	W. L. Teter	617,785	Jan. 17	1774	397, 398	86	383
Gaseous media. Apparatus for heating or cooling	A. Slucki	619,512	Feb. 14	1315	302	86	1087
Gasket for steam-boilers and coupling therefor	A. W. Chesterton	623,982	May 2	49	11	87	711
Gasket. Stem-packing	E. L. Perry	619,784	Feb. 21	1829	418	86	1210
Gasolene-engine	J. B. Doolittle	637,450	Nov. 21	2360	510, 511	89	1432
Gasolene-engine	C. O. White	634,679	Oct. 10	1305	307	89	278
Gasolene-fixture	J. H. Peden	635,180	Oct. 17	2226	518	89	474
Gasolene-heated implement	E. Hedges	631,368	Aug. 22	3046	690	88	1374
Gasolene or gas engine	J. A. Harp	628,316	July 4	703	163	88	135
Gasolene or gas engine	E. H. Korsmeyer	636,048	Oct. 31	3896	894, 895	89	828
Gasometer	W. F. Cooper	633,427	Sept. 19	2326	548	88	2191
Gate: *See* Automatic gate. Bridge-gate. Cattle-guard gate. Elevator-gate. End-gate. Farm-gate. Farm or stock gate. Flood-gate. Folding gate. Lever-actuated gate. Mine-gate. Railway-gate. Railway-crossing gate. Railway safety-gate. Rolling gate. Sliding gate. Spout-gate. Swing-gate. Swinging gate. Tail-gate. Tank discharge-gate. Waste-gate. Water-gate. Wire gate.							
Gate	D. B. Allsup and S. M. Wootan	619,652	Feb. 14	1562	356	86	1132
Gate	J. T. Argo	622,099	Mar. 28	2894	653, 654	86	2103
Gate	B. E. Bergen and B. F. Gill	639,137	Dec. 12	1733	400	89	2224
Gate	W. Blair	617,825	Jan. 17	1856	415	86	400
Gate	E. G. Cameron	626,269	June 6	84	21	87	1631
Gate	H. A. and E. R. Cheney	636,895	Nov. 14	1269	273	89	1205
Gate	N. Early, Jr	634,810	Oct. 10	1532	360	89	321
Gate	C. Elliott	631,780	Aug. 29	3825	852	88	1536
Gate	T. Ferguson and G. B. Brace	639,547	Dec. 19	2508	578	89	2393
Gate	A. Field	626,682	June 13	847	193	87	1798
Gate	B. A. Fisher	633,549	Sept. 19	2528	593	88	2228
Gate	J. Forbes	636,251	Nov. 7	42	10	89	933
Gate	S. D. Fry	639,921	Dec. 26	3201	735	89	2550
Gate	T. P. Gallup	638,009	Nov. 28	3779	794	89	1772
Gate	K. Gore	623,661	Apr. 25	2690	616	87	572
Gate	E. E. Hanken	635,044	Oct. 17	1952	462	89	421
Gate	C. H. Haslam	621,246	Mar. 14	1319	293	86	1770
Gate	S. D. Hathaway	629,360	July 25	2620	609	88	564
Gate	D. E. Helton	629,075	July 18	2101	491	88	447
Gate	P. C. Heninger	620,708	Mar. 7	315	64	86	1562
Gate	H. N. Hobart	625,768	May 30	3293	747	87	1420
Gate	H. N. Hobart	639,573	Dec. 19	2557	587	89	2403
Gate	O. B. Jacobs	634,351	Oct. 3	733	175	89	147
Gate	J. T. Johnson	619,576	Feb. 14	1412	325	86	1104
Gate	W. M. Kent	629,509	July 25	2917	678	88	623
Gate	J. S. Lewis	619,766	Feb. 21	1783	409	86	1201
Gate	H. Lorton	631,311	Aug. 22	2950	667	88	1354
Gate	J. H. Mahan	634,010	Oct. 3	54	15,16	89	14
Gate	C. E. Marsh, B. D. Crosley, and W. Bruner.	636,440	Nov. 7	355	80	89	993
Gate	S. W. Martin	628,013	July 4	101	21	88	21
Gate	D. S. McMullen	618,714	Jan. 31	3524	786	86	748
Gate	J. B. Miesse	621,969	Mar. 28	2678	603	86	2059
Gate	R. J. Parker, J. H. Banker, and H. U. Mudge.	634,066	Oct. 3	139	36	89	32
Gate	J. A. Perky	629,014	July 18	1992	464	88	425
Gate	J. F. Pifer	617,494	Jan. 10	1202	273, 274	86	254
Gate	W. R. Pitt	622,016	Mar. 28	2756	622	86	2076
Gate	O. E. Potter	618,290	Jan. 24	2735	606	86	583
Gate	C. Rice	618,816	Jan. 31	3700	828	86	783
Gate	H. J. Ritter	618,619	Jan. 31	3348	744	86	713
Gate	G. R. Rogers	631,969	Aug. 29	4141	932	88	1598
Gate	G. Sommer	632,853	Sept. 12	1223	280	88	1966
Gate	C. Steel	631,187	Aug. 15	2709	613, 614	88	1289
Gate	J. L. Stoutenborough	636,011	Oct. 31	3835	882	89	816
Gate	J. M. Tanner	632,288	Sept. 5	153	35	88	1737

Alphabetical list of inventions—Continued.

Invention.	Name.	No.	Date.	Monthly volume.		Official Gazette.	
				Spec.	Dr'g.	Vol.	Page.
Gate	R. M. Teague	624,702	May 9	1379	308	87	990
Gate	J. A. Welch	636,092	Oct. 31	4019	918	89	852
Gate	J. Wilhelm	621,727	Mar. 21	2195	495	86	1953
Gate	W. D. Wilson	630,433	Aug. 8	1367	305, 306	88	1003
Gate	S. A. Wine	632,161	Aug. 29	4507	1015	88	1671
Gate	A. J. Wood	639,800	Dec. 26	2991	688	89	2509
Gate	T. Wortman	629,706	July 25	3251	757	88	688
Gate	A. P. Zook	621,513	Mar. 21	1807	401, 402	86	1875
Gate-can	R. C. Hopkins	619,750	Feb. 21	1755	402	86	1195
Gate-fastener	J. F. Marcum and G. Hauenstein	626,180	May 30	4150	945	87	1581
Gate-fastener	C. M. Weaver	618,305	Jan. 24	2764	612, 613	86	588
Gate-locking device. Head-	B. F. Powell	631,667	Aug. 22	3591	809	88	1483
Gate-opening device	M. E. Fassett	637,927	Nov. 28	3618	758	89	1742
Gate opening or closing device	P. C. and A. J. Gibbons	626,158	May 30	4112	937	87	1573
Gate opening or closing device. Swinging-	G. B. Morton	629,200	July 18	2328	540	88	489
Gate-operating device	H. W. Lewis	622,241	Apr. 4	73	17	87	17
Gates. Antifrictional attachment for water or other	J. H. Hendy	621,566	Mar. 21	1904	426	86	1894
Gauze-carrier	C. T. Cooke	636,637	Nov. 7	733	160	89	1069
Gear	M. C. Johnson	618,272	Jan. 24	2703	600	86	575
Gear and buffing apparatus. Draw-	G. Westinghouse	629,943	Aug. 1	397	86, 87, 88	88	800
Gear. Ball-toothed driving-	O. Sehrwald	636,007	Oct. 31	3829	880	89	814
Gear-case	C. A. Chevalier and N. G. Vasseur	619,672	Feb. 14	1592	364	86	1138
Gear-casing	M. T. Reeves, J. N. Kailor, and H. C. Clay.	635,024	Oct. 17	1909	455	89	412
Gear. Chain-	G. F. Sturgess	618,190	Jan. 24	2566	567	86	550
Gear. Change driving-	F. G. Hampson	624,017	May 2	115	25,26	87	725
Gear. Change-speed	R. Lucas	639,256	Dec. 19	1961	451, 452	89	2283
Gear-changing mechanism	A. Meyers	630,512	Aug. 8	1512	338	88	1030
Gear-cutter clamp for wheel-blanks	U., H. E., and F. L. Eberhardt	617,723	Jan. 17	1638	368, 369	86	358
Gear-cutting machine	W. G. Burnham	621,519	Mar. 21	1817	403, 404	86	1877
Gear-cutting machine	J. S. Copeland	638,216	Dec. 5	14	5	89	1870
Gear-cutting machine	J. S. Copeland	638,562	Dec. 5	701	149	89	2000
Gear-cutting machine	H. F. Cuntz	638,563	Dec. 5	708	149, 150	89	2000
Gear-cutting machine	E. H. Parks	624,676	May 9	1329	296, 297	87	980
Gear-cutting machine	C. D. Rice	627,310	June 20	2015	443, 444, 445	87	2045
Gear. Differential	R. F. Daly	624,186	May 2	444	92	87	785
Gear. Differential	C. H. Metz	624,519	May 9	1061	239	87	928
Gear. Driving-	J. W. and W. W. Brereton	634,163	Oct. 3	335	84,85	89	69
Gear. Driving-	T. R. Jarvis	624,816	May 9	1593	362	87	1033
Gear. Driving-	W. H. McCormick	633,470	Sept. 19	2393	562	88	2203
Gear. Driving-	J. K. Starley	628,169	July 4	395	93	88	80
Gear. Friction-	J. E. Thornton and J. P. Lea	625,859	May 30	3470	787	87	1454
Gear-generating machine. Bevel-	H. W. Cheney	630,325	Aug. 8	1109	242, 243, 244	88	955
Gear. Platform-	J. H. Nichols	631,122	Aug. 15	2607	589	88	1268
Gear. Reversing-	G. Palm	618,433	Jan. 31	3027	670	86	652
Gear. Reversing-	C. C. Riotte	626,395	June 6	342	79,80	87	1680
Gear. Variable-speed	W. H. Newman	637,477	Nov. 21	2409	522, 523	89	1442
Gear. Variable-speed driving-	A. E. Creese	636,024	Oct. 31	3858	886	89	820
Gear. Variable-speed driving-	T. C. Field	639,548	Dec. 19	2509	578	89	2393
Gear teeth. Machine for generating bevel-	H. M. Leland and F. E. Ferris	624,508	May 9	1034	233, 234, 235	87	921
Gear-wheel	F. O. Bullis	638,795	Dec. 12	1144	255	89	2109
Gears. Swinging shelf for	J. Flather	635,013	Oct. 17	1893	450	89	410
Gearing	H. B. Binsse	626,884	June 13	1273	278, 279	87	1878
Gearing	D. C. Frazeur	631,208	Aug. 15	2749	622	88	1297
Gearing	F. Humpage	628,469	July 11	973	225	88	208
Gearing	F. B. Hunt	638,719	Dec. 12	1013	227	89	2083
Gearing	R. W. Jamieson	620,074	Feb. 21	2342	531	86	1308
Gearing	R. W. Jamieson	630,709	Aug. 8	1856	419	88	1096
Gearing	W. W. Kenfield	623,087	Apr. 11	1619	372	87	330
Gearing	W. W. Kenfield	628,407	July 4	852	200	88	163
Gearing	F. W. Mase	632,875	Sept. 12	1287	295, 296	88	1875
Gearing	J. F. Morgan	619,774	Feb. 21	1800	412	86	1204
Gearing	V. V. Torbensen	632,886	Sept. 12	1302	299	88	1978
Gearing. Angle-	R. W. Jamieson	630,710	Aug. 8	1857	419	88	1097
Gearing. Antifriction-	C. Whitney	626,515	June 6	545	126	87	1719
Gearing. Bevel-	W. C. Smith	635,875	Oct. 31	3566	821	89	762
Gearing. Chain-	J. Haider	616,919	Jan. 3	101	22	86	22
Gearing. Chain-	T. Hewett	639,043	Dec. 12	1566	359	89	2192
Gearing. Changeable-speed	L. D. Ferris	619,551	Feb. 14	1372	316	86	1097
Gearing. Driving-	C. A. A. Rand	636,289	Nov. 7	114	25	89	945
Gearing. Friction-	F. Dürr	619,152	Feb. 7	683	146	86	945
Gearing. Friction-	J. and J. F. Wilhelm	625,076	May 16	2050	461	87	1137
Gearing-generating machine	O. J. Beale	618,978	Feb. 7	360	74	86	879
Gearing-generating machine	O. J. Beale	618,979	Feb. 7	363	74,75	86	880
Gearing. Roller-	C. L. Travis	632,599	Sept. 5	705	163, 164	88	1846
Gearing. Variable-speed	W. E. Simpson	632,591	Sept. 5	694	160	88	1843

Alphabetical list of inventions—Continued.

Invention.	Name.	No.	Date.	Monthly volume. Spec.	Monthly volume. Drg.	Official Gazette. Vol.	Official Gazette. Page.
Gearing. Variable-speed	G. Sittmann	635,518	Oct. 24	2889	659, 660	89	618
Gearing. Variable-speed	H. Smith	626,444	June 6	422	100	87	1695
Gearing. Variable-speed	H. Smith	626,445	June 6	424	100	87	1696
Gearing. Variable-speed frictional	G. S. Hale	617,738	Jan. 17	1665	375	86	364
Gearing. Wheel-	W. H. Monk	620,480	Feb. 28	3041	696	86	1455
Gearing. Worm-	J. H. Barr	624,734	May 9	1431	322	87	1001
Gelatin, glycerin, and bichromate of potash. Treating	C. Ives	623,608	Apr. 25	2601	------	87	556
Gelatin tubes. Apparatus for forming	P. J. Foulon	634,449	Oct. 10	907	218	89	198
Gelatinous substances. Apparatus for manufacturing tubes from	C. Dye	634,685	Oct. 10	1317	311, 312	89	279
Gem-setting	F. A. Ballou and C. A. Burdett	634,567	Oct. 10	1118	265	89	240
Generator: *See* Acetylene-generator. Electric generator. Fluid-pressure generator. Furnace-generator. Gas-generator. Gas or vapor generator. Hydrocarbon-generator. Magneto-electric generator. Ozone-generator. Steam-generator. Steam or hot-water generator. Steam-pressure generator.							
Generator	F. J. Furman	617,092	Jan. 3	440	106, 107, 108	86	85
Generator	J. O. Morris	617,594	Jan. 10	1394	316	86	290
Germ extract. Making	A. M. Parker	624,675	May 9	1328	------	87	980
Germ or insect exterminator	E. W. Terrell	620,079	Feb. 21	2348	532	86	1309
Gin driving mechanism	C. W. Brown	634,800	Oct. 10	1515	356	89	317
Gin-saw cleaner	G. Ogden	633,480	Sept. 19	2407	567	88	2206
Gin-saw-filing machine	A. A. Wood	620,727	Mar. 7	351	72, 73	86	1570
Gin-saw gummer	I. C. Shrader	635,063	Oct. 17	1989	470	89	429
Gin-saw-gumming machine	A. A. Wood	620,726	Mar. 7	345	71, 72	86	1568
Gin-saw teeth. Machine for cleaning and straightening	G. P. Roberts	619,842	Feb. 21	1940	441	86	1233
Girdle. Bust-	M. W. Comly	634,429	Oct. 3	869	210	89	175
Glass: *See* Medicine-glass. Window-glass.							
Glass annealing and purifying furnace	J. D. Neipling	617,690	Jan. 10	1570	355, 356	86	325
Glass-annealing furnace	W. Preston	625,801	May 30	3363	764	87	1433
Glass. Apparatus for manufacturing window-	J. Haley	624,480	May 9	982	218	87	913
Glass. Apparatus for manufacturing window-	J. Haley	624,481	May 9	983	219	87	913
Glass articles. Apparatus for forming	J. J. Power	619,694	Feb. 14	1641	376, 377	86	1148
Glass articles. Apparatus for forming hollow	W. Buttler and H. H. Clough	630,284	Aug. 1	1016	224	88	923
Glass articles. Machine for grinding	E. F. Gennert	634,452	Oct. 10	912	218, 219	89	200
Glass articles. Making	M. J. Owens	628,027	July 4	122	24	88	25
Glass articles. Manufacture of	P. T. Sievert	637,899	Nov. 28	3573	748	89	1732
Glass articles. Perforating	E. A. Parker	628,030	July 4	126	26	88	26
Glass articles. Punching or stamping out	P. T. Sievert	637,038	Nov. 14	1556	335	89	1261
Glass-beveling machine	E. H. Pearce and A. Griffiths	640,019	Dec. 26	3372	772, 773	89	2584
Glass block. Hollow	A. Lasch	628,821	July 11	1646	380	88	342
Glass-blowing machine	L. H. Dolan	631,624	Aug. 22	3520	792, 793, 794	88	1468
Glass-blowing machine	M. J. Owens	625,513	May 23	2832	645	87	1312
Glass-blowing machine	M. J. Owens	635,344	Oct. 24	2512	584	89	544
Glass-blowing machine	C. Z. F. Rott and T. C. Steimer	625,701	May 23	3148	715, 716	87	1374
Glass-blowing machine	C. H. W. Ruhe	635,392	Oct. 24	2633	607, 608	89	569
Glass-blowing machine	C. H. W. Ruhe	635,393	Oct. 24	2635	608, 609	89	569
Glass-blowing machine. Paste-mold	J. C. Triance	636,590	Nov. 7	635	140	89	1051
Glass-blowing machines. Automatic blast-regulator for	H. J. Colburn	632,486	Sept. 5	503	115	88	1806
Glass bottles. Machine for manufacturing	L. Grote	628,313	July 4	697	161, 162	88	134
Glass bulbs. Tool for manufacturing	F. Fanta	629,555	July 25	2985	698	88	637
Glass. Composition for protecting panes of	S. Hackelberg	632,014	Aug. 29	4226	------	88	1615
Glass conduits. Collapsible core for manufacturing	T. M. Flower	635,311	Oct. 24	2462	572, 573	89	535
Glass cooling or annealing oven	F. Sporer	636,078	Oct. 31	4000	914	89	848
Glass-cutting machine	C. E. Manning	635,265	Oct. 17	2365	552, 553	89	500
Glass-cutting machine	L. West	621,591	Mar. 21	1940	434	86	1902
Glass cylinders. Manufacture of	W. Buttler	617,923	Jan. 17	2042	457	86	438
Glass cylinders while being cut. Machine for holding	C. E. Ball	627,288	June 20	1972	434	87	2037
Glass. Decorated	J. A. Luxheim	618,605	Jan. 31	3325	------	86	709
Glass. Decorating	J. A. Luxheim	618,606	Jan. 31	3326	------	86	709
Glass-dipping machine	C. E. Blue	631,195	Aug. 15	2721	616	88	1292
Glass during manufacture into mirrors. Means for protecting surfaces of	H. E. Miller	621,360	Mar. 21	1530	340	86	1824
Glass facing-tile	J. Gordon	624,523	May 16	1788	403	87	1088
Glass-finishing machine	H. Schreiber	623,291	Apr. 18	2028	466	87	425
Glass from tanks to molds. Measuring and delivering molten	C. E. Blue	631,196	Aug. 15	2724	616, 617	88	1293
Glass from tanks to molds. Method of and apparatus for dipping, measuring, and transferring molten	W. E. Smith	617,818	Jan. 17	1839	411	86	398
Glass-furnace	E. Ford	629,557	July 25	2988	698, 699	88	637

Alphabetical list of inventions—Continued.

Invention.	Name.	No.	Date.	Monthly volume. Spec.	Monthly volume. Dr'g.	Official Gazette. Vol.	Official Gazette. Page.
Glass-furnace	J. M. Miller	630,464	Aug. 8	1430	320	88	1015
Glass grinding and polishing machine	F. F. Fischer	619,399	Feb. 14	1114	252	86	1047
Glass grinding and polishing machine	G. A. Marsh	637,881	Nov. 28	3536	741	89	1725
Glass grinding and polishing machine	P. Semmer	639,621	Dec. 19	2639	606	89	2420
Glass grinding and polishing machine. Plate	M. R. Welty	639,323	Dec. 19	2088	480	89	2310
Glass-grinding machine	F. A. Hubbuch	631,640	Aug. 22	3549	800	88	1474
Glass-grinding machine. Plate	M. R. Welty	637,306	Nov. 21	2099	451, 452	89	1380
Glass grinding, smoothing, and polishing apparatus	G. A. Marsh	631,898	Aug. 29	4013	898	88	1574
Glass-holding apparatus	G. A. Marsh	631,855	Aug. 29	3950	883	88	1562
Glass-holding table	G. A. Marsh	631,856	Aug. 29	3952	883	88	1562
Glass-holding table. Plate	G. A. Marsh	631,857	Aug. 29	3953	883, 884	88	1562
Glass-horse	C. Leng	624,346	May 2	733	163	87	840
Glass. Illuminating window	C. E. Manning	622,506	Apr. 4	567	133	87	107
Glass in manufacturing glassware. Machine for automatically gathering and delivering	W. F. Altenbaugh	618,974	Feb. 7	333	71,72	86	875
Glass in manufacturing glassware. Machine for automatically gathering and delivering	W. F. Altenbaugh	618,975	Feb. 7	345	72,73	86	877
Glass in manufacturing glassware. Machine for automatically ladling	W. F. Altenbaugh	618,973	Feb. 7	325	69,70	86	872
Glass. Making rough plate	P. Semmer	628,120	July 4	306	72	88	61
Glass-manufacturing apparatus	J. George and C. M. Shortle	635,041	Oct. 17	1943	461	89	419
Glass-melting furnace	W. Buttler	624,290	May 2	635	139	87	820
Glass-melting furnace	W. Buttler	624,291	May 2	637	139	87	820
Glass. Metal joint for window	H. W. Rudolf	628,589	July 11	1200	281	88	251
Glass, metals, &c. Means for grinding or polishing	W. O. Bailey	617,668	Jan. 10	1527	346, 347	86	317
Glass-molding machine	H. Bastow	620,828	Mar. 7	534	115	86	1607
Glass or bottle washer	J. Barbero	630,843	Aug. 15	2089	473	88	1167
Glass or metal pipes. Shrinking core for molding	G. G. Winans	619,815	Feb. 21	1885	430	86	1221
Glass. Ornamenting	C. P. Dorpols	632,008	Aug. 29	4218	949	88	1613
Glass. Ornamenting	T. Pfister	625,464	May 23	2745	625	87	1293
Glass panes. Apparatus for cleaning	C. Wernicke	639,956	Dec. 26	3271	748	89	2564
Glass pipe. Apparatus for making	J. W. Bonta	627,093	June 20	1631	357	87	1968
Glass pipe. Apparatus for making	J. W. Bonta	627,094	June 20	1633	357, 358	87	1968
Glass pipe. Apparatus for manufacturing	J. W. Bonta	639,509	Dec. 19	2435	562, 563	89	2379
Glass pipe. Process of and apparatus for manufacturing	J. W. Bonta	627,092	June 20	1629	356, 357	87	1967
Glass-press	R. P. Lippincott	618,178	Jan. 24	2546	563	86	546
Glass-press	B. B. Messer	626,072	May 30	3911	888	87	1536
Glass-pressing apparatus	G. E. Cleveland	628,157	July 4	375	88, 89	88	76
Glass-pressing machine	T. Coleman, Jr., and W. H. Ehmsen	618,560	Jan. 31	3251	722	86	694
Glass prism-plate	G. Fugman	627,848	June 27	3040	664	87	2264
Glass. Process of and apparatus for manufacturing sheet	J. George and C. M. Shortle	618,861	Feb. 7	77	16	86	819
Glass rollers. Method of and apparatus for making	W. Buttler	617,921	Jan. 17	2038	456	86	437
Glass-rolling machine	T. J. McCoy	635,340	Oct. 24	2504	582	89	543
Glass-tank	A. O. Hurley	617,748	Jan. 17	1682	379	86	367
Glass-tubing joint	G. E. Hoey	620,320	Feb. 28	2787	637	86	1407
Glass tumblers. Manufacture of	J. B. Fondu	622,458	Apr. 4	467	109, 110	87	86
Glass tumblers. Manufacture of	J. B. Fondu	625,547	May 23	2891	657, 658	87	1324
Glass tumblers. Manufacture of	J. B. Fondu	625,548	May 23	2895	658	87	1325
Glass tumblers. Manufacture of	J. B. Fondu	626,895	June 13	1288	283	87	1881
Glass vessels. Machine for making	R. and R. Good, Jr	626,464	June 6	456	107	87	1702
Glass-worker's tool	P. Shaw	634,276	Oct. 3	578	143	89	115
Glass-working machine	I. W. Colburn	620,567	Mar. 7	16	4	86	1505
Glass-working machine	I. W. Colburn	620,568	Mar. 7	22	4,5	86	1506
Glass-working machine	I. W. Colburn	620,642	Mar. 7	178	37, 38, 39	86	1536
Glass-working machine	I. W. Colburn	621,794	Mar. 28	2330	523, 524	86	1993
Glass-working machine	I. W. Colburn	621,795	Mar. 28	2336	524, 525	86	1995
Glass-working machine	I. W. Colburn	626,859	June 13	1197	265, 266	87	1864
Glasses. Combination	G. W. Bennum	624,445	May 9	914	206	87	901
Glassware and pottery-ware. Mold for pressed	A. R. Grotz	636,795	Nov. 14	1086	233	89	1168
Glassware. Apparatus for fire-finishing	W. Buttler	617,920	Jan. 17	2036	456	86	436
Glassware articles. Apparatus for finishing	C. Z. F. Rott	625,468	May 23	2750	626	87	1295
Glassware. Cracking off tubular	C. Z. F. Rott	625,065	May 16	2033	457, 458	87	1135
Glassware. Decorating	H. Thuemler	628,131	July 4	326	------	88	66
Glassware etching, stamping, or marking machine	J. E. Lippincott	622,816	Apr. 11	1133	262, 263	87	234
Glassware-finishing apparatus	D. E. Carle and R. W. Blaze	620,693	Mar. 7	287	57	86	1557
Glassware. Furnace for fire-finishing	W. Buttler	633,985	Oct. 3	8	2	89	4
Glassware. Grinding	F. Woodruff	622,312	Apr. 4	201	45	87	38
Glassware. Machine for making hollow	J. T. Rowe	622,270	Apr. 4	123	28, 29	87	26
Glassware. Machine for manufacturing	C. E. Blue	617,947	Jan. 17	2074	465	86	445
Glassware. Machine for manufacturing	C. E. Blue	617,948	Jan. 17	2078	466	86	445
Glassware. Machine for manufacturing	C. E. Blue	617,949	Jan. 17	2080	466, 467	86	446
Glassware. Machine for manufacturing	C. E. Blue	617,950	Jan. 17	2083	467, 468	86	447
Glassware-mold	W. Butler	639,146	Dec. 12	1746	403	89	2226
Glassware-mold	G. H. Gray	634,107	Oct. 3	232	59	89	49
Glassware. Mold for manufacturing hollow	R. Mossgrove, Jr	632,057	Aug. 29	4310	970	88	1631
Glassware-molding machine	H. H. Bridgwater	629,844	Aug. 1	166	39	88	753
Glazing-frame	O. E. Winger	627,168	June 20	1762	386	87	1994
Globe	T. H. Costello	637,088	Nov. 14	1651	357	89	1278

Alphabetical list of inventions—Continued.

Invention.	Name.	No.	Date.	Monthly volume.		Official Gazette.	
				Spec.	Dr'g.	Vol.	Page.
Globe	T. H. Costello	637,237	Nov. 21	1967	419	89	1354
Globe	T. E. Drohan	627,487	June 27	2373	522	87	2132
Globe and mounting therefor	W. M. Goldthwaite	630,604	Aug. 8	1682	378	88	1064
Globe-holder	A. G. Snow	634,221	Oct. 3	454	116	89	94
Globe. Smoke-consuming	J. Durlam	621,910	Mar. 28	2562	577	86	2039
Glory-hole	A. Daubenmeyer	617,925	Jan. 17	2044	458	86	439
Glory-hole furnace. Portable	F. Wallace	640,052	Dec. 26	3437	790	89	2598
Glove	J. Comrie	634,443	Oct. 10	896	216	89	197
Glove	J. Horn	622,688	Apr. 11	929	214	87	196
Glove	S. L. Luther. (Reissue)	11,753	June 27	3240	711	87	2307
Glove	D. H. Murphy	628,017	July 4	109	22	88	23
Glove	M. A. Perlinsky	635,269	Oct. 17	2375	555	89	502
Glove	J. A. Vogan	626,353	June 6	252	59	87	1663
Glove. Boxing	W. G. Wood	618,970	Feb. 7	313	68	86	871
Glove-fastener	G. T. Chapman	635,655	Oct. 24	3135	722	89	666
Glove-fastener	A. F. and E. F. Hall	628,660	July 11	1365	318	88	283
Glove-fastener	W. S. Richardson	623,687	Apr. 25	2737	627	87	582
Glove-fastener	W. S. Richardson	631,440	Aug. 22	3180	722	88	1401
Glove-fastening	C. A. Pfenning	622,164	Mar. 28	3029	685	86	2131
Glove-fastening setting device	W. B. Murphy	621,535	Mar. 21	1849	410	86	1883
Glove. Husking	F. Greenstreet	629,901	Aug. 1	285	64	88	776
Glove or mitten	P. P. Reisenhus	630,302	Aug. 1	1062	231	88	931
Glove-stretcher	L. Isaacs	620,873	Mar. 7	627	137	86	1626
Glue-applying machine	U. G. Charles	635,844	Oct. 31	3507	805	89	752
Glue-applying machine	L. A. Halaburt	619,077	Feb. 7	532	112	86	914
Glue-melting apparatus	J. Rowe	631,327	Aug. 22	2978	674	88	1360
Glue-press clamping device	A. E. Palmer	625,193	May 16	2255	512	87	1175
Glue-spreading machine	W. C. Bosenbury	627,567	June 27	2525	555	87	2161
Gluten compound	W. Painter	619,336	Feb. 14	1006	------	86	1027
Gluten compound	W. Painter	619,337	Feb. 14	1007	------	86	1027
Gluten compound	W. Painter	619,338	Feb. 14	1008	------	86	1027
Glycerin. Recovering	J. de Diesbach	631,396	Aug. 22	3102	703	88	1385
Glycerin solutions. Apparatus for concentrating crude	J. Foster	638,571	Dec. 5	718	153	89	2004
Glycocol ester and making same	A. Einhorn	619,549	Feb. 14	1369	------	86	1097
Glycocol-phenol ester and making same	A. Einhorn	624,772	May 9	1505	------	87	1016
Go-cart	I. N. Dann	633,431	Sept. 19	2333	550	88	2192
Go-cart	G. T. Lamont	637,210	Nov. 14	1909	409	89	1327
Go-cart. Folding	E. Depersenaire	639,670	Dec. 19	2737	629	89	2440
Go-cart. Folding	Y. P. Lee	633,141	Sept. 19	1778	419	88	2083
Goblets, &c. Machine for putting stems and feet on	O. Sigwart	624,389	May 2	811	182	87	856
Gold and silver bearing solutions. Filtering apparatus for separating	A. M. Nicholas	619,211	Feb. 7	783	170 171	86	966
Gold and silver bearing solutions from ores or slimes. Apparatus for separating	G. S. Duncan	623,465	Apr. 18	2332	535	87	487
Gold and silver ores and composition of matter for same purpose. Treating	E. D. Kendall	625,564	May 23	2923	664	87	1330
Gold and silver ores and composition of matter for same purpose. Treating	E. D. Kendall	625,565	May 23	2925	664	87	1330
Gold by electrolysis. Production of chemically-pure	E. Wohlwill	625,864	May 30	3489	------	87	1457
Gold-dredger elevator	R. H. Postlethwaite	629,602	July 25	3076	717	88	654
Gold-dredging apparatus	R. H. Postlethwaite	622,532	Apr. 4	634	149	87	120
Gold from chlorid or bromid solutions. Precipitating	F. W. Martino and F. Stubbs	637,140	Nov. 14	1770	------	89	1301
Gold from cyanid. Extracting	W. A. Caldecott	620,100	Feb. 28	2389	------	86	1331
Gold from ores, minerals, or other gold-bearing substances. Extracting	J. G. Black and R. C. Skeet	620,215	Feb. 28	2603	591	86	1370
Gold from pulp, slimes, &c. Recovering	W. Kemmis-Betty and B. Searle	630,982	Aug. 15	2351	------	88	1219
Gold from river-beds. Apparatus for collecting	J. T. Davis	619,727	Feb. 21	1723	394	86	1189
Gold. Obtaining chemically-pure	E. Wohlwill	625,863	May 30	3483	790	87	1457
Gold or silver. Extracting	J. J. Hood	629,905	Aug. 1	296	------	88	778
Gold or silver ores. Treating	J. Smith	635,199	Oct. 17	2258	------	89	480
Gold-separator	F. E. Jackson and L. R. Henley	618,270	Jan. 24	2701	599	86	575
Gold tubing. Manufacture of silver-lined	J. J. Sommer	626,348	June 6	246	57	87	1661
Gold-washing apparatus	J. H. Fellows	637,861	Nov. 28	3505	731	89	1718
Gold-washing machine	F. Ortlieb	622,255	Apr. 4	94	21, 22	87	22
Gold-washing pan	S. G. Stoodley	618,918	Feb. 7	188	41	86	842
Gold-waste from jewelers' washings. Trap for recovering	D. I. Byers	628,922	July 18	1833	426	88	394
Golf-club	W. L. Smith	626,347	June 6	245	57	87	1661
Golf-club	H. R. Sweny	632,885	Sept. 12	1301	299	88	1978
Golf-club head. Iron	G. Lowe	622,699	Apr. 11	941	217	87	198
Golf-holes. Device for	E. A. Turner	621,390	Mar. 21	1579	350	86	1833
Golf-practicing apparatus	J. G. Warren	628,236	July 4	512	124	88	102
Golf-sticks, fishing-rods, &c. Handle-grip for	L. E. Crosier	621,993	Mar. 28	2720	614	86	2068
Golf-tee	G. F. Grant	638,920	Dec. 12	1362	310	89	2152
Golfometer	S. W. Andrews	619,520	Feb. 14	1340	308	86	1091
Gong. Alarm	E. W. Vanduzen	628,133	July 4	334	80	88	68
Gong. Electromechanical	C. E. Beach	616,879	Jan. 3	12	3	86	5
Gong-ringing apparatus	L. J. Klemm	634,005	Oct. 3	44	13	89	12
Gopher or squirrel trap	F. W. French	636,788	Nov. 14	1075	230	89	1166
Gopher-trap	C. W. Roth	619,996	Feb. 21	2199	500	86	1280
Governing device for gas-engines	G. W. Lewis	621,111	Mar. 14	1085	236	86	1723
Governing mechanism for internal-combustion engines.	G. L. Woodworth	634,973	Oct. 17	1831	434	89	397
Governor	G. A. Brachhausen	637,368	Nov. 21	2218	477	89	1404
Governor	V. E. Hunter	627,422	June 20	2258	499	87	2093
Governor	O. Steinle	631,340	Aug. 22	2998	680	88	1365
Governor and speed-indicator. Centrifugal	K. W. R. Lynen	618,423	Jan. 31	3009	666	86	649
Governor. Astatic centrifugal	M. Tolle	621,871	Mar. 28	2479	553	86	2023
Governor. Automatic	O. Hughes	638,016	Nov. 28	3794	797 798	89	1776
Governor. Auxiliary	W. E. Dean	631,778	Aug. 29	3821	851 852	88	1535
Governor. Centrifugal	P. Brotherhood	630,773	Aug. 8	1962	443	88	1118

Alphabetical list of inventions—Continued.

Invention.	Name.	No.	Date.	Monthly volume.		Official Gazette.	
				Spec.	Dr'g.	Vol.	Page.
Governor. Combined speed and pressure	J. W. Gardner	638,412	Dec. 5	436	90	89	1948
Governor cut-off	M. O. Arnegaard	632,085	Aug. 29	4360	980	88	1641
Governor cut-off for engines. Variable	M. O. Arnegaard. (Reissue)	11,711	Jan. 24	2933	648	86	622
Governor. Engine-	R. Conrader	636,764	Nov. 14	1026	220	89	1156
Governor. Engine-	H. Lentz	626,546	June 6	598	137, 138	87	1730
Governor. Engine-	C. D. Palmiter	634,650	Oct. 10	1249	296	89	265
Governor. Engine-	G. E Riblet	623,740	Apr. 25	2813	644	87	596
Governor. Engine-	A. S. F. Robinson	627,353	June 20	2104	464, 465	87	2063
Governor. Gas-engine	J. C. Schneble	623,630	Apr. 25	2635	602	87	562
Governor mechanism	G. A. Brachhausen	628,919	July 18	1828	425	88	393
Governor mechanism	R. Shirreffs	639,450	Dec. 19	2339	540	89	2359
Governor. Motor-engine	H. E. Menier	627,700	June 27	2778	608, 609	87	2211
Governor. Rotary-engine	G. C. Pyle	627,782	June 27	2919	638, 639	87	2240
Governor. Steam-	L. Parkinson	619,606	Feb. 14	1467	336	86	1114
Governor. Steam-engine	H. C. Nichols	618,431	Jan. 31	3023	669	86	651
Governor. Steam-engine	L. Skinner	628,591	July 11	1202	281	88	252
Governor. Traction-engine	C. K. Thoe	637,751	Nov. 21	3283	685	89	1654
Grab-hook	L. Charest	631,697	Aug. 22	3639	821	88	1493
Grade-delineator	M. A. Batson and C. G. Sawtelle, Jr.	616,878	Jan. 3	10	3	86	4
Grade-delineator	J. Riddell	624,866	May 9	1689	383	87	1051
Grade-indicating and profile apparatus	E. A. Uehling	624,268	May 2	594	128, 129	87	812
Grader and ditcher. Road	G. F. Earhart	632,452	Sept. 5	444	100	88	1795
Grader and roller. Combined land	J. M. Robinson	619,504	Feb. 14	1301	298	86	1084
Grader. Ditch-	J. J. Helling	628,800	July 11	1615	372	88	336
Grader. Elevating-	S. F. Welch	619,374	Feb. 14	1067	240, 241	86	1038
Grader. Road-	J. W. Macy	618,010	Jan. 17	2180	487	86	463
Grader. Road-	J. W. Macy	631,897	Aug. 29	4012	898	88	1574
Grading and ditching machine	D. D. Kuhlman	625,270	May 16	2398	544	87	1202
Grading and ditching machine	W. H. Morenus	631,578	Aug. 22	3451	780	88	1455
Grading and ditching machine	W. H. Tidland	620,725	Mar. 7	342	70,71	86	1568
Grading and ditching machine. Road-	J. W. Cornett	623,395	Apr. 18	2214	508	87	462
Grain and seed distributer	E. D. Mead	637,518	Nov. 21	2482	538	89	1455
Grain, &c. Apparatus for elevating	R. Fölsche	619,882	Feb. 21	2017	458, 459	86	1246
Grain, &c. Apparatus for separating or sorting	A. Boguszewski	627,970	July 4	21	4	88	6
Grain, &c. Automatic sampling apparatus for	C. Geissler	632,713	Sept. 12	967	224	88	1913
Grain-bin	D. A. Robinson and M. Toltz	638,280	Dec. 5	159	36	89	1897
Grain-bin subdivision	D. A. Robinson	638,279	Dec. 5	156	35	89	1896
Grain-binder	H. J. Case	631,456	Aug. 22	3205	727, 728	88	1405
Grain-binder butter	J. E. Mustard	635,967	Oct. 31	3737	864	89	795
Grain-binder cord knotting and holding device	W. Butterfield	628,071	July 4	206	46,47	88	41
Grain-binder knotting device	C. A. A. Rand	629,522	July 25	2942	684, 685	88	628
Grain-binder tripping mechanism	C. C. Breuscher	630,853	Aug. 15	2105	477	88	1171
Grain-bundle shocker. Automatic	J. E. and O. A. French	626,653	June 6	783	178, 179, 180	87	1766
Grain-cleaner	T. M. Bales	635,223	Oct. 17	2303	537	89	488
Grain-cleaner	G. Wellington	629,407	July 25	2709	630	88	584
Grain-cleaners. Shake-regulator for	R. G. Williams	631,492	Aug. 22	3278	746	88	1420
Grain-cleaning machine	N. Brooker	632,637	Sept. 5	772	177, 178	88	1860
Grain-dampener	W. J. En Earl	631,625	Aug. 22	3523	794	88	1469
Grain-dislodging device	H. E. Koch	617,488	Jan. 10	1195	272	86	252
Grain-drier	H. W. Cutler	640,107	Dec. 26	3541	814	89	2619
Grain-drier	W. E. Ellis	620,432	Feb. 28	2966	680	86	1441
Grain-drier	C. Mallinson	624,515	May 9	1052	237	87	926
Grain-drier	J. McDaniel	622,521	Apr. 4	613	144	87	116
Grain-drier	G. Schock	625,358	May 23	2566	584, 585	87	1260
Grain-drier	M. Sorlle and H. J. Bailey	633,221	Sept. 19	1940	456	88	2116
Grain drier or steamer	R. Dempster	626,148	May 30	4089	932	87	1568
Grain drying and cooling apparatus	G. H. Hess, Jr	618,508	Jan. 31	3158	697, 698	86	677
Grain-drying apparatus	J. Senior, R. Bury, and H. M. Walker	617,816	Jan. 17	1836	410	86	397
Grain-drying apparatus	W. Tweedale and W. L. Harvey	638,429	Dec. 5	467	95	89	1955
Grain-drill	E. Baseman	626,822	June 13	1109	249	87	1846
Grain-drill	G. W. Denyes and O. Schutt	637,767	Nov. 28	3312	693	89	1677
Grain-drill	H. E. and W. B. Hassenplug	633,196	Sept. 19	1872	441	88	2102
Grain-drill	L. L. Haworth	633,960	Sept. 26	3278	764	88	2392
Grain-drill	W. F. Hoyt	629,859	Aug. 1	193	44	88	758
Grain-drill	G. W. Kirkpatrick	617,102	Jan. 3	466	112	86	92
Grain-drill	W. A. Morgan	639,754	Dec. 26	2901	668, 669	89	2490
Grain-drill	J. E. Ricklefs	620,181	Feb. 28	2525	574	86	1358
Grain-drill	J. Rodenberger	627,830	June 27	3006	657	87	2257
Grain-drill register	W. Bills	627,381	June 20	2173	477	87	2077
Grain-drill shoe	T. Brennan	626,803	June 13	1074	242	87	1841
Grain-drill shoe	T. Brennan and E. Christman. (Reissue.)	11,720	Feb. 28	3204	734	86	1486
Grain-drill shoe	G. W. Denyes and O. Schutt	635,752	Oct. 31	3327	769	89	716
Grain-elevator	G. B. Mallory	635,561	Oct. 24	2963	678, 679, 680, 681	89	632
Grain-elevator	W. P. Wright	617,385	Jan. 10	1011	231, 232	86	216
Grain-header	J. C. Lynch	635,264	Oct. 17	2363	552	89	499
Grain hulling and polishing machine	A. B. Couch	629,547	July 25	2972	694	88	635

Alphabetical list of inventions—Continued.

Invention.	Name.	No.	Date.	Monthly volume.		Official Gazette.	
				Spec.	Dr'g.	Vol.	Page.
Grain-loader	M. L. Page	620,492	Feb. 28	3059	699, 700	86	1458
Grain-loading machine	J. E. Cowles and C. W. Andridge	627,906	June 27	3149	688	87	2287
Grain-meter	E. A. Crum	626,975	June 13	1416	313	87	1907
Grain or hay. Cover or roof for protecting	J. B. Deems	621,798	Mar. 28	2347	526	86	1996
Grain or seed recleaner and grader	A. D. Ferguson	621,912	Mar. 28	2565	578	86	2039
Grain-roller	E. Berg	635,642	Oct. 24	3112	715	89	662
Grain-scourer	H. Heinrich	635,480	Oct. 24	2829	645	89	607
Grain-scourer	F. Holtzhausen	622,802	Apr. 11	1110	257	87	230
Grain-scourer	F. A. McLellan	638,743	Dec. 12	1056	237	89	2092
Grain scourer and conveyer	J. B. Cornwall	635,748	Oct. 31	3319	766, 767	89	715
Grain-scouring machine	C. H. Bidwell	632,831	Sept. 12	1190	271	88	1959
Grain-separator	C. E. Bird	626,746	June 13	962	218	87	1819
Grain-separator	B. Holt	617,486	Jan. 10	1193	271	86	251
Grain-separator	H. E. Koch	626,705	June 13	897	204	87	1806
Grain-separator	J. H. Sturgeon	626,818	June 13	1101	247, 248	87	1845
Grain separator and cleaner	A. W. Walker	639,117	Dec. 12	1704	393	89	2219
Grain-shocking mechanism	A. P. Phillips	620,249	Feb. 28	2655	605, 606, 607	86	1381
Grain-shovels. Brush attachment for power	F. Kaucher	634,578	Oct. 10	1138	270	89	244
Grain-spout	G. H. Birchard	639,506	Dec. 19	2431	562	89	2378
Grain-steeping trough or cistern	F. Knüttel	622,051	Mar. 28	2815	635	86	2087
Grain-trimming device	T. J. Skillin	619,799	Feb. 21	1866	425	86	1217
Grain-valve	L. M. Walker	624,712	May 9	1398	312	87	994
Grainer. Wood-	E. D. Gochnaur	619,298	Feb. 14	952	216	86	1015
Gramophone, &c	E. Berliner	637,197	Nov. 14	1885	405	89	1322
Gramophone	P. H. Holm	629,963	Aug. 1	442	95	88	810
Gramophone	T. S. Parvin	625,957	May 30	3657	830	87	1490
Gramophone. Automatic	L. P. Valiquet	631,912	Aug. 29	4035	904, 905	88	1578
Gramophone sound-box	E. Berliner	637,196	Nov. 14	1882	405	89	1322
Grapbite articles. Manufacturing	E. G. Acheson	617,979	Jan. 17	2126	------	86	454
Graphophone	I. Andion	620,823	Mar. 7	528	112	86	1605
Graphophone	C. G. Conn	624,301	May 2	660	144	87	826
Graphophone	G. L. Hogan	632,015	Aug. 29	4227	951	88	1615
Graphophone	G. T. Smallwood	639,452	Dec. 19	2345	541	89	2360
Graphophone	D. S. Williams	619,916	Feb. 21	2066	468, 469	86	1255
Graphophone-blanks. Making	T. H. Macdonald	626,709	June 13	908	------	87	1807
Graphophone. Coin-controlled	T. H. Macdonald	621,834	Mar. 28	2409	538	86	2008
Graphophone-cylinders. Holder or support for	F. B. Horton	637,933	Nov. 28	3630	761	89	1743
Graphophone-mandrel	R. Wolf	629,534	July 25	2957	689	88	632
Graphophone recording-styles. Machine for making	T. H. Macdonald	628,544	July 11	1117	261	88	235
Graphophone-reproducers. Lifting mechanism for	T. H. Macdonald	636,822	Nov. 14	1126	241	89	1176
Graphophone sound-reproducer	T. H. Macdonald	624,059	May 2	200	44	87	741
Graphophones, &c. Case or holder for records of	J. G. Pizagno and G. A. Bisler	628,163	July 4	385	91	88	78
Graphophones, &c. Trumpet for	J. W. Kemp	621,821	Mar. 28	2387	534	86	2004
Grapple	A. N. Reimer and W. A. Olsen	635,146	Oct. 17	2174	507	89	464
Grass-cutter	C. Kieser	634,946	Oct. 17	1770	420	89	384
Grass-cutter	W. S. Scales	639,619	Dec. 19	2636	605	89	2419
Grate	S. H. Alsip	633,332	Sept. 19	2155	504	88	2158
Grate	W. Black	626,963	June 13	1399	308	87	1903
Grate	R. Goll	634,886	Oct. 17	1677	395	89	366
Grate	G. A. Long	634,694	Oct. 10	1332	315	89	282
Grate	J. Reagan	635,807	Oct. 31	3429	791	89	737
Grate	R. J. Schwab	635,400	Oct. 24	2648	611	89	572
Grate attachment	W. I. Bagley	618,766	Jan. 31	3607	806	86	765
Grate-bar	J. Reagan	635,808	Oct. 31	3430	792	89	737
Grate-bar	D. S. Richardson	622,077	Mar. 28	2853	643	86	2095
Grate-bar	W. W. Wile	635,989	Oct. 31	3797	874	89	809
Grate-bar. Hollow	G. S. Lee	626,657	June 6	792	181	87	1768
Grate. Basket-	F. H. Fielder	628,402	July 4	846	198	88	162
Grate. Centripetal fire-	C. C. Longard	629,797	Aug. 1	63	16	88	733
Grate-closer	A. H. Tharp	622,565	Apr. 4	686	159	87	130
Grate for cooking apparatus. Fire-	J. H. Goodfellow	630,807	Aug. 8	2023	456	88	1132
Grate for heating systems, &c	H. K. Ernsberger	625,659	May 23	3082	701	87	1361
Grate. Interchangeable coal and gas	E. C. Horst	620,709	Mar. 7	316	64, 65	86	1563
Grate-operating mechanism	J. A. Kline	631,746	Aug. 22	3747	841	88	1510
Grate. Rocking	W. R. Park	638,355	Dec. 5	324	68	89	1928
Grate. Sectional	W. M. Earl	621,046	Mar. 14	974	212	86	1702
Grate. Shaking-	F. Berkemeyer	626,136	May 30	4069	928	87	1564
Grate. Stoking-	H. Benton	638,659	Dec. 5	880	192, 193	89	2037
Grates. Chopper or agitator for shaking-	J. Reagan. (Reissue)	11,725	Mar. 14	1450	321	86	1795
Grates. Means for removing	H. P. Cope	624,185	May 2	443	92	87	785
Grater	M. D. Keefe	619,489	Feb. 14	1273	292	86	1078
Grater for nutmegs, &c	R. Frick	633,188	Sept. 19	1860	438	88	2100
Grater. Nutmeg-	J. B. Baily	630,313	Aug. 8	1089	238	88	952
Grater. Soap-	J. L. Ryan	630,413	Aug. 8	1326	298	88	995
Grating or shaving machine. Food	A. S. Adam	623,646	Apr. 25	2663	609, 610	87	567
Grating. Protective illuminative	C. E. Manning	620,471	Feb. 28	3028	692	86	1453
Grave-cover	H. D. Cameron	616,894	Jan. 3	55	11	86	13
Grave-filling machine	J. Paugh, A G. and J. W. Harris	623,419	Apr. 18	2257	517	87	471
Graves. Receptacle used in constructing	H. D. Cameron	639,210	Dec. 19	1880	433, 434	89	2265
Gravity-machine	W. H. Hawkes	625,674	May 23	3102	706	87	1365
Gravity-motor	J. A. Workman	639,803	Dec. 26	2998	690	89	2510
Gravity-motor. Oscillating	W. L. Harvey	620,032	Feb. 21	2271	515	86	1294
Gravity separator and conveyer. Combined	T. J. Barbour	624,612	May 9	1224	275	87	960
Grease-cup	J. Trix	632,480	Sept. 5	492	112	88	1804
Grease-trap	H. Sieben	617,057	Jan. 3	388	95	86	75
Grinder. Chiller-	A. Basener	639,701	Dec. 26	2802	646	89	2469

Alphabetical list of inventions—Continued.

Invention.	Name.	No.	Date.	Monthly volume. Spec.	Monthly volume. Dr'g.	Official Gazette. Vol.	Official Gazette. Page.
Grinder. Chiller-	E. F. Gannon	639,723	Dec. 26	2839	654	89	2478
Grinder. Drill-	A. C. Gruher	635,999	Oct. 31	3815	877	89	812
Grinder. Machine-sickle	E. V. Green	630,687	Aug. 8	1825	412	88	1090
Grinder. Mower-knife	G. H. Fowler	629,069	July 18	2090	487	88	444
Grinder. Mowing-machine-sickle	E. V. Green	630,688	Aug. 8	1827	412	88	1091
Grinder. Multiple metal-	C. E. Blechschmidt	635,292	Oct. 24	2428	566	89	529
Grinder. Sickle-	J. Macphail	629,798	Aug. 1	65	16.17	88	733
Grinder. Sickle-	A. L. Reiner	637,946	Nov. 28	3646	765	89	1746
Grinder. Twist-drill	R. Dutton	622,212	Apr. 4	28	6,7	87	8
Grinding and polishing apparatus	W. L. Kann	623,788	Apr. 25	2942	672	87	621
Grinding and polishing device	F. N. Gardner	623,897	Apr. 25	3144	724	87	660
Grinding and sharpening machine	T. Patton	637,022	Nov. 14	1531	329, 330	89	1256
Grinding attachment. Lawn-mower	W. N. Maynard	627,863	June 27	3067	670	87	2269
Grinding chilled rolls. Machine for	A. L. Kelly	623,314	Apr. 18	2068	474, 475	87	433
Grinding, crushing, or pulverizing mill	H. Walker and W. Johnson	624,136	May 2	351	72, 73	87	767
Grinding-machine	H. W. Bolens	636,192	Oct. 31	4197	964	89	889
Grinding-machine	T. Delahay	630,451	Aug. 8	1401	313	88	1010
Grinding-machine	G. Diaz	635,753	Oct. 31	3328	769	89	717
Grinding-machine	J. Gilson	621,810	Mar. 28	2366	529	86	2000
Grinding-machine	J. Gilson	628,623	July 11	1270	295	88	266
Grinding-machine	E. Mills	626,436	June 6	408	96, 97	87	1692
Grinding-machine	M. W. Neuens and J. J. Hoeller, Jr.	623,683	Apr. 25	2727	625	87	580
Grinding-machine	C. H. Norton	626,337	June 6	217	53	87	1654
Grinding-machine	B. Post and R. Goehring	624,086	May 2	249	52, 53	87	749
Grinding-machine	D. S. Thompson	621,181	Mar. 14	1204	263	86	1748
Grinding-machine	E. Werner	638,431	Dec. 5	470	96	89	1956
Grinding machine. Ball-	H. L. Gantt	618,502	Jan. 31	3146	695	86	675
Grinding machine. Ball-	C. C. Hill	624,032	May 2	150	33	87	731
Grinding machine. Ball-	H. T. Morse	620,851	Mar. 7	585	127	86	1617
Grinding-machine carriage-operating mechanism	A. B. Landis	630,900	Dec. 26	3159	727, 728	89	2540
Grinding machine. Cutlery-	T. J. Tellefsen	638,204	Nov. 28	4157	878	89	1847
Grinding machine. Cutlery-	T. J. Tellefsen	638,205	Nov. 28	4159	878, 879	89	1848
Grinding machine. Drill-	L. S. and J. N. Heald	630,536	Aug. 8	1563	348, 349	88	1040
Grinding-machine emery-wheel truer	A. B. Landis	639,901	Dec. 26	3162	728	89	2541
Grinding-machine for surfaces of revolution of conic sections.	F. Nerz	637,476	Nov. 21	2408	522	89	1442
Grinding machine. Knife-	G. F. Ballou	621,204	Mar. 14	1242	274	86	1755
Grinding machine. Mower-knife-	F. Radford	625,414	May 23	2657	604	87	1278
Grinding machine. Tool-	A. Van Dillenbeck	639,636	Dec. 19	2669	612	89	2427
Grinding-mill	A. F. Davis	619,012	Feb. 7	413	86, 87	86	890
Grinding-mill	W. F. Davis	622,914	Apr. 11	1315	303	87	268
Grinding-mill	W. F. Davis	637,957	Nov. 28	3669	770, 771	89	1751
Grinding-mill	W. F. Davis	637,958	Nov. 28	3672	771	89	1751
Grinding-mill	W. F. Davis and T. Cascaden, Jr.	622,915	Apr. 11	1318	303, 304	87	269
Grinding-mill	W. F. Davis and T. Cascaden, Jr.	622,916	Apr. 11	1321	304	87	269
Grinding-mill	E. R. Draver	636,121	Oct. 31	4073	931, 932	89	863
Grinding-mill	H. Kelly	619,892	Feb. 21	2031	461	86	1249
Grinding-mill	J. E. Mitchell	617,345	Jan. 10	934	215, 216	86	201
Grinding-mill	J. M. Schutz	619,354	Feb. 14	1039	233	86	1033
Grinding-mill	T. L. and T. J. Sturtevant	630,574	Aug. 8	1628	363, 364	88	1053
Grinding-mill	T. L. and T. J. Sturtevant	636,469	Nov. 7	404	90	89	1002
Grinding-mill	A. G. Wells	624,139	May 2	355	73, 74	87	768
Grinding-mill	O. J. Ziegler	634,052	Oct. 3	118	30	89	27
Grinding-mill	O. J. Ziegler	634,053	Oct. 3	120	31	89	27
Grinding-mill thrust-hearing	J. H. Gunn	628,314	July 4	701	162	88	134
Grinding-mill tram. Roller-	D. M. Carey	635,528	Oct. 24	2907	664	89	623
Grinding mowing-machine cutter-bars. Machine for	A. S. Robinson	639,774	Dec. 26	2942	677	89	2498
Grinding or corrugating machine	F. W. Wright	618,312	Jan. 24	2774	615	86	590
Grinding or polishing knife-blades, razors, &c. Machine for	C. F. Ern	616,909	Jan. 3	83	17	86	18
Grinding or polishing machine	E. Rivett	623,742	Apr. 25	2815	645	87	596
Grinding, polishing, or buffing machine	J. Koenig	633,722	Sept. 26	2876	668	88	2311
Grinding, polishing, or buffing machine	J. Koenig	639,742	Dec. 26	2879	663	89	2486
Grinding process. Grain-	P. and H. Theiss	637,837	Nov. 28	3444	719	89	1706
Grinding-stone hanger	F. M. Bird	626,962	June 13	1898	308	87	1903
Grinding surfaces of metals. Machine for	G. W. Packer	633,895	Sept. 26	3160	733, 734	88	2369
Grinding-wheel	U. Eherhardt	622,886	Apr. 11	1275	294	87	260
Grinding-wheel water-feeding device	G. J. Ridley	618,293	Jan. 24	2742	607	86	584
Grindstone	G. W. Jones	628,715	July 11	1452	337	88	302
Grindstone tool-holder	R. W. Anderson	633,543	Sept. 19	2517	591	88	2220
Grip	R. G. Lockwood	631,648	Aug. 22	3562	803	88	1477
Grip-brake. Automatic	H. Rahe	633,485	Sept. 19	2419	509	88	2208
Gripping device or carrier	J. Hormby	629,997	Aug. 1	509	111, 112	88	824
Grizzlies or separators. Drive mechanism for rotary	R. H. Postlethwaite	625,274	May 16	2407	545	87	1203
Grizzly or separator. Rotary	R. H. Postlethwaite	619,341	Feb. 14	1014	229	86	1028
Grocer's hin	G. Lang	631,508	Aug. 22	3310	752	88	1426
Gromet	B. L. Andrus	624,150	May 2	390	79	87	774
Gromet or eyelet	R. M. Popham	629,754	July 25	3347	781	88	706
Groove-cutting machine	J. B. Durst	638,450	Dec. 5	505	102, 103	89	1963
Grooves or heads on small metallic articles. Machine for forming annular	G. H. Evans	638,867	Dec. 12	1267	287, 288	89	2132

Alphabetical list of inventions—Continued.

Invention.	Name.	No.	Date.	Monthly volume. Spec.	Monthly volume. Dr'g.	Official Gazette. Vol.	Official Gazette. Page.
Ground-detector	E. M. Hewlett	625,763	May 30	3283	743	87	1418
Ground laying and pulverizing implement	E. M. Cox and J. S. Grange	625,646	May 23	3061	697	87	1357
Grubbing-machine	J. Bloodgood and J. G. O'Donnell	638,169	Nov. 28	4088	862	89	1831
Guard-finger	J. C. Shanks	623,112	Apr. 11	1694	391	87	343
Guard-rail	W. Morrisey	635,144	Oct. 17	2171	506	89	463
Guarded can and can-guard	H. Bitner	630,443	Aug. 8	1382	310	88	1006
Gudgeons in wooden rollers. Securing metal	F. F. Hoehne	624,212	May 2	487	105	87	793
Guitar	P. Ritter	636,850	Nov. 14	1174	354	89	1186
Guitar and mandolin. Combined	J. Englund	616,908	Jan. 3	82	16	86	18
Guitar-bridge	A. Olson	621,700	Mar. 21	2146	478	86	1943
Guitar support and player	M. G. Miller	637,273	Nov. 21	2022	433, 434	89	1364
Guitars. Adjustable string-clamp or capo tasto for	C. M. Averitt	620,560	Mar. 7	4	1	86	1503
Gully-trap for drains	J. Brightmore	632,396	Sept. 5	341	77	88	1774
Gum for varnishes, &c	E. M. Beck	627,453	June 20	2314	------	87	2103
Gum. Synthetic adhesive	E. B. Cunningham and F. C. Thiele	637,090	Nov. 14	1653	------	89	1279
Gums for varnishes, &c. Manufacturing	E. M. Beck	627,452	June 20	2312	------	87	2103
Gun	T. W. Just	638,464	Dec. 5	539	110	89	1970
Gun	M. C. Rocquin	629,209	July 18	2344	543, 544	88	492
Gun. Air-	C. J. Hamilton	631,010	Aug. 15	2394	544	88	1227
Gun. Automatic	A. Burgess	636,196	Oct. 31	4204	966	89	890
Gun. Automatic	G. Hookham	621,085	Mar. 14	1033	226, 227	86	1713
Gun. Automatic machine	F. M. Garland	623,003	Apr. 11	1473	340, 341, 342	87	300
Gun. Automatic machine	F. M. Garland	636,977	Nov. 14	1435	308, 309, 310	89	1237
Gun-barrel	L. Peterson	618,901	Feb. 7	143	31	86	833
Gun-barrel-cleaning device	D. Scott	621,857	Mar. 28	2450	546, 547	86	2017
Gun-barrel. Supplemental	H. B. Gillette	631,399	Aug. 22	3106	704	88	1385
Gun-barrels. Device for removing dents from	H. H. Hotz	621,675	Mar. 21	2107	470	86	1936
Gun. Blow-	A. G. Jacobs	632,838	Sept. 12	1199	273	88	1961
Gun. Bolt-	T. G. Bennett	632,090	Aug. 29	4369	982	88	1642
Gun. Bolt-	J. M. Browning	632,094	Aug. 29	4376	983, 984	88	1644
Gun brake device	E. Müller	635,573	Oct. 24	2988	685, 686	89	637
Gun breech-closing mechanism	C. Pohlit	621,581	Mar. 21	1925	430	86	1899
Gun. Breech-loading	W. S. Sims	619,025	Feb. 7	438	92	86	895
Gun breech mechanism	A. G. Hadcock and S. M. Murray	634,238	Oct. 3	493	124, 125, 126, 127	89	100
Gun breech mechanism	W. S. Sims	619,026	Feb. 7	439	92, 93	86	895
Gun breech mechanism	J. W. Stockett	620,259	Feb. 28	2676	614	86	1385
Gun. Cane-	E. H. Ericson	628,142	July 4	349	83	88	71
Gun-carriage	W. H. Bevans	638,313	Dec. 5	238	49, 50	89	1912
Gun-carriage	M. Darmancier and A. Dalzon	630,188	Aug. 1	854	183	88	891
Gun-carriage	A. Resow	620,359	Feb. 28	2852	652	86	1419
Gun-carriage	A. Resow	620,360	Feb. 28	2853	652, 653	86	1419
Gun-carriage	A. Resow	621,286	Mar. 14	1396	310	86	1785
Gun carriage. Field-	A. Resow	633,367	Sept. 19	2216	520	88	2169
Gun carriage. Field-	A. Resow and O. Lauber	620,802	Mar. 7	489	103	86	1597
Gun-carriages. Recoil-brake for	M. Darmancier and A. Dalzon	631,201	Aug. 15	2731	619	88	1294
Gun-carriages. Recoil-spring brake for	A. Resow	621,585	Mar. 21	1929	431, 432	86	1900
Gun choke-bore attachment	R. P. Cory	633,428	Sept. 19	2327	548	88	2191
Gun converter. Shot-	C. Trossy, femme Granetias	626,351	June 6	250	58	87	1662
Gun firing-brake	A. Resow and O. Behnke	633,366	Sept. 19	2215	520	88	2169
Gun firing mechanism	B. E. Pease	622,258	Apr. 4	98	22	87	22
Gun fluid-brake	J. Krone	635,557	Oct. 24	2957	677	89	631
Gun. Gas-operated machine-	L. Silverman	618,743	Jan. 31	3570	797, 798	86	757
Gun. Machine-	E. M. Capps	632,098	Aug. 29	4384	984, 985	88	1645
Gun. Magazine-	A. Alfson	638,677	Dec. 5	933	208, 209	89	2049
Gun. Magazine-	A. Wilson	618,369	Jan. 24	2871	637	86	608
Gun-magazine	J. P. Lee	627,824	June 27	2996	655	87	2255
Gun. Magazine bolt-	B. Burton	622,443	Apr. 4	436	101, 102	87	81
Gun. Magazine bolt-	J. Hylard	623,475	Apr. 18	2351	540, 541	87	491
Gun. Magazine bolt-	D. D. Miles	618,116	Jan. 24	2403	536, 537	86	521
Gun. Magazine bolt-	G. L. Putnam	623,960	Apr. 25	3257	749	87	681
Gun. Magazine target-	J. L. McCullough	626,501	June 6	527	121, 122	87	1716
Gun-mount	P. Borger	632,634	Sept. 5	759	175	88	1857
Gun-mount	A. F. Warren	638,857	Dec. 12	1246	281	89	2128
Gun-mounts. Recoil mechanism for	J. F. Meigs and R. P. Stout	632,134	Aug. 29	4462	1004	88	1662
Gun-mounts. Swivel-pivot and its bearing for	J. J. Clarke	634,261	Oct. 3	551	137	89	110
Gun mounting. Machine-	G. T. Buckham and C. A. Larsson	634,390	Oct. 3	794	191, 192	89	157
Gun rammer. Breech-loading-	W. H. Bevans	625,240	May 16	2339	533	87	1192
Gun. Rapid-firing	C. Funke	623,895	Apr. 25	3142	723, 724	87	659
Gun. Recoil-operated	W. H. Driggs and V. C. Tasker	625,326	May 23	2510	570, 571	87	1250
Gun safety locking device	C. Pohlit	624,680	May 9	1336	298	87	982
Gun-sight attachment	D. H. Darling	638,007	Nov. 28	3776	793, 794	89	1771

Alphabetical list of inventions—Continued.

Invention.	Name.	No.	Date.	Monthly volume. Spec.	Monthly volume. Dr'g.	Official Gazette. Vol.	Official Gazette. Page.
Gun-sight screen	T. Gilbert-Russell	621,066	Mar. 14	1001	217, 218, 219	86	1707
Gun. Spring air-	M. F. Stanley	627,764	June 27	2889	631	87	2235
Gun. Spring spear-	W. H. McWhirter	635,386	Oct. 24	2626	606	89	567
Gun telescope attachment	H. A. von Kretschmar and J. Vollmer.	635,102	Oct. 17	2081	490	89	447
Gun. Wire-wound	H. P. Hurst	618,036	Jan. 17	2239	498, 499	86	474
Guns. Ammunition conveyer or rammer for	G. A. Schoeller	631,999	Aug. 29	4198	945	88	1608
Guns. Apparatus for adjusting elevation of	J. Krone	639,407	Dec. 19	2261	521, 522	89	2343
Guns. Automatic operating mechanism for machine-	F. M. Garland	636,974	Nov. 14	1428	306	89	1235
Guns. Breech mechanism for quick-firing	F. F. Fletcher	627,913	June 27	3158	691, 692	87	2290
Guns. Breech mechanism for quick-firing	E. Ternström	617,614	Jan. 10	1430	326, 327	86	297
Guns. Breech mechanism for rapid-fire	F. F. Fletcher	629,673	July 25	3195	744, 745	88	677
Guns. Breech mechanism for rapid-fire	A. F. Warren	638,858	Dec. 12	1247	281, 282	89	2129
Guns. Cartridge-ejector for	C. H. Wayman	631,349	Aug. 22	3010	683	88	1367
Guns. Ejecting mechanism for breakdown	G. D. Potter	625,601	May 23	2978	676, 677	87	1341
Guns. Extracting mechanism for breech-loading	A. T. Dawson and G. T. Buckham	630,192	Aug. 1	860	185	88	892
Guns. Extractor mechanism for breakdown	W. H. Davenport	638,322	Dec. 5	254	53	89	1915
Guns. Firing and extracting mechanism for breech-loading	A. T. Dawson and G. T. Buckham	629,551	July 25	2977	695	88	636
Guns. Firing-lock for breech-loading	C. Pohlit	623,824	Apr. 25	3000	687, 688	87	633
Guns. Grip for straight-pull	A. S. Fitch	624,317	May 2	690	152	87	832
Guns. Horizontal-wedge breech-closing mechanism for	C. Pohlit	629,170	July 18	2280	529, 530	88	480
Guns on shipboard. Apparatus for steadying	B. Tower	640,051	Dec. 26	3435	789, 790	89	2597
Guns. Means for firing	J. A., F. E., and M. E. Normand	630,095	Aug. 1	698	150	88	861
Guns. Means for pointing	D. Froissart	630,211	Aug. 1	887	192, 193, 194, 195	88	898
Guns of war-ships. Apparatus for automatically discharging	J. A. Rowe	629,819	Aug. 1	108	26	88	741
Guns on board ship. Means for use in working quick-firing	J. A., F. E., and M. E. Normand	628,840	July 11	1675	391	88	347
Guns or ordnance. Gear for back-sights of	C. Pohlit	621,133	Mar. 14	1133	245, 246	86	1733
Guns or rifles. Hook-carrier for sporting	L. H. Sibthorpe	636,295	Nov. 7	123	27	89	946
Guns. Recoil mechanism for automatic machine-	A. T. Dawson and L. Silverman	638,045	Nov. 28	3841	807	89	1784
Guns. Percussion-lock for breech-loading	C. Pohlit	619,218	Feb. 7	795	173	86	968
Guns. Percussion-lock for breech-loading	C. Pohlit	620,354	Feb. 28	2841	650	86	1417
Guns. Regulating device for automatic machine-	F. M. Garland	636,976	Nov. 14	1434	307, 308	89	1236
Guns. Safety-lock for breech-loading	J. L. Ackerman	633,939	Sept. 26	3227	752	88	2382
Guns. Sight mechanism for disappearing	C. F. Jeansén	626,909	June 13	1313	289	87	1887
Guns. Speed-controlling device for automatic machine-	F. M. Garland	636,975	Nov. 14	1431	307	89	1236
Guns to loading position. Apparatus for raising charges for breech-loading	A. T. Dawson and G. T. Buckham	633,816	Sept. 26	3023	702, 703	88	2342
Guns. Worm-gear for training	A. T. Dawson and G. T. Buckham	640,110	Dec. 26	3546	815	89	2620
Guncotton. Hydraulic conveyer for	J. Selwig	638,647	Dec. 5	863	188	89	2032
Gutter-stay and hanger-strap	J. H. Horan	626,757	June 13	983	222	87	1823
Gynecological stirrup	J. A. Steurer	620,194	Feb. 28	2564	583	86	1363
Gyrator	S. A. Oyer	620,048	Feb. 21	2302	522, 523	86	1300
Hack-clamp	J. G. B. Rouse	622,081	Mar. 28	2858	644	86	2096
Hackling and ending flax. Machine for	R. W. Knox	625,036	May 16	1979	442	87	1125
Hair-crimper	M. Fischhaber	629,157	July 18	2259	523	88	477
Hair-crimper	F. W. Schroeder	638,031	Nov. 28	3825	804	89	1781
Hair-crimper	M. E. Thompson	619,805	Feb. 21	1875	427	86	1219
Hair-crimper	N. Whelan	618,630	Jan. 31	3370	751	86	717
Hair-cutter	J. E. Ferland	625,102	May 16	2114	480	87	1149
Hair-cutting apparatus	C. Hasch	628,002	July 4	85	17	88	18
Hair. Device for promoting growth of	C. A. O. Rosell	624,545	May 9	1110	250	87	937
Hair-drier. Lady's	J. W. Hillerman and N. Rossi	623,153	Apr. 18	1785	410	87	376
Hair-drying comb	W. Hotze	633,457	Sept. 19	2374	559	88	2200
Hair. Dyeing	J. C. Boot	629,231	July 18	2373	----	88	498
Hair-fastener	A. L. Bates	628,596	July 11	1209	283	88	253
Hair-fastener	N. W. Rasnick	621,705	Mar. 21	2156	480	86	1946
Hair. Machine for picking curled	E. Beers	618,023	Jan. 17	2208	493	86	469
Hair-picker	J. W. Haines	630,606	Aug. 8	1684	379	88	1065
Hair-picking machine	E. Beers	636,619	Nov. 7	696	151	89	1063
Hair-pin	C. M. Dissosway	622,039	Mar. 28	2799	631	86	2084
Hair-pin	K. Holm	637,510	Nov. 21	2468	535	89	1453
Hair-pin	D. W. Irvin	628,664	July 11	1370	319	88	284
Hair-retaining comb. Lady's-	R. F. Tochtermann	622,568	Apr. 4	689	160	87	131
Hair-trimming device	M. McCarter	628,722	July 11	1462	340	88	305
Half-tone plate and making it	G. W. A. Abelmann	639,207	Dec. 19	1875	433	89	2265
Halter-fastener	G. Smith	619,629	Feb. 14	1512	345	86	1123
Halter-grip	G. A. Stanton	638,995	Dec. 12	1509	346	89	2180
Ham-wrapper	J. Bimm	635,840	Oct. 31	3501	804	89	751
Ham-wrapper	W. E. T. Merrill and A. Lepper	624,839	May 9	1643	371	87	1042
Hame and trace connection	J. J. Creedon	617,498	Jan. 10	1208	275	86	235
Hame and trace connection	J. L. Peavy and W. D. Dickson	623,103	Apr. 11	1673	387	87	339
Hame and trace connector	R. Dodson	632,551	Sept. 5	641	149	88	1833
Hame and trace connector	A. E. Hall	628,221	July 4	483	116	88	97
Hame and trace connector	J. Swigert	640,047	Dec. 26	3429	788	89	2596

Alphabetical list of inventions—Continued.

Invention.	Name.	No.	Date.	Monthly volume. Spec.	Monthly volume. Dr'g.	Official Gazette. Vol.	Official Gazette. Page.
Hame and trace coupling	S. H. Swearingen	633,401	Sept. 19	2281	537	88	2181
Hame attachment	J. Gallogly	626,784	June 13	1046	235	87	1836
Hame attachment	J. Goeller	619,825	Feb. 21	1899	433	86	1223
Hame-fastener	I. Abell	633,256	Sept. 19	2003	470	88	2128
Hame-fastener	J. H. Cutliff	639,535	Dec. 19	2479	572	89	2387
Hame-fastener	J. H. Hill	639,982	Dec. 26	3322	761	89	2575
Hame-fastener	F. N. Rankin	631,669	Aug. 22	3594	810	88	1484
Hame-fastener	H. M. Sheer	632,084	Mar. 28	2863	645	86	2097
Hame-fastener	A. Ward	619,812	Feb. 21	1882	429	86	1220
Hame-hook	W. W. Adkins	636,096	Oct. 31	4026	922	89	853
Hame-strap	H. G. Spraker	618,745	Jan. 31	3578	798	86	759
Hames and collar. Combined	H. C. Alexander	632,164	Aug. 29	4512	1015	88	1672
Hammer	A. Ahern and J. A. Martin	624,720	May 9	1410	316	87	996
Hammer	L. B. Knight	638,341	Dec. 5	291	60	89	1922
Hammer	J. E. Lenhult	636,386	Nov. 7	271	61	89	975
Hammer	W. H. Penny	619,608	Feb. 14	1470	336	86	1115
Hammer	C. I. Yonge	623,455	Apr. 18	2317	531	87	484
Hammer and nail-extractor. Combination	C. E. Perry	632,227	Aug. 29	4629	1043	88	1693
Hammer cushion-coupling. Trip	L. Mayer	619,048	Feb. 7	476	99	86	903
Hammer. Drop	J. A. Horton	632,265	Sept. 5	103	22,23	88	1727
Hammer. Drop	G. Rowbottom and D. C. Griggs	624,101	May 2	288	60	87	756
Hammer. Electric	J. Anderson	631,769	Aug. 29	3802	847	88	1532
Hammer. Foot-operated	F. Dowling	640,114	Dec. 26	3553	817	89	2622
Hammer. Foot-power	W. U. Burgett	625,870	May 30	3498	792	87	1459
Hammer hand-sling	H. H. Schepers	625,469	May 23	2752	626	87	1295
Hammer. Lasting	A. Hebert	620,650	Mar. 7	203	42	86	1541
Hammer. Magazine tack	L. W. Sammis	630,116	Aug. 1	730	157	88	868
Hammer. Magazine tack	J. P. Van Derveer	626,012	May 30	3804	865	87	1518
Hammer. Mining	F. R. Waters	624,883	May 9	1717	389	87	1057
Hammer-operating means. Drop	F. A. Pratt	627,349	June 20	2095	463	87	2061
Hammer-operating mechanism. Drop	F. A. Pratt	627,350	June 20	2097	463	87	2061
Hammer or riveter. Pneumatic	F. A. Kirby	639,739	Dec. 26	2874	662	89	2485
Hammer. Pneumatic	R. Burns and C. K. Pickles	635,422	Oct. 24	2719	624	89	586
Hammer. Pneumatic	E. Gunnell	632,261	Sept. 5	95	21	88	1725
Hammer. Pneumatic	E. Gunnell	632,262	Sept. 5	98	21	88	1726
Hammer. Pneumatic	E. C. Meissner	626,497	June 6	519	120	87	1714
Hammer. Pneumatic	C. K. Pickles	630,818	Aug. 8	2041	461	88	1135
Hammer. Pneumatic	C. K. Pickles	631,435	Aug. 22	3172	720	88	1399
Hammer. Portable pneumatic	C. H. Johnson	618,100	Jan. 24	2376	531	86	516
Hammer. Power	A. Dinkel	620,749	Mar. 7	405	83	86	1580
Hammer. Power	H. G. Dittbenner	639,538	Dec. 19	2484	573	89	2388
Hammer. Power	C. W. Fletcher	619,158	Feb. 7	697	149	86	948
Hammer. Power	W. Foglesong	630,041	Aug. 1	596	130	88	841
Hammer. Power	J. A. Morris	638,058	Nov. 28	3859	811	89	1788
Hammer. Power	H. Whomes	616,998	Jan. 3	252	57,58	86	50
Hammer. Power	H. Whomes	639,325	Dec. 19	2092	481	89	2311
Hammer. Self-feeding	C. H. Craig	629,773	Aug. 1	21	6	88	725
Hammer. Steam	J. F. Doolittle	628,599	July 11	1212	284	88	254
Hammering-machine. Electrical	T. C. Robinson. (Reissue)	11,710	Jan. 24	2929	647	86	621
Hammock	R. C. Black	622,411	Apr. 4	381	87	87	71
Hammock	R. C. Funke	627,994	July 4	71	13	88	15
Hammock	C. K. Hann	626,610	June 6	696	161	87	1749
Hammock	I. E. Palmer	626,842	June 13	1162	258	87	1856
Hammock and elevator	J. C. Lassiter	635,261	Oct. 17	2359	551	89	499
Hammock-chair	I. Jesseman	636,669	Nov. 7	795	176	89	1083
Hammock or swing support	R. Linkletter	626,763	June 13	998	224	87	1826
Hammock. Sanitary	A. M. Bartlett	633,111	Sept. 19	1718	403	88	2071
Hammock-sling	I. M. George	624,324	May 2	702	155	87	835
Hammock-support	W. F. Parmelee	630,735	Aug. 8	1894	428	88	1104
Hammock-support	S. Williams	617,475	Jan. 10	1176	268	86	248
Hammock-support	H. R. Wood and G. R. Taitt	631,602	Aug. 22	3491	788	88	1464
Hammock-support and shelter-tent	B. Diggins	638,174	Nov. 28	4096	864	89	1833
Hammock-support awning-frame	I. E. Palmer	625,515	May 23	2835	646	87	1313
Hammock. Wire	M. B. Lloyd	631,747	Aug. 22	3748	841	88	1511
Hand-bag	J. D. Wood	627,374	June 20	2157	475	87	2074
Handcuff	L. H. Cobb	623,984	May 2	54	12	87	712
Handcuff	J. F. Cumming	628,139	July 4	345	82	88	70
Handcuff	J. J. Tower	636,589	Nov. 7	633	139	89	1050
Hand-drill	S. F. Nichols	631,509	Aug. 22	3312	752, 753	88	1426
Hand-extender	F. L. Crane	623,235	Apr. 18	1921	441	87	403
Hand-hole plate	H. G. Tidemann	629,829	Aug. 1	123	30	88	745
Hand-hole cover	J. Taylor	619,239	Feb. 7	831	182, 183	86	975
Hand-hole plate	E. D. and E. C. Meier	621,689	Mar. 21	2130	474, 475	86	1940
Hand-holes. Machine for making oval	C. P. Higgins	638,711	Dec. 12	999	222, 223	89	2081
Hand-shears	E. H. Trieschmann	639,468	Dec. 19	2376	547	89	2367
Hand-shears	E. H. Trieschmann	639,469	Dec. 19	2377	548	89	2367
Hand-shears for cutting sheet metal	G. Thuillier	639,874	Dec. 26	3110	715	89	2530
Hand-shield	M. F. Barth	632,547	Sept. 5	635	148	88	1832
Handkerchief-holder	F. W. Bostrom	635,121	Oct. 17	2125	497	89	455
Handkerchief-holder	L. M. Churchill	629,660	July 25	3170	739	88	673
Handle: *See* Auger-handle. Ax-handle. Bottle-handle. Box-handle. Broom-handle. Brush-handle. Casket-handle. Cover-handle. Detachable handle. Implement-handle. Mop-handle. Removable handle. Saw-handle Stamp-handle. Tea or coffee pot handle. Tool-handle. Valise-handle. Wrench-handle.							
Handle	W. Klein	617,103	Jan. 3	468	112	86	92
Handle-bar	J. Paquet	630,069	Aug. 1	658	142	88	853

Alphabetical list of inventions—Continued.

Invention.	Name.	No.	Date.	Monthly volume. Spec.	Monthly volume. Dr'g.	Official Gazette. Vol.	Official Gazette. Page.
Handle-bar	J. P. Schowalter and G. A. Rosenbauer.	634,505	Oct. 10	1001	239	89	217
Handle-bar	W. J. Tanner	633,054	Sept. 12	1574	367	88	2032
Handle-bar	G. S. Webb	627,030	June 13	1514	330	87	1926
Handle-bar. Adjustable	J. D. King and M. A. Burns	635,689	Oct. 24	3193	736	89	678
Handle-bar-adjusting device	I. Larsen	626,836	June 13	1155	256	87	1855
Handle-bar and post adjustment	J. Wiggins	638,156	Nov. 28	4065	857	89	1826
Handle-bar clamp	B. D. Harris	622,766	Apr. 11	1050	243	87	219
Handle-bar fastening	A. Jerome	618,681	Jan. 31	3462	773	86	736
Handle-bar fastening	A. Jerome	620,848	Mar. 7	582	126	86	1617
Handle-bar. Pneumatic-cushion	A. J. Davis	627,574	June 27	2544	560	87	2165
Handle for demijohns, &c	B. Boley	626,407	June 6	364	85	87	1684
Handle for metal ware	T. L. Ferrall	630,675	Aug. 8	1806	407	88	1087
Handle for toilet articles	E. Oldenbusch	628,673	July 11	1382	323	88	287
Handle for washboilers, pails, &c	J. I. Flanagen	636,784	Nov. 14	1071	229	89	1165
Handle-securing device	W. L. H. Pape	628.958	July 18	1896	440	88	406
Hanger: *See* Coat-hanger. Curtain-hanger. Curtain-pole hanger. Cycle-hanger. Door-hanger. Eaves-trough hanger. Electric-light hanger. Garment-hanger. Harness-hanger. Hat-hanger. Joist-hanger. Lamp-hanger. Meat-hanger. Picture-frame hanger. Pipe-hanger. Sash-hanger. Shade-hanger. Shade and curtain hanger. Soap-hanger. Suit-hanger. Trousers-hanger.							
Hanger device for supporting boarding or planking on iron girders.	A. Bremer	635,122	Oct. 17	2126	498	89	455
Hansom	D. C. Norcott	637,404	Nov. 21	2289	492, 493	89	1418
Harbor or coast defense	A. Van Bibber	627,313	June 20	2031	445	87	2049
Harmonica	F. Strauss	628,640	July 11	1327	309	88	276
Harness	H. R. McDonald	630,394	Aug. 8	1276	279	88	987
Harness	J. S. Park	630,301	Aug. 1	1061	231	88	931
Harness	J. C. Raymond	627,352	June 20	2103	464	87	2063
Harness	J. Reel	633,041	Sept. 12	1557	362	88	2028
Harness and thill attachment	J. H. Prall	632,279	Sept. 5	141	32	88	1735
Harness attachment	L. J. Ham	627,188	June 20	1794	394	87	2001
Harness attachment	G. R. Montgomery	631,858	Aug. 29	3954	884	88	1563
Harness attachment	G. E. Pooler	628,549	July 11	1131	264	88	238
Harness collar-supporter	W. N. Houghtaling	628,713	July 11	1450	337	88	302
Harness-connector	E. R. Birk	633,975	Sept. 26	3307	770	88	2398
Harness for dogs. Draft-	B. A. Sammann	631,443	Aug. 22	3183	723	88	1401
Harness from shafts. Means for detaching	F. Dickerboom	625,652	May 23	3070	699	87	1359
Harness-hanger	U. Grignon	619,405	Feb. 14	1128	255	86	1050
Harness-hitching device	J. P. Field	619,292	Feb. 14	943	214	86	1013
Harness-loop bushing	J. N. Phillips	635,022	Oct. 17	1906	454	89	412
Harness-machine	J. G. Eicholtz	630,335	Aug. 8	1137	249, 250	88	962
Harness, &c. Rawhide reinforce for	J. L. Thomson	626,196	May 30	4189	952	87	1588
Harness-ring	J. W. Fisher	620,543	Feb. 28	3171	726	86	1480
Harness-riveting device	J. B. Foote	625,751	May 30	3257	739	87	1413
Harness snap-catch	J. D. Brassington	622,201	Apr. 4	8	2	87	4
Harness-terret	J. T. Heath	625,107	May 16	2122	482	87	1150
Harness-terret	A. E. Lycan	617,109	Jan. 3	477	115	86	94
Harp	H. Heymann	634,142	Oct. 3	299	76	89	63
Harp	R. Robbins	617,514	Jan. 10	1238	283	86	261
Harrow	H. Adler	632,228	Sept. 5	1	1	88	1709
Harrow	J. Ashcraft	637,999	Nov. 28	3756	788, 789	89	1768
Harrow	W. M. Baker	623,759	Apr. 25	2842	651	87	602
Harrow	J. and E. T. Baskin	626,133	May 30	4062	926	87	1563
Harrow	B. E. Blount and B. R. Guice	633,563	Sept. 26	2573	603	88	2254
Harrow	C. A. Brostrom	629,652	July 25	3160	737	88	670
Harrow	J. H. Brown	640,089	Dec. 26	3504	803, 804	89	2612
Harrow	H. M. Burdick	632,777	Sept. 12	1080	250	88	1936
Harrow	H. M. Burdick	632,778	Sept. 12	1084	251, 252	88	1937
Harrow	R. J. Chenoweth	628,761	July 11	1536	356	88	320
Harrow	C. Christianson	630,656	Aug. 8	1774	399, 400	88	1081
Harrow	W. F. Cochran	635,746	Oct. 31	3316	766	89	714
Harrow	W. M. Digby	619,285	Feb. 14	932	210	86	1011
Harrow	A. W. and F. D. England and C. L. Randolph.	632,178	Aug. 29	4543	1025	88	1677
Harrow	L. I. Fowle	628,785	July 11	1579	364	88	329
Harrow	S. H. and D. Garst	626,059	May 30	3891	884	87	1532
Harrow	J. Hagglund	623,601	Apr. 25	2592	592	87	555
Harrow	C. Lichti	618,109	Jan. 24	2393	533	86	519
Harrow	J. H. Ludlow	639,070	Dec. 12	1608	369, 370	89	2199
Harrow	J. Macphail	631,047	Aug. 15	2470	559	88	1242
Harrow	J. Macphail	631,048	Aug. 15	2471	560	88	1243
Harrow	U. D. Miller	623,488	Apr. 18	2375	546	87	495
Harrow	U. D. Miller	640,008	Dec. 26	3358	769	89	2581
Harrow	A. F. Molitor	621,309	Mar. 14	1439	318	86	1793
Harrow	C. Ohaven and F. P. Uhrig	632,196	Aug. 29	4585	1032	88	1685
Harrow	O. K. Oppen	633,270	Sept. 19	2023	475	88	2132
Harrow	H. Paulson	624,967	May 16	1869	420	87	1103
Harrow	W. Richards	629,272	July 18	2443	566	88	510
Harrow	P. A. Schumacher	628,553	July 11	1139	265	88	240

Alphabetical list of inventions—Continued.

Invention.	Name.	No.	Date.	Monthly volume. Spec.	Monthly volume. Dr'g.	Official Gazette. Vol.	Official Gazette. Page.
Harrow	J. A. Smith	639,304	Dec. 19	2050	471, 472	89	2301
Harrow	W. P. Smith	638,769	Dec. 12	1097	246	89	2101
Harrow	C. Sorenson	624,558	May 9	1135	254	87	943
Harrow	M. J. Todd	631,598	Aug. 22	3485	787	88	1462
Harrow	G. Van Sickle	630,139	Aug. 1	771	166	88	875
Harrow	E. E. Whipple	638,536	Dec. 5	661	138	89	1992
Harrow and clod-crusher. Rotary	W. M. Cook	629,428	July 25	2742	637, 638	88	590
Harrow and cultivator	J. A. Underwood	629,629	July 25	3124	727	88	664
Harrow and cultivator. Combined	W. A. Brantley	640,087	Dec. 26	3501	802, 803	89	2611
Harrow and cultivator. Combined	J. A. Elliott	631,521	Aug. 22	3332	757	88	1431
Harrow and cultivator. Convertible	A. J. Adams	631,767	Aug. 29	3799	846	88	1531
Harrow and riding attachment. Lever	E. E. Whipple	636,371	Nov. 7	243	53, 54	89	970
Harrow attachment	J. P. Duvall	638,383	Dec. 5	378	79	89	1938
Harrow cleaner. Spading	A. Anderson	617,070	Jan. 3	405	99	86	79
Harrow. Combined spring and spike tooth	J. R. Naylor	625,793	May 30	3340	758	87	1430
Harrow. Disk	W. P. Hunt and C. P. A. Friberg	638,514	Dec. 5	621	129	89	1985
Harrow. Disk	W. F. Johnston and W. J. Clokey	630,981	Aug. 15	2348	535	88	1218
Harrow. Disk	M. W. Kouns	623,677	Apr. 25	2716	623	87	578
Harrow. Disk	F. R. Packham and G. P. Oates	628,028	July 4	123	25	88	26
Harrow. Disk	O. R. Smith	623,575	Apr. 25	2542	584	87	545
Harrow. Disk	W. H. Traphagen	632,479	Sept. 5	491	112	88	1804
Harrow draft attachment. Sidehill	G. A. Brockhurst	622,793	Apr. 11	1092	253	87	227
Harrow-frame	L. G. Helmbold	627,415	June 20	2248	495, 496	87	2090
Harrow. Metallic	R. T. Horning	623,082	Apr. 11	1612	371	87	329
Harrow. Propeller disk	J. O. Naistrom	638,981	Dec. 12	1468	336, 337	89	2173
Harrow, pulverizer, and crusher. Combined	J. Carpenter	629,313	July 18	2527	588	88	526
Harrow. Revolving	F. Tiemann	617,063	Jan. 3	396	96, 97	86	77
Harrow. Riding	J. F. Moore	630,300	Aug. 1	1060	230, 231	88	931
Harrow. Rotary	W. Seckler	629,474	July 25	2835	658	88	608
Harrow. Rotary disk	W. N. Rose	633,908	Sept. 26	3186	741, 742	88	2374
Harrow. Rotary disk	A. V. Wilbur	617,378	Jan. 10	998	229	86	214
Harrow seeding attachment. Disk	J. J. Rogers and O. S. Kennedy	634,997	Oct. 17	1871	444	89	405
Harrow. Spring-tooth	F. J. Henry	638,513	Dec. 5	619	128	89	1985
Harrow. Spring-tooth	J. H. Young	621,954	Mar. 28	2640	594	86	2052
Harrow sulky attachment	J. Tucker	624,582	May 9	1173	263, 264	87	950
Harrow-tooth	M. H. Jerdee	639,813	Dec. 26	3017	694	89	2513
Harrow tooth-beam	W. C. Chamberlain	627,841	June 27	3028	661	87	2261
Harrow-tooth fastening	J. H. Brown	640,090	Dec. 26	3506	804	89	2612
Harrow-tooth fastening	J. C. Tunnicliff	635,111	Oct. 17	2104	493	89	451
Harrow-tooth-holding device	W. J. Renken	621,707	Mar. 21	2158	480	86	1946
Harrow. Wheel	F. and O. Rose	633,159	Sept. 19	1813	426	88	2090
Harrow. Wheeled	W. O. Phillips	638,137	Nov. 28	4035	850	89	1821
Harvester	J. Macphail	618,111	Jan. 24	2395	534	86	519
Harvester	J. Macphail	637,630	Nov. 21	3062	633, 634	89	1610
Harvester	D. H. Pettingill and J. Sanders	630,404	Aug. 8	1307	291, 292	88	992
Harvester and binder heading attachment	T. J. McBride	627,872	June 27	3083	675	87	2271
Harvester and shocker. Corn	N. Denning	632,648	Sept. 5	799	186, 187	88	1866
Harvester and shocker. Corn	O. A. Wolf	629,118	July 18	2189	508	88	464
Harvester. Bean	T. T. Brown	634,873	Oct. 17	1658	390, 391	89	362
Harvester-binder	S. D. Locke	631,647	Aug. 22	3558	802, 803	88	1476
Harvester. Binder	M. Millane	617,759	Jan. 17	1708	383	86	371
Harvester bundle-carrier	J. Macphail	621,929	Mar. 28	2592	584	86	2043
Harvester. Corn	M. Bruner	618,493	Jan. 31	3129	692	86	671
Harvester. Corn	J. E. Fisher	637,378	Nov. 21	2239	482	89	1409
Harvester. Corn	P. B. Horner and C. E. Hedrick	636,143	Oct. 31	4108	940	89	870
Harvester. Corn	E. A. Johnston	624,942	May 16	1832	411	87	1096
Harvester. Corn	J. A. Moore, G. Cotner, and T. J. Obenchain.	624,668	May 9	1312	293, 294	87	977
Harvester. Corn	H. E. Pridmore	618,805	Jan. 31	3682	825	86	780
Harvester. Corn	M. Schlachter	617,971	Jan. 17	2115	474	86	452
Harvester. Corn	C. S. Sharp	624,878	May 9	1707	386, 387	87	1055
Harvester. Corn	J. A. Stone	640,046	Dec. 26	3426	787, 788	89	2596
Harvester. Corn	J. A. Weston	636,306	Nov. 7	136	30	89	949
Harvester. Corn	C. Whitney and J. F. Steward	619,377	Feb. 14	1078	242, 243	86	1041
Harvester cutting apparatus	G. Mischler	637,639	Nov. 21	3076	636	89	1612
Harvester elevator. Grain	G. W. Beam	637,918	Nov. 28	3600	754, 755	89	1739
Harvester extension-reel	E. L. Fissel	622,421	Apr. 4	396	91	87	73
Harvester. Grain	E. Pridmore	618,546	Jan. 31	3221	715	86	689
Harvester grain-adjusting apron	W. L. Selleck	627,274	June 20	1949	429	87	2032
Harvester grain separator and cleaner attachment	D. Best	620,731	Mar. 7	360	74	86	1572
Harvester-guard finger-bar	D. Best	620,732	Mar. 7	363	74	86	1572
Harvester. Kafir-corn	T. H. Deeter	627,298	June 20	1990	438	87	2040
Harvester-knife fastener	W. C. Bush	629,656	July 25	3165	738	88	671
Harvester. Pea	J. E. Jaco	622,484	Apr. 4	534	126	87	101
Harvester. Pea	W. G. St. John	635,064	Oct. 17	1990	471	89	429
Harvester. Peanut	G. W. Williams	639,691	Dec. 19	2781	641, 642	89	2448
Harvester. Potato	J. P. Brennan	616,885	Jan. 3	26	5,6	86	7

Alphabetical list of inventions—Continued.

Invention.	Name.	No.	Date.	Monthly volume. Spec.	Monthly volume. Dr'g.	Official Gazette. Vol.	Official Gazette. Page.
Harvester rake attachment	J. Pegg	630,102	Aug. 1	707	152, 153	88	864
Harvester-reel	A. J. Bartlett, P. Jacobus, and S. W. Stamm.	619,531	Feb. 14	1342	308, 309	86	1092
Harvester-reel	C. W. Stewart	640,044	Dec. 26	3422	785, 786	89	2595
Harvester. Rice-	W. S. Temple	636,085	Oct. 31	4010	916, 917	89	850
Harvester. Seed-	R. S. Pence	637,281	Nov. 21	2035	437	89	1367
Harvester. Self-binding	C. C. Breuscher	630,854	Aug. 15	2108	478	88	1171
Harvester. Self-binding	J. F. Steward	624,564	May 9	1147	257	87	945
Harvester-sickle	C. S. Bone	637,848	Nov. 28	3463	723	89	1710
Harvester. Tobacco-	W. V. Oakey	618,900	Feb. 7	142	31	86	833
Harvester weight-equalizer	J. Macphail	635,788	Oct. 31	3401	784	89	732
Harvesters. Apron-tightener for grain-	J. W. Pridmore	632,062	Aug. 29	4323	972	88	1633
Harvesters. Endless apron for	J. W. Pridmore	632,063	Aug. 29	4325	972	88	1633
Harvesters. Frame for aprons of grain-	J. W. Pridmore	631,668	Aug. 22	3592	810	88	1483
Harvesting-machine	T. J. McBride	627,871	June 27	3083	674	87	2271
Harvesting machine. Beet-	C. Maul	618,544	Jan. 31	3218	714	86	688
Harvesting-machine knotter	J. F. Steward	617,545	Jan. 10	1300	294	86	273
Harvesting or other machines. Draft attachment for	W. R. Newton	638,592	Dec. 5	767	166	89	2013
Hasp	W. Ryno	624,105	May 2	293	61	87	757
Hasp-lock	F. Feldmann	622,613	Apr. 4	765	178	87	146
Hasp-lock	W. M. Valentine	618,303	Jan. 24	2762	612	86	588
Hassocks. Apparatus for manufacturing	W. H. Muth	639,928	Dec. 26	3211	736	89	2552
Hat	W. P. Gammons, Jr	623,148	Apr. 18	1769	407	87	372
Hat	J. W. Penny	623,032	Apr. 11	1527	353	87	311
Hat	M. L. Roberts	620,970	Mar. 14	823	180	86	1673
Hat and clothes rack	H. B. Porter	631,860	Aug. 29	3955	884	88	1563
Hat and coat holder	G. W. Chester	638,196	Nov. 28	4141	874	89	1844
Hat and garment hook	W. S. Bracktle	633,227	Sept. 19	1951	458	88	2118
Hat-band	M. and I. Grenthal	629,788	Aug. 1	48	13	88	730
Hat-band	M. and I. Grenthal	629,992	Aug. 1	494	108	88	820
Hat-bands. Adjustable clasp for mourning	E. A. Burt	624,170	May 2	422	87	87	781
Hat-block chuck	G. F. Larkin	624,225	May 2	511	109	87	797
Hat blocking and pressing machine	J. C. Mulcahy	623,028	Apr. 11	1520	352	87	310
Hat-body-marking machine	B. F. Dunham	626,889	June 13	1281	280, 281	87	1880
Hat-box. Hanging compartment	H. F. Lindsey	633,864	Sept. 26	3112	722, 723	88	2360
Hat-box. Pyramidal	M. L. Horning	628,465	July 11	968	224	88	207
Hat-brim-curling apparatus	C. Stensland	638,817	Dec. 12	1182	265	89	2117
Hat-brim-curling machine	J. Agar	624,897	May 16	1746	394	87	1081
Hat-brim-flanging machine	G. Segschneider	624,690	May 9	1356	302, 303	87	986
Hat-brim-rounding machine	G. Segschneider	632,153	Aug. 29	4496	1012, 1013	88	1669
Hat brims and crowns. Machine for pouncing	S. J. Miller	624,842	May 9	1646	372, 373	87	1043
Hat-brims. Machine for ironing down curls of	G. Segschneider	624,691	May 9	1360	304	87	987
Hat case or valise	N. F. Hurdel	639,050	Dec. 12	1577	361	89	2193
Hat. Coachman's	H. Falkenbach	622,040	Mar. 28	2800	631	86	2084
Hat, coat, and umbrella holder. Combination	D. Rabinowitz	632,880	Sept. 12	1293	297	88	1976
Hat, coat, and umbrella hook	L. A. McCord	631,937	Aug. 29	4085	916	88	1587
Hat, coat, and umbrella rack	L. A. McCord	626,335	June 6	215	52	87	1654
Hat-conformator	C. J. Dietrich	619,874	Feb. 21	2002	455	86	1244
Hat-conformator	S. Mayer and S. H. Altland	638,023	Nov. 28	3805	800	89	1777
Hat-fastener	W. N. Brewer	629,026	July 18	2013	468	88	429
Hat-fastener	H. S. Grace	627,921	June 27	3172	695	87	2293
Hat-fastener	H. J. Grote	622,002	Mar. 28	2737	618	86	2072
Hat-fastener	W. J. Hayes	626,379	June 6	317	73	87	1675
Hat-fastener	O. Y. Moser and J. W. Dornseif	625,587	May 23	2957	672	87	1337
Hat-fastener	J. H. Roland	620,502	Feb. 28	3075	703	86	1462
Hat-fastener	H. Shourt	624,109	May 2	298	62	87	758
Hat-fastener	J. Stauber	620,193	Feb. 28	2563	583	86	1363
Hat-fastener	J. Stauber	631,098	Aug. 15	2566	580	88	1260
Hat-fastener	S. A. Stienbarger	623,745	Apr. 25	2818	646	87	597
Hat-fastener	J. L. Wood	624,600	May 9	1207	271	87	956
Hat-fastener	L. Wormser	626,123	May 30	4038	921	87	1558
Hat-fastener	J. Wright and J. W. Mitchell	631,916	Aug. 29	4049	909	88	1580
Hat-fastener for boxes or cases	G. H. Schoenleber	628,041	July 4	150	31	88	31
Hat-forming machine	R. J. Lynch	632,841	Sept. 12	1204	275, 276	88	1962
Hat-hanger	C. Easton	629,154	July 18	2255	522	88	476
Hat-hanger	J. E. Fitzgerald	626,416	June 6	374	87	87	1686
Hat-holder for milliners' use	J. Bartel	639,958	Dec. 26	3274	749	89	2565
Hat-holder for seats, &c	S. E. Colclazer	623,945	Apr. 25	3234	745	87	676
Hat-holding attachment for chairs	F. R. Ottenheimer	628,605	July 11	1221	286	88	562
Hat-ironing machine	G. F. Larkin	631,017	Aug. 15	2409	547, 548	88	1230
Hat. Lady's	B. F. Koch	624,221	May 2	503	107	87	796
Hat-making machine	P. C. Waring	628,878	July 11	1742	407	88	359
Hat or cap	C. H. von Klein	625,776	May 30	3307	750	87	1423
Hat-packing box	J. A. Ryer	637,035	Nov. 14	1553	334	89	1261
Hat-packing ring	L. T. Hallock	625,727	May 23	3192	725	87	1382
Hat-pin. Safety	E. M. Sleight	626,506	June 6	536	123	87	1718
Hat-pressing machine	F. H. Van Houten	636,392	Nov. 7	280	62, 63	89	977
Hat-pouncing machine	G. E. Brush	631,984	Aug. 29	4170	938	88	1603
Hat-pouncing machine	G. E. Brush	631,985	Aug. 29	4172	938	88	1603
Hat-pouncing machine	W. H. Jackson	629,190	July 18	2310	536, 537	88	486
Hat-pouncing machine	C. H. Reid	625,699	May 23	3141	714	87	1373
Hat-rack and advertising device. Locking	B. F. Childress	635,089	Oct. 17	2054	484	89	442
Hat-sizing machine	J. L. Canham	617,519	Jan. 10	1247	284	86	262

Alphabetical list of inventions—Continued.

Invention.	Name.	No.	Date.	Monthly volume. Spec.	Monthly volume. Dr'g.	Official Gazette. Vol.	Official Gazette. Page.
Hat-sizing roller	J. Marshall	623,285	Apr. 18	2021	464	87	424
Hat-sizing tanks. Strainer for	G. Wells	630,429	Aug. 8	1360	304	88	1002
Hat-smoothing iron	J. Agar	635,633	Oct. 24	3099	711	89	660
Hat-stand	E. B. Magill	623,727	Apr. 25	2791	638	87	592
Hat-support for theater-seats	E. J. Guenzel	628,533	July 11	1101	257	88	232
Hat sweat-bands. Device for fitting and cutting	W. H. Barnum	631,978	Aug. 29	4159	935	88	1601
Hat-sweat-stringing machine	J. A. Paquin	627,237	June 20	1878	412	87	2017
Hat-tray	G. E. Farwell	621,911	Mar. 28	2564	578	86	2039
Hat-valise	N. F. Hurdel	639,049	Dec. 12	1576	361	89	2193
Hats, &c. Device for hanging	L. C. Baldwin	621,738	Mar. 21	2223	500	86	1958
Hats. Making	J. H. Neave	631,903	Aug. 29	4023	901	88	1576
Hats. Mourning-band for	E. A. Burt and H. Harris	630,179	Aug. 1	840	181	88	888
Hats. Stiffening	J. H. Neave and F. Dehan	631,904	Aug. 29	4025	------	88	1576
Hats. Tool for making ventilating-holes in	C. W. Taylor	638,773	Dec. 12	1105	247	89	2103
Hatters' kettles. Device for cleansing	J. E. Morton	617,296	Jan. 3	827	192	86	163
Hatch cover. Cross-	H. See	637,423	Nov. 21	2318	500	89	1424
Hawser-indicator	J. A. Varnum	635,085	Oct. 17	2042	482	89	440
Hay and stock rack. Combined	W. G. Cook and W. H. Shannon	630,663	Aug. 8	1789	403, 404	88	1083
Hay and stock rack. Combined	S. H. Petro	638,201	Nov. 28	4152	877	89	1846
Hay and stock rack for vehicles	G. P. Holmes	620,322	Feb. 28	2790	638	86	1408
Hay-carrier	W. Louden	620,467	Feb. 28	3021	691	86	1451
Hay-carrier	W. Louden	631,896	Aug. 29	4009	897	88	1573
Hay-carrier	W. Louden	634,949	Oct. 17	1775	421	89	385
Hay-carrier stop	W. Louden	634,948	Oct. 17	1773	421	89	385
Hay-elevator	J. D. Swacick	635,110	Oct. 17	2102	493	89	451
Hay-frame	W. M. Reynolds	621,708	Mar. 21	2159	481	86	1946
Hay gathering and loading machine	A. S. Peck	632,021	Aug. 29	4243	954, 955	88	1618
Hay-knife	M. H. Bermes	626,522	June 6	558	129	87	1722
Hay-loader	S. Ferguson	637,550	Nov. 21	2548	552	89	1469
Hay-loader	G. W. Goodrich	637,244	Nov. 21	1978	423, 424	89	1356
Hay-loader	W. B. Kirkpatrick	622,859	Apr. 11	1215	283	87	250
Hay-loader	J. Wilson	634,599	Oct. 10	1167	277, 278	89	249
Hay-loader shaft	J. Martin	619,201	Feb. 7	769	167	86	962
Hay or grain rack	J. W. Bruns	622,601	Apr. 4	748	173	87	142
Hay or manure loader	C. Malmquist	616,948	Jan. 3	162	37	86	32
Hay or stock rack	J. A. Sears	639,102	Dec. 12	1678	388	89	2213
Hay-press	G. F. Biggs	619,858	Feb. 21	1970	447	86	1238
Hay-press	F. V. Burner	623,394	Apr. 18	2212	507, 508	87	461
Hay-press	C. G. Combest	635,663	Oct. 24	3144	724, 725	89	668
Hay-press	J. Cruickshank	619,725	Feb. 21	1720	392, 393	86	1189
Hay-press	W. H. Gray	629,030	July 18	2021	470	88	431
Hay-press	J. Ross	632,539	Sept. 5	613	141	88	1829
Hay-press	E. J. Shirley	634,544	Oct. 10	1076	256	89	232
Hay-press	I. W. Stuart	630,785	Aug. 8	1980	447	88	1122
Hay-rack	S. Desoe	625,096	May 16	2104	478	87	1147
Hay-rack	A. Hines	620,587	Mar. 7	65	13	86	1515
Hay-rack	T. Pritchard	639,825	Dec. 26	3031	698	89	2516
Hay-rack and wagon-box. Convertible	P. T. Neumann	633,531	Sept. 19	2490	586	88	2222
Hay-rack loader or unloader	W. N. Simpkins	628,364	July 4	777	181	88	150
Hay-rack loader or unloader. Automatic	W. H. Becker	632,229	Sept. 5	2	1	88	1709
Hay-rake	S. K. Dennis	635,751	Oct. 31	3324	768, 769	89	716
Hay-rake	H. Green	632,012	Aug. 29	4222	950, 951	88	1614
Hay-rake	J. Macphail	637,807	Nov. 28	3377	708	89	1692
Hay-rake	J. Macphail	638,873	Dec. 12	1277	290	89	2134
Hay-rake	L. W. Wilson	623,299	Apr. 18	2044	469	87	428
Hay rake and loader	G. W. Fishback	635,958	Oct. 31	3719	860	89	792
Hay rake and loader	J. C. Summers	621,176	Mar. 14	1196	260, 261	86	1746
Hay-rake and sweep. Interchangeable horse and hand	P. R. and N. Miller	618,117	Jan. 24	2408	537	86	521
Hay-rake attachment	H. Green	632,013	Aug. 29	4224	951	88	1614
Hay-rake. Horse	C. E. Jackson	635,550	Oct. 24	2948	673, 674	89	630
Hay-rake. Revolving sulky	A. R. Black	636,746	Nov. 14	993	212	89	1149
Hay-ricker	L. Swarm	625,857	May 30	3468	786	87	1454
Hay-stack cover	S. G. Rayl	637,159	Nov. 14	1800	386	89	1306
Hay-tedder	J. A. Swanson	617,202	Jan. 3	648	152	86	127
Head and back rest for invalids	W. A. Nixon	635,578	Oct. 24	2996	687	89	639
Head and signal light. Combination	L. W. Laning	620,937	Mar. 14	743	163	86	1659
Headlight	J. L. Creveling	620,105	Feb. 28	2407	544	86	1334
Headlight	J. L. Creveling	620,229	Feb. 28	2623	597	86	1374
Headlight-chimney protector. Locomotive-	J. F. Hare	624,328	May 2	708	157	87	836
Headlight-lamp. Electric	H. P. Wellman	617,621	Jan. 10	1441	329	86	300
Headlight. Acetylene-gas	C. H. Pagett	635,580	Oct. 24	2998	688	89	639
Headlights. Lens for vehicle-	J. H. Pitkin	631,996	Aug. 29	4191	943	88	1607
Head-rest	A. W. Browne	619,272	Feb. 14	904	204	86	1005
Head-rest	A. P. Gould	634,083	Oct. 3	172	44	89	38
Head-rest	H. M. Joss	617,025	Jan. 3	312	73	86	62
Head-rest and bed-bottom. Folding ventilated	A. E. Larrabee	622,501	Apr. 4	560	131, 132	87	106
Head-rest for chairs. Adjustable	S. N. McCloud	623,414	Apr. 18	2252	516	87	470
Head-rest. Hygienic	H. E. Windrath	624,717	May 9	1405	315	87	996
Head-screen. Protective	H E. Beach	618,001	Jan. 17	2164	482	86	460
Headed articles of manufacture. Forming	J. A. and A. L. Thierry	624,404	May 2	839	189	87	862
Heading-cutting machine	W. L. Field and C. A. Lawton	629,989	Aug. 1	488	107	88	819
Hearing instrument	R. C. M. Bowles	626,823	June 13	1113	249	87	1847
Hearse	A. C. Cox	627,907	June 27	3150	689	87	2288

Alphabetical list of inventions—Continued.

Invention.	Name.	No.	Date.	Monthly volume. Spec.	Monthly volume. Dr'g.	Official Gazette. Vol.	Official Gazette. Page.
Hearth and welding furnace. Rotary	M. McDowell	639,757	Dec. 26	2907	670	89	2491
Hearth-fender. Sheet-metal	F G. Caldwell	619,863	Feb. 21	1980	450	86	1240
Hearth-fender. Sheet-metal	F. G. Caldwell	627,388	June 20	2191	482	87	2080
Heat-accumulator	L. Maurice	625,892	May 30	3538	804	87	1467
Heat-alarm. Electric	H. F. Jones	625,843	May 30	3440	781	87	1448
Heat-insulating coverings. Manufacture of	W. Borrowe and J. Lumley	629,102	July 18	2159	501, 502	88	459
Heat or cold indicator	E. B. Petersen	627,524	June 27	2440	537	87	2145
Heat-regulating device	F. Lamplough	629,375	July 25	2647	614, 615	88	570
Heat-regulating device. Automatic	F. V. Winters	621,008	Mar. 14	893	193	86	1687
Heater: *See* Air-heater. Barrel-heater. Car-heater. Curling-iron heater. Dish-heater. Domestic heater. Electric heater. Electrical heater. Feed-water heater. Gas-heater. Gas-burning heater. Gas-generating heater. Hot-air heater. Hot-air and hot-water heater. Hot-water heater. Kiln-heater. Milk-heater. Portable heater. Sad-iron heater. Steam-heater. Steam and hot-air heater. Submerged heater. Tank-heater. Tire-heater. Tubular heater. Vehicle-heater. Water-heater. Water-tank heater.							
Heater	G. F. Anderson	635,735	Oct. 31	3300	760	89	711
Heater	D. E. Austin	620,874	Mar. 14	631	138	86	1639
Heater	C. C. Ball	630,163	Aug. 1	814	176	88	883
Heater	C. Barnhart	620,212	Feb. 28	2598	590, 591	86	1369
Heater	R. Bigley	630,582	Aug. 8	1644	367	88	1057
Heater	J. R. Froberg	639,550	Dec. 19	2512	579	89	2394
Heater	P. F. McCaffrey	637,887	Nov. 28	3547	743	89	1728
Heater	W. H. Shick	631,755	Aug. 22	3760	843	88	1513
Heater	C. T. Wise, Sr	627,373	June 20	2156	475	87	2074
Heaters. Regulating apparatus for steam	F. Tudor	618,921	Feb. 7	192	42	86	842
Heating air by steam or vapor heat. Apparatus for	G. Seagrave and S. B. Bevington	633,911	Sept. 26	3191	743	88	2375
Heating and annealing furnace	W. Griffith and J. M. Anderson	639,969	Dec. 26	3295	754	89	2569
Heating and annealing furnace	W. Griffith and J. M. Anderson	639,970	Dec. 26	3296	754, 755	89	2569
Heating and steaming device. Hand	J. S. Berry	639,657	Dec. 19	2706	622	89	2435
Heating and ventilating or refrigerating apparatus and system.	W. E. Allington	632,506	Sept. 5	533	123, 124	88	1813
Heating and ventilating pipe	B. J. Conlan	618,841	Feb. 7	42	9	86	812
Heating and ventilating rooms	O. L. Badger	633,712	Sept. 26	2859	664, 665	88	2308
Heating apparatus	W. R. Addicks	634,126	Oct. 3	271	67	89	57
Heating apparatus	C. H. Crocker	623,138	Apr. 18	1747	402	87	368
Heating apparatus	O. Hansen and A. P. Nelsen	638,708	Dec. 12	995	222	89	2080
Heating apparatus	J. McBride	618,711	Jan. 31	3518	785	86	747
Heating apparatus and device for controlling action thereof.	C. E. Van Auken	625,306	May 16	2465	560	87	1215
Heating apparatus and device for controlling action thereof. Steam	C. E. Van Auken	634,547	Oct. 10	1083	257	89	234
Heating apparatus. Fan-blower	W. E. Allington	623,348	Apr. 18	2130	489, 490, 491	87	445
Heating apparatus. Fan-blower	W. E. Allington	632,507	Sept. 5	536	124, 125	88	1813
Heating apparatus. Hot-water	H. Wittbold	622,745	Apr. 11	1010	235, 236	87	211
Heating apparatus. Steam	E. F. Osborne	624,526	May 9	1070	241	87	930
Heating, drying, or airing apparatus	H. Hargreaves	619,407	Feb. 14	1134	256	86	1050
Heating-furnace	W. W. Barnes	618,218	Jan. 24	2605	576, 577	86	557
Heating-furnace	A. Johnson	626,465	June 6	457	107, 108	87	1702
Heating-furnace	W. C. Macey	637,139	Nov. 14	1769	379	89	1300
Heating-furnace	F. A. Magee	625,577	May 23	2942	668	87	1334
Heating-furnace. Continuous	P. T. Berg	617,917	Jan. 17	2033	454, 455	86	435
Heating furnace. Pit	J. M. Miller	626,073	May 30	3913	889	87	1537
Heating liquids	R. L. Mond	629,520	July 25	2938	684	88	628
Heating or cooling fluids. Apparatus for	T. Clarkson	625,642	May 23	3056	695	87	1356
Heating or roasting furnace	W. E. Roberts	626,632	June 6	736	169, 170	87	1757
Heating system	E. M. Bosley and W. Wurdack	632,958	Sept. 12	1415	327	88	2001
Heating system	A. Peglow	637,023	Nov. 14	1532	330	89	1256
Heating system. Air	H. L. Goodwin	635,042	Oct. 17	1946	461	89	420
Heating system. Hot-water	M. Leitch	635,787	Oct. 31	3400	784	89	731
Heating system. Vapor	P. J. Henderson	623,715	Apr. 25	2777	635, 636	87	589
Heating systems. Apparatus for preventing pounding or water-hammering in circulating-pipes of	J. L. Creveling	618,953	Feb. 7	285	62	86	866
Heddle-making machine	W. H. Gibbs	626,900	June 13	1295	284, 285, 286	87	1883
Heddle-making machine	F. B. Shuster	626,571	June 6	632	146, 147, 148	87	1737
Heddle middle eyes. Machine for making	M. A. Ficker	630,874	Aug. 15	2141	485, 486	88	1178
Heddles to shafts. Means for attaching	K. Kurmann	632,726	Sept. 12	995	231	88	1918

Alphabetical list of inventions—Continued.

Invention.	Name.	No.	Date.	Monthly volume. Spec.	Monthly volume. Dr'g.	Official Gazette. Vol.	Official Gazette. Page.
Hedge-puller or stump-extractor	O. H. Lewis	619,767	Feb. 21	1788	409, 410	86	1202
Hedge-trimmer	E. P. Kepner	625,688	May 23	3121	709, 710	87	1368
Heel	C. Blackader	634,743	Oct. 10	1423	336	89	300
Heel	J. W. Cross	627,984	July 4	48	9	88	11
Heel	J. E. O'Neill	620,667	Mar. 7	234	48	86	1548
Heel	F. Wiesen	639,326	Dec. 19	2096	482	89	2311
Heel and counter protector. Shoe	D. H. Packard	638,879	Dec. 12	1286	292	89	2136
Heel and sole burnishing machine	H. F. Rooney	636,357	Nov. 7	218	48	89	964
Heel-attaching machine	F. F. Raymond, 2d	619,707	Feb. 14	1666	382, 383, 384	86	1152
Heel-attaching machine	F. F. Raymond, 2d	624,539	May 9	1099	247, 248, 249	87	935
Heel-attaching machine	E. Woodward	627,741	June 27	2850	624	87	2226
Heel attachment for boots or shoes. Rubber	C. S. Ferguson	638,228	Dec. 5	39	10	89	1875
Heel. Boot or shoe	M. Ford and G. B. Starr	621,914	Mar. 28	2569	579	86	2039
Heel. Boot or shoe	H. O'Sullivan	618,127	Jan. 24	2431	543	86	526
Heel. Boot or shoe	G. H. Swenson	621,384	Mar. 21	1570	348	86	1831
Heel-breasting machine	J. J. Heys	636,990	Nov. 14	1465	316, 317	89	1243
Heel-building machine	W. P. Bosworth	631,035	Aug. 15	2447	555	88	1237
Heel-compressing machine	C. H. Fogg	638,664	Dec. 5	886	194, 195	89	2038
Heel-compressing machine	F. F. Raymond, 2d	631,029	Aug. 15	2436	552, 553	88	1235
Heel-compressing machine	F. F. Raymond, 2d	637,216	Nov. 14	1919	411	89	1329
Heel-compressing machine	W. J. Young	628,512	July 11	1057	246, 247	88	224
Heel-compressing machine	W. J. Young	628,513	July 11	1062	248	88	225
Heel. Cushion	C. H. Martin	632,467	Sept. 5	467	106	88	1799
Heel. Cushion	H. O'Sullivan	625,897	May 30	3544	805	87	1468
Heel. Cushion	W. A. Zickerman	634,435	Oct. 3	878	212	89	177
Heel. Elastic shoe	H. B. Haigh	636,796	Nov. 14	1088	233	89	1168
Heel-finishing tool	Z. Beaudry	624,741	May 9	1440	325	87	1003
Heel for boots or shoes. Adjustable circular	T. T. Marshall	638,347	Dec. 5	303	63	89	1924
Heel grinding or polishing tool	L. T. Adams	619,921	Feb. 21	2074	470	86	1257
Heel-nailing machine	H. P. Gamble and A. Black	634,106	Oct. 3	228	57,58	89	49
Heel-nailing machine	F. F. Raymond, 2d	624,538	May 9	1096	246, 247	87	934
Heel protector. Shoe	E. Slauson	628,188	July 4	431	102	88	87
Heel-rubber	J. H. Morrow	623,803	Apr. 25	2963	677	87	626
Heel-rubber	J. H. Morrow	630,726	Aug. 8	1882	425	88	1102
Heel. Safety	H. O'Sullivan	618,128	Jan. 24	2432	543	86	526
Heel-seat-rounding machine	O. Paquette	629,810	Aug. 1	86	22	88	737
Heel-shave	E. Hoglund	636,231	Oct. 31	4278	981	89	904
Heel. Shoe	B. Rumsey	634,998	Oct. 17	1872	444	89	405
Heel-slug. Boot or shoe	E. J. and M. D. Leighton	620,154	Feb. 28	2489	566	86	1351
Heel-spring for boots or shoes	G. E. Swan	631,683	Aug. 22	3622	816	88	1489
Heel-trimming machine	B. F. Mayo. (Reissue)	11,770	Sept. 5	910	212, 213	88	1890
Heel-trimming machine	A. McDowell	617,038	Jan. 3	338	80	86	66
Heel-trimming machines. Rotary cutter-head for	M. T. Harrigan	625,728	May 23	3194	726	87	1383
Heel. Ventilated shoe	G. Ferrata	622,673	Apr. 11	899	206	87	190
Heels. Device for securing rands to	C. A. Bliss	629,148	July 18	2245	520	88	474
Heliograph	J. P. Friez	617,684	Jan. 10	1562	354	86	323
Helmet	C. J. Ross	631,880	Aug. 29	3989	892	88	1569
Helmet-brim-cutting machine	C. F. Lehmann	632,531	Sept. 5	593	136	88	1825
Hem-folding machine	R. Loeb	639,413	Dec. 19	2272	524, 525	89	2346
Hemp breaking and shaking machine	A. Angell	622,433	Apr. 4	422	97, 98	87	78
Hemp-cleaning machine	J. Torroella	618,750	Jan. 31	3585	800	86	761
Hemp-disintegrating machine	P. W. Reinshagen	630,408	Aug. 8	1316	293, 294	88	993
Herbage-exterminator	H. F. Beckham	638,951	Dec. 12	1413	------	89	2162
Heteroxanthin. Making	E. Fischer	617,986	Jan. 17	2140	------	86	456
Hide or skin shaving machine	J. Hall	621,077	Mar. 14	1020	223, 224	86	1710
Hide, skin, or leather machinery	J. Hall	618,268	Jan. 24	2697	597	86	574
Hide-splitting machine	F. Wayland	638,368	Dec. 5	353	74	89	1934
Hides. Apparatus for treating	J. R. and J. S. Brown	629,490	July 25	2868	667	88	614
Hides or skins. Apparatus for shaving	J. Rood	618,620	Jan. 31	3348	745	86	713
Hides or skins. Machine for filling	E. E. Chain	634,325	Oct. 3	678	163, 164	89	136
Hides or skins. Machine for softening	G. W. Glazier	620,545	Feb. 28	3173	727	86	1481
Hides or skins. Machine for treating	C. P. Vaughn	639,318	Dec. 19	2077	477	89	2308
Hides, skin, and leather. Machine for treating	J. Hall	618,269	Jan. 24	2698	598, 599	86	575
Hides, skins, or leather. Machine for treating	J. Hall	618,869	Feb. 7	98	20	86	823
Hides. Treating	F. Wayland	638,369	Dec. 5	355	------	89	1934
Hinge	S. D. Arnold	635,368	Oct. 24	2570	597	89	556
Hinge	W. B. Arnold	619,113	Feb. 7	602	129	86	928
Hinge	W. B. Arnold	629,185	July 18	2304	535	88	485
Hinge	M. C. Bersted	622,321	Apr. 4	218	49	87	42
Hinge	E. Breuning	630,480	Aug. 8	1455	325	88	1020
Hinge	G. W. Clum	633,075	Sept. 12	1609	374	88	2039
Hinge	C. Dietz	620,572	Mar. 7	33	7	86	1508
Hinge	C. Glover	626,204	May 30	4199	954	87	1590
Hinge	C. Glover	631,501	Aug. 22	3298	750	88	1423
Hinge	C. Glover	636,330	Nov. 7	172	38	89	955
Hinge	C. Glover	636,331	Nov. 7	173	38	89	956
Hinge	C. Glover	636,332	Nov. 7	174	38	89	956
Hinge	G. W. Golden	632,309	Sept. 5	191	43	88	1744

Alphabetical list of inventions—Continued.

Invention.	Name.	No.	Date.	Monthly volume.		Official Gazette.	
				Spec.	Dr'g.	Vol.	Page.
Hinge	C. Haferkorn	627,730	June 27	2831	620	87	2222
Hinge	W. H. Hart	618,668	Jan. 31	3443	768	86	732
Hinge	H. G. Hilzheim	625,678	May 23	3108	707	87	1366
Hinge	E. J. Hollenbeck	629,858	Aug. 1	192	44	88	758
Hinge	B. J. Riley	630,410	Aug. 8	1320	295	88	994
Hinge	C. A. Roepke	622,784	Apr. 11	1077	250	87	223
Hinge	W. Schuch	629,396	July 25	2687	626	88	579
Hinge	C. H. Shannon	619,356	Feb. 14	1043	234	86	1033
Hinge and check. Combined door	J. Hughes	638,718	Dec. 12	1010	227	89	2083
Hinge and support for desk-lids	F. W. Tobey	634,379	Oct. 3	778	186	89	154
Hinge. Antifriction-	W. H. Hart	639,565	Dec. 19	2547	584	89	2401
Hinge. Blind-	G. W. Fernald	623,952	Apr. 25	3246	747	87	679
Hinge. Box-	T. A. Galt	625,549	May 23	2898	658	87	1325
Hinge. Box-couch	T. Keely	629,131	July 18	2212	512	88	468
Hinge. Box-couch	J. T. Seng	635,605	Oct. 24	3044	699	89	647
Hinge. Detachable	J. H. Morrison	616,952	Jan. 3	166	38	86	33
Hinge. Detachable	S. B. Phifer	617,043	Jan. 3	365	88	86	70
Hinge. Double-acting spring-	O. C. Moore	619,689	Feb. 14	1625	371	86	1145
Hinge. Double-acting spring-	O. C. Moore	619,690	Feb. 14	1628	372	86	1145
Hinge for awning-blinds. Separable	E. C. Quimby	634,369	Oct. 3	758	181	89	151
Hinge for couches, beds, or adjustable chairs	A. Huttinger	619,180	Feb. 7	730	158	86	954
Hinge for lids. Thumb-lever	H. J. Deitzel	638,219	Dec. 5	19	6	89	1871
Hinge for storm-sashes. Separable	E. C. Quimby	634,370	Oct. 3	759	181	89	151
Hinge-joint for flat articles	G. Cohn	628,239	July 4	519	125	88	103
Hinge. Lock-	J. W. Neal	623,926	Apr. 25	3195	735 736	87	669
Hinge. Mirror-	S. Porter	620,551	Feb. 28	3187	730	86	1484
Hinge. Reversible lock-	A. L. Fuss	637,724	Nov. 21	3230	672	89	1642
Hinge. Seat and lid	A. O'Brien	622,384	Apr. 4	315	73	87	60
Hinge. Spring-	A. D. Anthony	622,435	Apr. 4	425	99	87	79
Hinge. Spring-	E. Bommer	636,948	Nov. 14	1387	295	89	1227
Hinge. Spring-	G. W. Chandler	637,852	Nov. 28	3469	724 725	89	1711
Hinge. Spring-	A. Danielson	636,322	Nov. 7	160	35	89	953
Hinge. Spring-	L. M. Devore	625,721	May 23	3181	723	87	1381
Hinge. Spring-	C. F. Hanington	623,367	Apr. 18	2166	498	87	451
Hinge. Spring-	C. F. Hanington	631,462	Aug. 22	3217	731	88	1407
Hinge. Spring-	A. S. Held	625,929	May 30	3602	819	87	1479
Hinge. Spring-	H. Hyde	618,794	Jan. 31	3655	818	86	774
Hinge. Spring-	J. Keene	620,933	Mar. 14	736	162	86	1658
Hinge. Spring-	P. R. Krause	631,797	Aug. 29	3856	859	88	1542
Hinge. Spring-	M. Lane	625,779	May 30	3310	752	87	1423
Hinge. Spring-	J. Lehnbeuter	639,254	Dec. 19	1957	451	89	2283
Hinge. Spring-	W. F. McKee	634,854	Oct. 10	1621	379	89	338
Hinge. Spring-	J. E. Mellor	631,805	Aug. 29	3865	862	88	1544
Hinge. Spring-	S. S. Niles	624,850	May 9	1661	375	87	1046
Hinge. Spring-	A. Robinson	632,850	Sept. 12	1221	279	88	1965
Hinge. Spring-	A. L. Stump and F. Brucker	637,218	Nov. 14	1922	411 412	89	1329
Hinge. Spring-	R. P. Whipple	621,192	Mar. 14	1222	268	86	1751
Hinge. Stop-	J. Worthington	622,314	Apr. 4	206	46	87	39
Hinge. Trunk-	W. J. Perry	638,884	Dec. 12	1298	295	89	2139
Hinges. Machine for manufacturing sheet-metal	G. E. Smart	636,574	Nov. 7	611	134 135	89	1046
Hinges. Making	C. Glover	625,443	May 23	2715	617	87	1288
Hinged case	A. L. Mariner	628,103	July 4	282	66	88	56
Hitching device	C. Jacobs	637,795	Nov. 28	3359	704	89	1689
Hitching device	W. W. Vader and A. C. Cross	623,226	Apr. 18	1905	437	87	399
Hitching device. Horse-	A. W. Lundberg	638,729	Dec. 12	1039	232	89	2088
Hitching-post and bicycle-rack. Combined	T. R. Davis	629,779	Aug. 1	37	10	88	728
Hitching-staple	W. S. Ayres	628,911	July 18	1817	423	88	395
Hobby-horse	A. C. Peterson	626,297	June 6	139	35	87	1640
Hoe	H. Compton	634,393	Oct. 3	798	193	89	158
Hoe	C. A. Long	620,849	Mar. 7	583	126	86	1617
Hoe	M. V. Shoffner	630,750	Aug. 8	1918	433	88	1109
Hoe	C. Snyder	619,630	Feb. 14	1513	345	86	1123
Hoe	J. Willman	635,949	Oct. 31	3706	856	89	790
Hoe and cultivator. Horse	F. Bateman	627,965	July 4	8	2, 3	88	4
Hoe and rake. Combined	A. A. Peart	626,926	June 13	1338	295	87	1891
Hoe. Weeding-	F. D. Williams	634,158	Oct. 3	329	83	89	68
Hoeing-machine	J. F. Carroll	623,766	Apr. 25	2861	655	87	606
Hoeing machine. Plant-	G. N. Thompson	623,225	Apr. 18	1904	437	87	399
Hoeing or cultivating machine	J. F. Carroll	638,093	Nov. 28	3942	828	89	1803
Hog-catcher	J. B. Herr	635,543	Oct. 24	2937	671	89	628
Hog-conveyer	N. Mandel	621,116	Mar. 14	1094	238 239	86	1725
Hog-hoisting machine	G. A. Lowry	627,265	June 20	1935	426	87	2029
Hog-ring	J. O. Bechdolt	636,238	Nov. 7	13	4	89	927
Hog-ring	A. Deerwester	617,146	Jan. 3	557	131	86	109
Hog-ringer	F. McConnell	637,149	Nov. 14	1785	383	89	1303
Hog-trap	A. Auchly	621,200	Mar. 14	1234	272	86	1754
Hog-trap	J. J. Ehmen	629,243	July 18	2397	555	88	501
Hog-trap	A. Mahannah and C. H. Berger	619,196	Feb. 7	759	164	86	960
Hog-trap	J. P. Tarr	630,131	Aug. 1	755	162 163	88	872
Hog-trap and crate. Combined	W. Marshall	629,865	Aug. 1	202	46	88	760
Hog trap and loading device	J. W. Harrelson	634,139	Oct. 3	296	75	89	62
Hog-trough	A. J. Fansher	633,508	Sept. 19	2453	578	88	2215
Hogs. Device for retaining unruly	H. A. Horton	621,343	Mar. 21	1503	333	86	1819
Hoist	A. B. Roney	626,868	June 13	1228	271	87	1869
Hoist. Gravity-	A. C. Pratt	620,801	Mar. 7	487	102	86	1597
Hoists or lifts. Locking apparatus for doors of	J. C. Etchells	619,879	Feb. 21	2012	457	86	1245
Hoisting and conveying apparatus	P. M. Barrett	623,065	Apr. 11	1574	363 364	87	321
Hoisting and conveying apparatus	H. R. Palmer	621,846	Mar. 28	2427	542	86	2012

Alphabetical list of inventions—Continued.

Invention.	Name.	No.	Date.	Monthly volume. Spec.	Monthly volume. Dr'g.	Official Gazette. Vol.	Official Gazette. Page.
Hoisting and dumping machine	G. H. Bowers	624,288	May 2	633	138	87	819
Hoisting apparatus	T. A. Coffin	625,643	May 23	3056	695, 696	87	1357
Hoisting apparatus	C. W. Hunt	622,227	Apr. 4	51	12	87	13
Hoisting apparatus	C. W. Hunt	624,810	May 9	1581	359	87	1031
Hoisting apparatus	C. W. Hunt and C. C. King	622,366	Apr. 4	289	67	87	55
Hoisting apparatus	C. W. and W. F. Hunt and C. C. King.	624,811	May 9	1583	360	87	1032
Hoisting apparatus	T. Keenan	636,809	Nov. 14	1110	238	89	1173
Hoisting apparatus	T. Shipley	628,861	July 11	1710	400	88	353
Hoisting apparatus	W. Williamson	617,380	Jan. 10	1002	230	86	214
Hoisting bucket. Grain-	T. M. McIntosh	638,877	Dec. 12	1283	292	89	2136
Hoisting-cylinders. Self-closing valve for pneumatic	J. L. Parker	631,530	Aug. 22	3345	761	88	1434
Hoisting device	C. Berghoefer	635,643	Oct. 24	3114	716	89	662
Hoisting device	F. W. Vincent	633,927	Sept. 26	3212	748	88	2379
Hoisting-drum	E. W. Wiley, Jr.	632,910	Sept. 12	1342	308	88	1986
Hoisting-hook	G. B. McMerrick	620,351	Feb. 28	2837	647	86	1416
Hoisting-jack machine	M. J. Graham	629,352	July 25	2608	606	88	561
Hoisting-machine	A. P. Petterson	634,586	Oct. 10	1149	273	89	246
Hoisting-machine. Portable	C. A. Bassett	629,737	July 25	3312	773, 774	88	700
Hoisting-machine, &c. Portable and transformable	W. D. Weir	634,925	Oct. 17	1736	412	89	377
Hoisting machinery	H. C. Behr	627,769	June 27	2897	633	87	2237
Hoisting machinery	H. N. Covell	621,632	Mar. 21	2009	448	86	1915
Hoisting machinery	A. J. Shaw	622,280	Apr. 4	140	32, 33, 34	87	30
Hoisting or lowering device	H. R. Patriarche	624,077	May 2	236	50	87	747
Hoisting or lowering device	H. R. Patriarche	624,078	May 2	238	50	87	747
Hoisting trip and sling	E. W. Wiley, Jr	617,267	Jan. 3	765	178	86	151
Holdhack	M. D. Schaller	636,188	Oct. 31	4192	963	89	888
Holdhack attachment. Vehicle	H. H. Brown	628,301	July 4	663	155	88	128
Holdhack attachment. Vehicle	F. J. Hess	622,145	Mar. 28	2991	676	86	2123
Holdhack-clasp or check-loop for vehicles	C. Teeter	632,953	Sept. 12	1408	325	88	1999
Holdback-hook	J. Gauthier	636,791	Nov. 14	1082	231	89	1167
Holdhack-lock	W. B. Sheer	623,045	Apr. 11	1544	357	87	315
Holdhack. Vehicle-	A. A. Arthur	637,066	Nov. 14	1612	348	89	1272
Holder	C. T. King	620,145	Feh. 28	2478	562	86	1349
Holder. Combined	F. W. Manger	618,425	Jan. 31	3011	666	86	650
Hominy-mill	J. Beall	628,516	July 11	1070	249, 250	88	226
Hone. Electromagnetic	T. R. Smith	617,783	Jan. 17	1771	396	86	383
Honey-extractor. Centrifugal	A. Kuschel	622,156	Mar. 28	3005	679	86	2126
Hoodwink	I. H. Peppard	631,227	Aug. 15	2775	629	88	1303
Hoof-pad	F. T. Baldwin and M. E. Turnure	634,436	Oct. 3	879	212	89	177
Hoof-pad	H. O. Canfield	631,279	Aug. 22	2888	653	88	1342
Hoof-parer	M. Dapp	638,218	Dec. 5	18	6	89	1870
Hoof-trimming nippers	J. D. Decelle	630,670	Aug. 8	1799	405	88	1086
Hook:							
See Back-band hook.							
See Holdhack-hook.							
See Cant-hook.							
See Lacing-hook.							
See Car-coupling hook.							
See Ladder-hook.							
See Chain-hook.							
See Lifting-hook.							
See Check-hook.							
See Log-hook.							
See Checkrein-hook.							
See Mail-catcher hook.							
See Clothes-hook.							
See Pail-hook.							
See Coat and hat hook.							
See Safety-hook.							
See Door-hook.							
See Separable hook.							
See Door or like hook.							
See Sheep-hook.							
See Fire-hose supporting-hook.							
See Singletree-hook.							
See Skirt-hook.							
See Fish-hook.							
See Slash or hill hook.							
See Garment-hook.							
See Snag-hook.							
See Grab-hook.							
See Snap-hook.							
See Hame-hook.							
See Thill-hook.							
See Hat, coat, and umbrella hook.							
See Trace-hook.							
See Trap-hook.							
See Hat and garment hook.							
See Trousers-hook.							
See Whiffletree-hook.							
See Hoisting-hook.							
Hook	Z. Hand	626,904	June 13	1306	287	87	1885
Hook	K. Williams	629,640	July 25	3145	732	88	667
Hook and eye	F. P. Ayer	627,469	June 27	2347	516	87	2127
Hook and eye	W. H. Crist	625,022	May 16	1956	438	87	1120
Hook and eye	I. P. Doolittle	635,529	Oct. 24	2908	664	89	623
Hook and eye	A. F. German	633,718	Sept. 26	2870	667	88	2310
Hook and eye	E. W. Groeschel	628,143	July 4	349	83	88	71
Hook and eye	H. C. Henze	618,093	Jan. 24	2365	528	86	513
Hook and eye	J. T. Hope	620,993	Mar. 14	864	188	86	1681
Hook and eye	E. Markie	621,118	Mar. 14	1098	239	86	1725
Hook and eye	D. L. M. McIntyre	628,604	July 11	1219	286	88	256
Hook and eye	B. F. Orewiler	628,674	July 11	1384	324	88	287
Hook and eye	I. H. Paul, Jr	619,706	Feb. 14	1665	382	86	1152
Hook and eye	W. W. Pierce	628,634	July 11	1318	307	88	274
Hook and eye	W. S. Richardson	631,752	Aug. 22	3757	843	88	1512
Hook and eye	W. G. Templeton	637,535	Nov. 21	2517	546	89	1463
Hook and eye	E. W. and N. Weiss	621,190	Mar. 14	1221	268	86	1751
Hook-and-eye fastening	A. H. Cohh	636,761	Nov. 14	1021	219	89	1155
Hook-guard	C. A. Brink	622,202	Apr. 4	10	2	87	4
Hooks, &c., to straps. Device for attaching	H. T. Detert	630,193	Aug. 1	861	185	88	892
Hoop:							
See Barrel-hoop.							
See Metal hoop.							
See Embroidery-hoop.							
Hoop	G. M. Depew	626,678	June 13	842	192	87	1797
Hoop former. Barrel-	T. Johnson	634,172	Oct. 3	349	89, 90	89	72
Hoop-machine	J. Fowley	632,107	Aug. 29	4410	990, 991	88	1651

Alphabetical list of inventions—Continued.

Invention.	Name.	No.	Date.	Monthly volume.		Official Gazette.	
				Spec.	Dr'g.	Vol.	Page.
Hoop sizing and flaring machine	H. O. Hem	629,444	July 25	2774	645	88	597
Hoops on oval casks or the like. Machine for fixing	J. Leugering	619,258	Feb. 7	866	190	86	982
Hoops upon barrels or casks. Machine for driving	C. A. Neuhecker	625,409	May 23	2650	601 602	87	1277
Hooping wooden vessels. Device for	G. M. Clarke	624,178	May 2	431	89	87	782
Hop-hin	L. M. Myers	633,530	Sept. 19	2489	585	88	2221
Hopper for feeding grain, &c	J. N. Nutt	636,280	Nov. 7	101	23	89	942
Hopple	P. W. Amlie	627,040	June 13	1534	335	87	1930
Hopple	T. J. F. Müller	627,131	June 20	1699	373	87	1981
Hopple. Cow-	H. Bassett	620,634	Mar. 7	157	32	86	1532
Horse blinding device	J. F. Hughes	622,691	Apr. 11	933	215	87	197
Horse-boot	J. Galpin	617,153	Jan. 3	570	134	86	112
Horse-hoot	A. Shappell	625,810	May 30	3381	767	87	1437
Horse-hoot protector	J. D. Keller	639,995	Dec. 26	3341	765	89	2578
Horse-hreaking apparatus	J. Craig	639,215	Dec. 19	1887	435	89	2267
Horse-controller	D. R. Porter	622,261	Apr. 4	107	25	87	23
Horse-controlling apparatus	A. Whelan	626,581	June 6	652	151	87	1741
Horse-detacher	E. M. Brammell	622,662	Apr. 11	881	202	87	187
Horse-detacher	S. A. Haines	629,962	Aug. 1	440	94	88	809
Horse-detacher	W. P. Harper	618,665	Jan. 31	3440	767	86	732
Horse-detacher	J. T. Harrison	635,931	Oct. 31	3675	848	89	784
Horse-detacher	A. Kupper	619,583	Feb. 14	1420	327	86	1105
Horse-detacher	P. A. Nolan	619,432	Feh. 14	1184	267 268	86	1059
Horse-detacner	J. Orteig	628,956	July 18	1892	439	88	405
Horse-detacher	J. T. Peirce	625,695	May 23	3134	712	87	1371
Horse-detacher	A. L. Wilkie	630,432	Aug. 8	1365	305	88	1003
Horse-detacher and vehicle-guide	C. F. Kincheloe	618,419	Jan. 31	3002	664	86	648
Horse-hoof planer	A. J. Lytle	633,523	Sept. 19	2479	583	88	2220
Horse nose or feed bag	C. G. Maitland and C. McCallum	618,279	Jan. 24	2712	602	86	577
Horse-overshoe	J. Ricks	626,245	June 6	51	12	87	1624
Horse-power	J. C. Bowsher	622,110	Mar. 28	2920	662	86	2108
Horse-power	D. D. Bukey	631,198	Aug. 15	2727	617	88	1293
Horse-power	C. A. R. Desjardins	635,956	Oct. 31	3717	859	89	791
Horse-power	G. D. Wilson	633,978	Sept. 26	3316	772	88	2399
Horse-power and pumping-jack	B. F. Darlington and E. P. Clary	625,649	May 23	3066	698	87	1358
Horse-tail holder	G. T. Elkins	626,600	June 6	683	158	87	1747
Horse-tie	J. F. Deadman	625,747	May 30	3248	737	87	1412
Horse toe-weight	A. H. Fehr and J. W. Lovatt	619,947	Feh. 21	2120	480	86	1266
Horse vapor-bath	G. E. Atwater and T. C. Eldredge	624,420	May 2	865	194 195	87	867
Horses. Device for stopping runaway	A. B. J. Brown	626,317	June 6	185	45	87	1648
Horses' feet. Device for treating	C. A. Stuart	626,313	June 6	172	41	87	1646
Horses' feet. Spring-plate for	M. A. Churchill	620,740	Mar. 7	376	77	86	1575
Horses from vehicles. Automatic device for detaching	V. Wisniewski	619,457	Feb. 14	1222	278	86	1067
Horses' heads. Storm or sun shade for	S. C. Horn	626,424	June 6	384	90	87	1689
Horseshoe	G. H. Bresser	639,143	Dec. 12	1742	402	89	2226
Horseshoe	A. H. Bush	633,796	Sept. 26	2991	695	88	2335
Horseshoe	W. Cahill	629,234	July 18	2380	552	88	499
Horseshoe	B. H. Coats and C. L. Sponenhurgh	632,960	Sept. 12	1420	328	88	2002
Horseshoe	A. J. Davies	624,631	May 9	1257	281	87	966
Horseshoe	E. A. Frydenlund	635,242	Oct. 17	2330	544	89	493
Horseshoe	P. H. Graves	631,296	Aug. 22	2919	660	88	1348
Horseshoe	W. S. Hitch	619,745	Feb. 21	1748	400	86	1194
Horseshoe	G. J. Peacock	632,423	Sept. 5	382	87	88	1781
Horseshoe	E. Powell	631,751	Aug. 22	3756	842	88	1512
Horseshoe	E. W. Powers	626,768	June 13	1004	226	87	1827
Horseshoe	W. E. Shaw	628,590	July 11	1201	281	88	251
Horseshoe	A. Silkman and H. Sexton	617,780	Jan. 17	1764	395	86	381
Horseshoe	M. Stewart	622,559	Apr. 4	677	158	87	129
Horseshoe	C. B. Taylor	622,296	Apr. 4	183	40	87	34
Horseshoe	J. and K. Van Setres	618,189	Jan. 24	2564	567	86	550
Horseshoe and calk	H. N. Killson	632,576	Sept. 5	674	156	88	1840
Horseshoe-hars. Rolls for forming	E. Bumford	624,433	May 2	891	201	87	873
Horseshoe-calk	W. G. Brooks	639,658	Dec. 19	2707	622	89	2435
Horseshoe-calk	W. R. Kinnear	631,961	Aug. 29	4125	929	88	1595
Horseshoe-calk	C. Richter	619,995	Feh. 21	2198	500	86	1280
Horseshoe-calk	F. D. Wilt	626,743	June 13	955	217	87	1818
Horseshoe calk attachment	K. J. Gaitzsch	623,896	Apr. 25	3143	724	87	660
Horseshoe-calk sharpener	H. F. Smith	636,417	Nov. 7	314	71	89	984
Horseshoe-calk sharpener	H. I. Stanley	639,457	Dec. 19	2354	543	89	2362
Horseshoe. Cushioned	H. E. Bauer	620,878	Mar. 14	636	139	86	1640
Horseshoe. Elastic-tread	A. W. Crozier and G. Smith	617,319	Jan. 10	871	205	86	189
Horseshoe. Elastic-tread	W. R. Howe	621,090	Mar. 14.	1042	228	86	1714
Horseshoe. Elastic-tread	W. R. Howe	637,791	Nov. 28	3353	703	89	1688
Horseshoe. Elastic-tread	J. Patrick	640,166	Dec. 26	3640	838	89	2640
Horseshoe. Elastic-tread	H. Schmid	620,253	Feh. 28	2665	608	86	1383
Horseshoe. Elastic-tread	E. W. Stamm	639,201	Dec. 12	1858	428	89	2248
Horseshoe-finishing machine	O. Kniep	637,621	Nov. 21	3051	630	89	1607
Horseshoe-making machine	J. A. Burden	624,622	May 9	1239	278	87	963
Horseshoe. Metallic-rim ruhber-tread	D. B. Stephens	619,361	Feh. 14	1050	236	86	1035
Horseshoe-nail	A. W. Knight	639,405	Dec. 19	2256	520	89	2343
Horseshoe. Nailless	H. Broers	627,974	July 4	28	6	88	8
Horseshoe. Nailless	J. J. Hearst	624,650	May 9	1285	287	87	971
Horseshoe. Nailless	J. H. Hewitt and J. F. Edds	630,350	Aug. 8	1176	258	88	970
Horseshoe. Nailless	D. Kerekes	639,248	Dec. 19	1951	449	89	2281
Horseshoe-pad	D. Cruise	620,019	Feb. 21	2247	510	86	1289
Horseshoe-pad	W. S. Laycock	639,743	Dec. 26	2880	664	89	2486
Horseshoe-plate	E. Hegstedt	623,150	Apr. 18	1774	408	87	373
Horseshoe. Ruhher	G. W. Smith	639,105	Dec. 12	1683	388	89	2214
Horseshoe. Ruhher-cushioned	C. E. Galley	634,410	Oct. 3	829	200	89	166
Horseshoe. Soft-tread	L. E. Allen	627,085	June 20	1617	354	87	1965
Horseshoe. Soft-tread	E. B. Evans	630,204	Aug. 1	877	190	88	896
Horseshoe. Soft-tread	J. C. Higgins	627,691	June 27	2762	605	87	2208
Horseshoe. Soft-tread	J. C. Higgins	629,295	July 18	2483	579	88	517

Alphabetical list of inventions—Continued.

Invention.	Name.	No.	Date.	Monthly volume. Spec.	Monthly volume. Drg.	Official Gazette. Vol.	Official Gazette. Page.
Horseshoe. Soft-tread	H. Lagerquist	632,786	Sept. 12	1105	255	88	1942
Horseshoe. Soft-tread	C. and F. W. Mears	627,515	June 27	2425	533	87	2142
Horseshoe. Soft-tread	H. Paar	624,529	May 9	1077	242	87	931
Horseshoe. Soft-tread	W. H. Peter and H. A. Keigwin	626,091	May 30	3954	898	87	1544
Horseshoe. Soft-tread	W. E. Williams	637,913	Nov. 28	3590	752	89	1736
Horseshoe. Spring-	W. Hamilton	639,972	Dec. 26	3298	755	89	2570
Horseshoe. Spring-heel	J. Trainer	637,219	Nov. 14	1923	412	89	1329
Horseshoe studs or calks. Apparatus for manufacturing	R. Hornsteiner	621,818	Mar. 28	2381	532	86	2003
Horseshoe-toe-calk machine	J. T. Varney	618,150	Jan. 24	2484	552	86	536
Horseshoes. Clamp for attaching soft treads to	C. H. Beardsley and G. N. Talcott	631,147	Aug. 15	2647	599	88	1276
Horseshoes. Ice-creeper for	W. S. Jones	631,544	Aug. 22	3379	766	88	1441
Horseshoes. Machine for making heel-calks on	O. Kniep	622,493	Apr. 4	550	129	87	104
Horseshoeing-rack	T. Herberg	633,758	Sept. 26	2934	681	88	2322
Horseshoeing-stall	E. F. Watson	630,276	Aug. 1	998	220	88	920
Hose and nozzle holder	J. M. Dungan	622,132	Mar. 28	2964	671	86	2118
Hose and pipe cleaning appliance	J. S. Bowman and W. E. Graham	618,051	Jan. 24	2269	506	86	496
Hose-bridge. Folding and interlocking	J. Greenhouse	626,421	June 6	381	89	87	1688
Hose carrier and support. Combined	H. F. Peacock	633,899	Sept. 26	3170	736	88	2371
Hose, &c. Clamp for stopping leaks in	W. W. Green	625,257	May 16	2377	539	87	1198
Hose-clamping device	A. M. Burgher	633,790	Sept. 26	2984	692	88	2334
Hose-coupling	C. C. Abbey and W. C. Philips	620,821	Mar. 7	525	112	86	1605
Hose-coupling	A. W. Billman	636,314	Nov. 7	149	33	89	951
Hose-coupling	J. Collette	628,765	July 11	1544	357	88	321
Hose-coupling	A. J. Conley	625,831	May 30	3420	776	87	1444
Hose-coupling	J. A. McCrory	623,416	Apr. 18	2254	516	87	470
Hose-coupling	E. A. Miller and T. E. Christman	617,591	Jan. 10	1389	315	86	289
Hose-coupling	W. G. Miller and W. L. Harris	625,783	May 30	3319	754	87	1425
Hose-coupling	H. O. Paul	621,276	Mar. 14	1381	306	86	1782
Hose-coupling	H. E. Reinisch	620,497	Feb. 28	3069	701	86	1461
Hose-coupling	H. Zimmerman	627,664	June 27	2718	595	87	2200
Hose-coupling. Air-brake	J. Cadwell	629,657	July 25	3165	738	88	671
Hose-coupling guard	A. B. Quimby	618,905	Feb. 7	149	32,33	86	834
Hose-coupling implement	J. Vander Stel	638,823	Dec. 12	1190	266	89	2118
Hose. Cut-off valve for	W. H. Laing	618,472	Jan. 31	3082	603	86	663
Hose-gate	E. S. Clarke	628,391	July 4	825	193	88	158
Hose-holder	W. H. Trammel	619,517	Feb. 14	1323	303	86	1089
Hose. Knitted fabric for hydraulic	G. E. Stevens	630,783	Aug. 8	1975	446	88	1121
Hose-leak stop	C. J. Dorticus	629,315	July 18	2529	588	88	527
Hose. Machine for making	B. O. Hale	625,951	May 30	3640	827, 828	87	1486
Hose. Machine for washing	J. Askins	625,011	May 16	1938	435	87	1117
Hose-making machine	F. H. Brewster	626,049	May 30	3873	878, 879	87	1529
Hose mender or coupling	H. Deitz	626,210	May 30	4207	956	87	1591
Hose-nozzle	J. Busha	625,871	May 30	3499	793	87	1460
Hose-nozzle	J. Busha	633,069	Sept. 12	1596	372	88	2037
Hose-nozzle	E. Cliff	627,073	June 13	1589	348	87	1940
Hose-nozzle	M. H. Hart	628,907	July 11	1807	421	88	372
Hose-nozzle. Self-closing	F. D. Bartlett	623,128	Apr. 18	1726	399	87	364
Hose-reel	E. Cliff	618,494	Jan. 31	3131	692, 693	86	672
Hose-reel device	C. Nuhring	618,126	Jan. 24	2430	542	86	526
Hose safety device. Hydraulic	J. Muskett	628,018	July 4	110	22	88	23
Hose shut-off	J. J. Forcier	636,971	Nov. 14	1424	305	89	1234
Hose signal system. Electric	H. Sargent	621,854	Mar. 28	2446	545	86	2016
Hose-stripping apparatus	D. C. Carr	640,091	Dec. 26	3507	804	89	2613
Hose support. Garden-	J. H. Miller	631,317	Aug. 22	2961	669	88	1357
Hose-supporter	H. C. Krause	624,503	May 9	1026	231	87	920
Hose-supporter	B. F. Orewiler	631,659	Aug. 22	3580	807	88	1481
Hose-supporter	R. W. Parramore	629,391	July 25	2677	624	88	577
Hose-supporter	E. F. Young	638,540	Dec. 5	668	140	89	1993
Hose-supporter. Overhead	C. Utman	635,364	Oct. 24	2562	596	89	555
Hose. Tool for attaching bands to	T. De Laney	625,492	May 23	2800	637	87	1306
Hose-washer	E. O. Porter	619,220	Feb. 7	798	174	86	968
Hot-air and hot-water heater	E. and V. P. Adams	626,660	June 13	801	183	87	1789
Hot-air blower-furnace	H. Baetz	617,432	Jan. 10	1107	253	86	234
Hot-air furnace	J. Booker	639,510	Dec. 19	2436	563	89	2379
Hot-air furnace	P. F. Filliez	621,806	Mar. 28	2360	528	86	1999
Hot-air furnace	W. H. Hillyer	639,571	Dec. 19	2553	586	89	2403
Hot-air furnace	G. W. Miskimen, Jr	633,466	Sept. 19	2387	561	88	2202
Hot-air furnace	L. S. Pfouts	627,525	June 27	2443	537, 538	87	2146
Hot-air furnace	J. O. Seaborg and C. Christensen	622,278	Apr. 4	138	32	87	29
Hot-air furnace	J. Timms	639,465	Dec. 19	2367	545	89	2365
Hot-air furnace for domestic heating purposes	C. E. Duryea	625,250	May 16	2362	537	87	1196
Hot-air heater. Electrical	J. A. Elliott	628,702	July 11	1437	334	88	299
Hot-air register	T. M. Dils	622,330	Apr. 4	233	52	87	44
Hot-air register and ventilator	W. S. Tuttle	623,343	Apr. 18	2123	487, 488	87	444
Hot-air register or ventilator	S. Tuttle	618,589	Jan. 31	3300	733	86	705
Hot-air registers. Dust-arrester for	I. A. Mertins	637,519	Nov. 21	2484	539	89	1456
Hot-blast box	S. E. Bretherton	624,748	May 9	1458	329	87	1007
Hot-plate	J. K. Smith	633,049	Sept. 12	1568	365	88	2030
Hot-water-circulating apparatus	R. R. Gibbs	621,999	Mar. 28	2733	617	86	2071
Hot-water heater	A. F. Buttrick	619,542	Feb. 14	1359	313	86	1095
Hot-water heater	W. H. Page	625,514	May 23	2833	645	87	1312
Hot-water heater	W. H. Page	633,897	Sept. 26	3166	735, 736	88	2370
Hot-water heater	W. J. Walsh	622,575	Apr. 4	700	163	87	133
Hot-water heater. Tubular	J. E. Evans and W. Curtis	630,674	Aug. 8	1804	406, 407	88	1087
Hotel or club register	C. F. Hoffman	623,018	Apr. 11	1503	348	87	307
Hotel register	J. F. Drury	617,645	Jan. 10	1489	339, 340	86	310
Hotel-register	J. G. A. Wunder	627,036	June 13	1527	333	87	1928

Alphabetical list of inventions—Continued.

Invention.	Name.	No.	Date.	Monthly volume. Spec.	Monthly volume. Dr'g.	Official Gazette. Vol.	Official Gazette. Page.
House: *See* Malt-house. Smoke-house. Portable house. Toy house.							
House-tank. Automatic pressure	E. W. Aller	631,604	Aug. 22	3495	789	88	1464
Household use. Combination article for	C.E.McLaughlin and E.H.Williams	626,553	June 6	607	140	87	1732
Hub and axle	G. H. Clark	623,277	Apr. 18	2004	460	87	420
Hub and axle	A. Hodgson	623,784	Apr. 25	2926	669	87	618
Hub and axle connection. Wheel-	F. E. Garner	619,561	Feb. 14	1390	319, 320	86	1100
Hub-attaching device	A. W. Anthoine	622,878	Apr. 11	1261	291	87	258
Hub-attaching device	J. A. Peek	624,968	May 16	1872	420, 421	87	1104
Hub-attaching device	H. N. Thayer	631,972	Aug. 29	4145	933	88	1599
Hub-attaching device	D. Warner	636,700	Nov. 7	849	189	89	1095
Hub. Ball-bearing	G. Simpson	622,868	Apr. 11	1231	286	87	253
Hub band-shell. Wheel-	H. Higgin	624,935	May 16	1821	408	87	1093
Hub-cap	H. Higgin	624,936	May 16	1822	409	87	1094
Hub. Carriage-wheel	D. Quintal	629,467	July 25	2814	654	88	605
Hub dust-shield. Vehicle-	H. C. Burch and J. W. Walling	636,628	Nov. 7	720	158	89	1067
Hub for vehicle-wheels. Resilient	W. E. Carmont	635,231	Oct. 17	2315	540	89	490
Hub for wheels of velocipedes, &c	E. Germaine	628,791	July 11	1590	366	88	331
Hub for wheels. Split	J. J. Scholfield	629,525	July 25	2947	686	88	630
Hub-securing device. Vehicle-	H. P. Childress	639,212	Dec. 19	1883	434	89	2266
Hub. Vehicle-	W. D. Gemmill	638,387	Dec. 5	383	81	89	1939
Hub. Vehicle-	S. B. McHenry	637,645	Nov. 21	3087	638	89	1614
Hub. Vehicle-	E. McHugh	635,575	Oct. 24	2991	686	89	637
Hub. Vehicle-	H. G. Olds	622,254	Apr. 4	93	21	87	22
Hub. Vehicle-wheel	C. C. Ballin	629,229	July 18	2371	550, 551	88	497
Hub. Vehicle-wheel	J. Hartshorn	630,883	Aug. 15	2155	490	88	1181
Hub. Vehicle-wheel	A. B. Stone	618,749	Jan. 31	3584	800	86	761
Hub. Wheel-	W. I. Ludlow	623,409	Apr. 18	2238	512	87	467
Hub. Wheel-	R. F. A. MacKinnon	628,823	July 11	1648	381	88	343
Hub. Wheel-	A. S. Reed	622,635	Apr. 4	805	187	87	153
Hub. Wheel-	F. P. White	631,350	Aug. 22	3012	683	88	1368
Hub-wrench	H. Sauls and G. S. Cook	636,456	Nov. 7	378	85	89	997
Hubs from tubular blanks. Machine for forming wheel-	F. L. Moore	638,183	Nov. 28	4117	869, 870	89	1839
Hubs. Pattern for casting metal	S. C. Yost	638,616	Dec. 5	812	175	89	2021
Humidifier	A. L. Jones	632,185	Aug. 29	4571	1029	88	1683
Humidifier	R. C. Ulbrich	629,181	July 18	2300	534	88	484
Humidifier	G. W. Voelker	620,385	Feb. 28	2894	668	86	1428
Hunting-knife	W. J. Shelton	632,590	Sept. 5	693	160	88	1843
Husking-knife	J. C. Burton	626,854	June 13	1184	263	87	1861
Hydrant	C. L. Burkhart	637,077	Nov. 14	1630	352	89	1275
Hydrant	E. F. Duffy	618,169	Jan. 24	2532	560	86	543
Hydrant	W. A. Graham	627,111	June 20	1664	363	87	1974
Hydrant	W. F. Koper	624,502	May 9	1024	231	87	919
Hydrant	C. E. Loetzer	631,545	Aug. 22	3381	766	88	1441
Hydrant	J. F. Mallinckrodt	630,985	Aug. 15	2354	536	88	1219
Hydrant	J. F. Mallinckrodt	636,909	Nov. 14	1305	280	89	1212
Hydrant	W. F. Zell	617,848	Jan. 17	1891	422	86	408
Hydrant and hopper rod and handle	J. H. Murray	625,590	May 23	2962	673	87	1337
Hydrant-plug	N. R. Wilson and J. D. Perkins	639,641	Dec. 19	2679	614	89	2429
Hydraulic accumulator	C. N. Dutton	635,847	Oct. 31	3510	806, 807, 808	89	752
Hydraulic accumulator mechanism	T. F. Rowland	622,655	Apr. 4	859	197	87	163
Hydraulic apparatus	J. Robertson	629,611	July 25	3097	721	88	658
Hydraulic chair	F. Koenigkramer	629,037	July 18	2031	473	88	433
Hydraulic cylinders. Automatic check for	C. N. Dutton	635,848	Oct. 31	3514	808	89	753
Hydraulic engine	G. Donges and H. Petesch	627,399	June 20	2218	489	87	2084
Hydraulic engine and pump. Combined	E. H. Weatherhead	623,297	Apr. 18	2041	468, 469	87	427
Hydraulic jack	J. Weeks	617,135	Jan. 3	533	127	86	104
Hydraulic machinery	R. H. Stevens	617,913	Jan. 17	2028	453	86	434
Hydraulic motor	F. J. Hagen	627,925	June 27	3182	697	87	2295
Hydraulic motor	W. Haywood	619,479	Feb. 14	1253	287, 288	86	1073
Hydraulic motor	A. H. Lighthall	624,352	May 2	744	167	87	842
Hydraulic motor and air-compressor	T. O. Perry	629,869	Aug. 1	214	49	88	762
Hydraulic-power machine	A. L. Rinearson	622,978	Apr. 11	1427	329	87	292
Hydraulic press	A. Euston	631,285	Aug. 22	2898	655, 656	88	1344
Hydraulic press	A. Euston	631,286	Aug. 22	2901	656	88	1345
Hydraulic press. Reciprocating	C. W. and M. J. Greenwood	631,789	Aug. 29	3843	856	88	1539
Hydraulic rocking-press	H. M. Crowell	634,719	Oct. 10	1383	326	89	293
Hydrocarbon-burner	J. J. Anderson	630,580	Aug. 8	1641	367	88	1056
Hydrocarbon-burner	A. A. Arnott	618,371	Jan. 24	2873	638	86	608
Hydrocarbon-burner	J. E. Bancroft	626,405	June 6	362	85	87	1684
Hydrocarbon-burner	E. E. Crook	623,518	Apr. 25	2433	558	87	526
Hydrocarbon-burner	C. M. Gray	638,659	July 11	1362	318	88	283
Hydrocarbon-burner	G. Heysel	622,146	Mar. 28	2992	676	86	2123
Hydrocarbon-burner	H. Howard	634,642	Oct. 10	1234	293, 294	89	263
Hydrocarbon-burner	J. J. Jordan and C. Thiele	630,893	Aug. 15	2179	495	88	1186
Hydrocarbon-burner	J. A. Mason	628,826	July 11	1652	382	88	343
Hydrocarbon-burner	O. P. Moon and H. L. Marbach	621,932	Mar. 28	2596	585, 586	86	2044
Hydrocarbon-burner	E. G. Mummery	621,696	Mar. 21	2140	476	86	1943
Hydrocarbon-burner	H. Ruppel	625,124	May 16	2148	487, 488	87	1155
Hydrocarbon-burner	P. Sheedy and T. Carrick	621,431	Mar. 21	1642	364	86	1845
Hydrocarbon-burner	G. H. and P. J. Shermau	618,139	Jan. 24	2457	548	86	531
Hydrocarbon-burner	G. H. and P. J. Sherman	620,678	Mar. 7	249	51	86	1550
Hydrocarbon-burner	J. F. Shultz	639,302	Dec. 19	2047	471	89	2301
Hydrocarbon-burner	G. M. Swarthout	626,509	June 6	538	124	87	1718

Alphabetical list of inventions—Continued.

Invention.	Name.	No.	Date.	Monthly volume.		Official Gazette.	
				Spec.	Dr'g.	Vol.	Page.
Hydrocarbon-burner	E. Van Note	618,149	Jan. 24	2481	551	86	535
Hydrocarbon-burner for incandescent lights	V. H. Slinack	630,996	Aug. 15	2369	539	88	1222
Hydrocarbon-burner lighting device	O. P. Moon	621,933	Mar. 28	2598	586	86	2044
Hydrocarbon burner. Liquid-	J. Charles	627,176	June 20	1774	388	87	1997
Hydrocarbon-burning apparatus	D. Simmons	630,751	Aug. 8	1919	433	88	1109
Hydrocarbon-burning apparatus	G. Tresenreuter	617,893	Jan. 17	1986	443	86	427
Hydrocarbon generator and burner	F. De Voe	631,779	Aug. 29	3823	852	88	1536
Hydrocarbon lighting apparatus	R. L. Doran	628,079	July 4	220	51	88	45
Hydrocarbon-lighting burner	T. Wilson	619,380	Feb. 14	1083	244	86	1042
Hydrocarbon-liquid burner	H. Ogborn	624,372	May 2	772	173, 174	87	848
Hydrocarbon-motor. Valveless two-cycle	F. Dürr	625,387	May 23	2613	594	87	1270
Hydrocarbon-oil burner	W. C. Salmon	639,097	Dec. 12	1670	386	89	2212
Hydrocarbon-oil-burning apparatus	J. S. Hull	635,071	Oct. 17	2002	473, 474	89	432
Hydrocarbon-oil-burning apparatus	W. J. Jackman	634,463	Oct. 10	933	222	89	204
Hydrocarbon vapor or gas generator	G. Washington	619,059	Feb. 7	500	105	86	908
Hydrocarbons, &c. Apparatus for storing	J. Smith	636,076	Oct. 31	3995	913, 914	89	847
Hydrocarbons. Combustion of liquid	M. Body	630,282	Aug. 1	1014	223	88	923
Hydrogen. Apparatus for producing carbureted	J. Fielding	629,317	July 18	2533	589, 590	88	528
Hydrogen peroxid. Apparatus for manufacturing	S. Rosenblum and C. J. Yarnold	634,093	Oct. 3	191	48	89	42
Hydrothermostat	P. I. Moule	636,682	Nov. 7	817	181	89	1088
Hygroscope	F. Renzo	639,935	Dec. 26	3223	739	89	2554
Ice and production of cold, &c. Manufacture of	C. Tellier	628,150	July 4	361	86	88	73
Ice. Apparatus for clearing channels of broken	O. Mölbach	620,344	Feb. 28	2827	644	86	1414
Ice. Apparatus for planing cakes of	J. N. Briggs. (Reissue)	11,739	May 9	1739	393	87	1061
Ice. Apparatus for producing crystal	F. Boes	617,849	Jan. 17	1893	422	86	409
Ice-box-lid retainer	E. L. Evans	624,465	May 9	956	213	87	908
Ice-breaker. Rotary	W. Tunstill	626,042	May 30	3866	876	87	1528
Ice-cream cabinet	C. Nelson	621,273	Mar. 14	1375	305	86	1781
Ice-cream delivery-package	G. W. and J. G. Pierce	621,279	Mar. 14	1385	306	86	1783
Ice-cream disher or dipper	P. Howell	618,205	Jan. 24	2586	572	86	554
Ice-cream-dispensing apparatus	A. L. Goodman	618,046	Jan. 17	2262	504	86	478
Ice-cream freezer	F. P. Burr	637,078	Nov. 14	1631	353	89	1275
Ice-cream freezer	D. C. Bymaster	618,811	Jan. 31	3690	827	86	782
Ice-cream freezer	E. A. Gilbert	621,563	Mar. 21	1900	425	86	1893
Ice-cream freezer	E. D. Middlekauff	622,248	Apr. 4	82	19	87	19
Ice-cream freezer	J. P. Perkins	637,893	Nov. 28	3559	746	89	1730
Ice-cream freezer	L. D. Railsback	631,817	Aug. 29	3882	866, 867	88	1547
Ice-cream freezer	T. Sands	626,869	June 13	1229	271, 272	87	1869
Ice-cream freezer	W. B. Smith	633,621	Sept. 26	2699	628	88	2275
Ice-cream freezer	S. Sweeney	632,856	Sept. 12	1227	281	88	1967
Ice-cream freezer and churn. Convertible	W. J. Shaffer	620,615	Mar. 7	121	25	86	1526
Ice-cream-freezer clamping-bench	R. Kirk	624,343	May 2	730	162	87	840
Ice-cream mold and measure	F. E. Schmits	626,468	June 6	462	109	87	1703
Ice-cream package	J. N. Burton	639,194	Dec. 12	1848	425	89	2246
Ice-creeper	C. G. Blandford	618,774	Jan. 31	3621	808	86	768
Ice-creeper	O. Feher	637,221	Nov. 14	1927	412	89	1330
Ice-creeper	O. Galarneau	625,330	May 23	2523	574	87	1252
Ice-creeper	R. C. Goff	620,582	Mar. 7	54	11	86	1513
Ice-creeper	G. W. Rush	638,069	Nov. 28	3873	815	89	1791
Ice-creeper	L. P. Wentzell	638,825	Dec. 12	1192	267	89	2119
Ice-creeper. Detachable	C. Feather and A. T. Saxton	628,263	July 4	583	138	88	113
Ice-crusher	R. B. Proctor	625,201	May 16	2264	515	87	1177
Ice-cutter	G. A. Ames	633,410	Sept. 19	2300	540, 541	88	2185
Ice-cutting machine	C. H. Edmands	622,797	Apr. 11	1101	257	87	228
Ice-cutting machine	E. E. Jones	629,964	Aug. 1	443	95	88	810
Ice floor for skating-rinks, &c	A. G. Anderson	632,035	Aug. 29	4267	959	88	1623
Ice-forming apparatus	P. Martin	622,860	Apr. 11	1217	284	87	250
Ice-machine	H. F. Hodges	619,042	Feb. 7	465	97	86	900
Ice-machine compressor	E. L. Sharpneck	636,459	Nov. 7	383	85, 86	89	998
Ice-machines. Gas pump for	J. J. Faulkner	618,004	Jan. 17	2171	484, 485	86	462
Ice making and cutting machine	C. B. Harris	638,577	Dec. 5	727	155, 156	89	2005
Ice-making apparatus	A. H. Hutchinson	634,350	Oct. 3	731	174, 175	89	146
Ice-making, &c. Apparatus for	A. Glasson	634,335	Oct. 3	706	168	89	142
Ice-marker	H. Bodenstein	624,162	May 2	414	85	87	779
Ice. Method of and apparatus for making	J. Humes	625,447	May 23	2723	619, 620	87	1290
Ice-motor	F. S. Farr and C. F. Nyberg	626,322	June 6	196	48, 49	87	1650
Ice plow or marker	J. G. Bodenstein	621,598	Mar. 21	1955	437	86	1905
Ice-tongs	W. F. Altenbaugh	621,199	Mar. 14	1233	271	86	1753
Ice-tongs	I. Burk	618,640	Jan. 31	3387	753	86	721
Ice-tongs	J. C. Cook	632,176	Aug. 29	4541	1024	88	1676
Ice-tongs	W. G. Stinchcomb and J. Streitz	618,748	Jan. 31	3583	799	86	760
Ice-weighing tongs	W. T. Carter	626,052	May 30	3883	882	87	1531
Ichthyol odorless. Rendering	H. Vieth	625,480	May 23	2768	------	87	1299
Igniter. Electric	C. D. Wright	637,057	Nov. 14	1589	343	89	1268
Igniter plant. Portable	A. W. Crosby	636,244	Nov. 7	22	6	89	929
Igniting device	C. F. P. Stendebach	635,155	Oct. 17	2189	511	89	467
Igniting device. Automatic	C. F. P. Stendebach	633,167	Sept. 19	1826	429, 430	88	2093
Igniting-sparks. Apparatus for producing	M. Osterberg and A. Fischer	625,410	May 23	2651	602	87	1277
Illuminating contrivance	H. Gantke	639,724	Dec. 26	2841	654	89	2478
Illuminator	J. H. Sprague	623,576	Apr. 25	2545	585	87	546
Image-forming mechanism	F. H. Richards	636,062	Oct. 31	3934	901, 902, 903	89	835
Image-forming mechanism	F. H. Richards	636,063	Oct. 31	3948	904, 905	89	838

Alphabetical list of inventions—Continued.

Invention.	Name.	No.	Date.	Monthly volume. Spec.	Monthly volume. Dr'g.	Official Gazette. Vol.	Official Gazette. Page.
Image-forming mechanism	F. H. Richards	636,064	Oct. 31	3960	906, 907, 908	89	840
Impact-tool	T. H. Phillips	622,165	Mar. 28	3030	686	86	2131
Implement. Combination	F. R. Bignold	631,247	Aug. 15	2826	637, 638	88	1313
Implement-handle	W. H. Riffel	630,073	Aug. 1	663	142	88	854
Incandescent arc-light	W. S. Hadaway, Jr	620,308	Feb. 28	2764	633	86	1403
Incandescent bodies. Manufacturing durable	A. Koch	634,984	Oct. 17	1849	------	89	401
Incandescent bulb and shade remover	J. J. Rhine	623,180	Apr. 18	1830	419	87	384
Incandescent burner	G. Himmel	621,567	Mar. 21	1905	426	86	1894
Incandescent burner	G. Himmel	632,350	Sept. 5	253	60	88	1757
Incandescent burner	J. B. de Léry	620,338	Feb. 28	2819	643	86	1413
Incandescent burner	W. J. Smart	638,768	Dec. 12	1095	245	89	2101
Incandescent burner for liquid fuel	R. Adam	622,585	Apr. 4	723	168	87	137
Incandescent-burner glow-body	G. Kohl	623,723	Apr. 25	2788	------	87	591
Incandescent-burner glow-body	G. Kohl	623,724	Apr. 25	2789	------	87	591
Incandescent burner. Petroleum	C. C. Bruckner	633,117	Sept. 19	1727	405	88	2073
Incandescent burners. Electric lighter for	C. T. Farnham	631,628	Aug. 22	3531	795	88	1471
Incandescent light. Welsbach or similar	L. Moss	619,599	Feb. 14	1447	333	86	1110
Incandescent mantle	J. Lederer	622,960	Apr. 11	1402	322	87	286
Incandescent mantle and making same	S. Cohn	620,017	Feb. 21	2245	509	86	1289
Incandescent mantle and making same	F. Fritz	628,787	July 11	1582	------	88	329
Incandescent-mantle support	A. S. Newby	640,014	Dec. 26	3364	770	89	2583
Incandescent-mantle support	F. W. Poland	637,942	Nov. 28	3643	764	89	1746
Incandescent-mantle support	L. Stiassny	633,052	Sept. 12	1572	366	88	2031
Incandescent mantles. Apparatus for trimming Welsbach or other	G. S. Barrows	628,595	July 11	1207	282, 283	88	253
Incandescent mantles. Machine for folding and inserting shirring-strings into	H. E. White	619,375	Feb. 14	1074	241, 242	86	1040
Incandescent mantles. Machine for inserting shirring-strings into blanks of	B. von Bültzingslöwen	638,004	Nov. 28	3769	790, 791, 792	89	1770
Incandescent mantles. Machine for treating	J. H. Abercrombie	639,331	Dec. 19	2103	483	89	2313
Incandescent mantles. Machine for treating	J. H. Abercrombie	639,332	Dec. 19	2106	484	89	2313
Incandescent mantles. Machine for treating	J. H. Abercrombie	639,333	Dec. 19	2110	484, 485	89	2314
Incandescent mantles. Package for	H. Anhaltzer	631,689	Aug. 22	3630	818	88	1491
Inclined elevator	J. W. Reno	637,526	Nov. 21	2497	541, 542	89	1459
Incubator	E. W. Andrews	638,309	Dec. 5	232	48	89	1911
Incubator	G. Ertel	633,439	Sept. 19	2344	553	88	2194
Incubator	G. A. McFetridge	620,486	Feb. 28	3049	697, 698	86	1457
Incubator	G. A. McFetridge	630,487	Feb. 28	3052	698	86	1457
Incubator	H. M. and W. B. Sheer	619,095	Feb. 7	563	120	86	921
Incubator	C. Von Culin	619,521	Feb. 14	1330	305	86	1090
Incubator	C. S. Wilson	617,547	Jan. 10	1306	295	86	274
Incubator heating apparatus	A. W. Bessey	638,168	Nov. 28	4087	862	89	1831
Incubator or brooder tank	M. M. Johnson	630,355	Aug. 8	1181	259	88	971
Index	H. L. Hall	639,031	Dec. 12	1554	351	89	2189
Index	B. D. Lé Gras	629,573	July 25	3012	703	88	642
Index	W. W. Simpson	629,214	July 18	2351	546	88	493
Index. Card	E. J. Bein	627,967	July 4	12	3	88	5
Index. Card	C. S. Gilman	622,648	Apr. 4	845	194	87	160
Index. Card	F. Macey	639,747	Dec. 26	2888	665	89	2488
Index-holder	J. P. MacLearn	626,179	May 30	4150	944	87	1580
Index-leaf	W. N. Winfield	624,718	May 9	1406	315	87	996
Index. Telephone	H. L. Allen	627,465	June 27	2340	515	87	2126
Indexical card-list	A. W. Shaw and C. E. Wilson	632,758	Sept. 12	1044	242, 243	88	1928
Indicating and recording apparatus. Electromechanical	C. E. Vernon and A. Ross	638,893	Dec. 12	1311	298	89	2142
Indicating and recording mechanism for measuring fluids in motors, &c	J. E. Thebaud	619,632	Feb. 14	1516	346, 347	86	1124
Indicating and registering distances, &c. Apparatus for	J. Ridge, T. Mutton, and H. E. Hupton.	628,037	July 4	140	29, 30	88	29
Indicator: *See* Annunciator-indicator. Book page-indicator. Car speed-indicator. Car street-indicator. Center-indicator. Clock-winding indicator. Electric indicator. Electrical indicator. Elevator-indicator. Engine-indicator. Game-indicator. Gas-leak indicator. Hawser-indicator. Heat or cold indicator. Interest-indicator. Ledger balance-indicator. Liquid-level indicator. Locomotive draft-indicator. Mail-box indicator. Mail-box time-indicator. Medicine-dose indicator. Medicine time-indicator. Office-indicator. Office-door indicator. Post-office-box time-indicator. Pressure-indicator. Railway-indicator. Railway speed-indicator. Signal-indicator. Sound-indicator. Speed-indicator. Station-indicator. Stock-quotation indicator. Street and station indicator. Temperature-indicator. Towing-indicator. Train-despatcher's indicator. Valve-indicator. Weight and pressure indicator.							
Indicator	A. Custodis	620,702	Mar. 7	305	61	86	1560
Indicator	H. Stelling	624,562	May 9	1143	256	87	944
Indicator	T. A. Tribble	634,485	Oct. 10	970	232	89	211

Alphabetical list of inventions—Continued.

Invention.	Name.	No.	Date.	Monthly volume.		Official Gazette.	
				Spec.	Dr'g.	Vol.	Page.
Indicator	G. J. Vandegrift and J. C. Webb	628,900	July 11	1790	417	88	368
Indicator	D. H. Verneuille	636,368	Nov. 7	237	52	89	968
Indicator for use in testing materials	G. C. Henning	631,540	Aug. 22	3364	765	88	1437
Indigo and making it. Dimethyl	K. Heumann	619,883	Feb. 21	2018	------	86	1246
Indigo. Making	B. Heymann	626,231	June 6	26	------	87	1620
Induction apparatus	T. B. Kinraide	623,316	Apr. 18	2071	475, 476	87	434
Induction-coil	M. E. Fuld	620,027	Feb. 21	2259	512	86	1292
Induction-motor	E. W. Rice, Jr., and C. P. Steinmetz	620,966	Mar. 14	811	179	86	1671
Infusions. Device for making	E. C. C. Stanford	629,878	Aug. 1	236	53	88	766
Ingot-extractor	J. Kennedy	628,473	July 11	981	227	88	209
Ingot-mold. Compound	S. A. Cosgrave	638,909	Dec. 12	1343	306	89	2148
Ingot mold. Steel-	H. L. Gantt	621,646	Mar. 21	2041	456	86	1922
Ingots. Apparatus for making compound metal	J. O. E. Trotz	639,005	Dec. 12	1522	348	89	2183
Ingots, billets, &c. Device for manipulating	J. J. McNeill	639,270	Dec. 19	1983	457	89	2288
Ingots. Machine for and process of shaping and stretching metallic	L. D. Davis	627,455	June 20	2316	510, 511	87	2104
Ingots. Making compound	S. A. Cosgrave	638,961	Dec. 12	1428	326, 327	89	2165
Ingots. Manufacture of compound	S. A. Cosgrave	638,908	Dec. 12	1340	305, 306	89	2148
Inhaler	C. H. Curran	631,621	Aug. 22	3516	792	88	1468
Inhaler	L. M. Francis	636,786	Nov. 14	1073	229	89	1165
Inhaler	E. E. Gardner and J. G. Smith	639,808	Dec. 26	3003	691	89	2511
Inhaler	G. M. Merritt	622,701	Apr. 11	944	218	87	199
Inhaler	E. Rowland	627,928	June 27	3188	698	87	2296
Inhaler	W. Wagner	629,482	July 25	2858	664	88	611
Inhaler holder. Medicinal-	G. O. Shakespeare	618,211	Jan. 24	2594	573	86	555
Inhaling and spraying apparatus	J. H. Casford	626,751	June 13	970	220	87	1820
Inhaling apparatus	V. Koch	631,575	Aug. 22	3444	778	88	1453
Inhaling apparatus	F. and F. Wanz	629,833	Aug. 1	145	33, 34	88	749
Inhaling apparatus	J. Weichmann	637,950	Nov. 28	3653	767	89	1748
Injector	R. G. Brooke	631,273	Aug. 22	2878	650, 651	88	1340
Injector	F. Brunbauer	624,430	May 2	884	200	87	871
Injector	J. Desmond	636,499	Nov. 7	461	103	89	1014
Injector	L. Friedmann	625,329	May 23	2522	573	87	1252
Injector	A. Fuller	628,456	July 11	947	220	88	202
Injector	P. P. Hogue and R. C. Jack	619,961	Feb. 21	2143	486	86	1270
Injector	S. L. Kneass	625,267	May 16	2393	543	87	1201
Injector	J. Trix	632,481	Sept. 5	492	112, 113	88	1804
Injector	E. J. Young	628,684	July 11	1401	326	88	291
Injector. Composite	W. R. Park and B. T. Williston	621,367	Mar. 21	1546	343	86	1826
Injector. Ointment-	R. K. Smither	627,658	June 27	2707	593	87	2198
Injector. Steam-	J. Desmond	626,150	May 30	4096	934	87	1569
Injector. Steam-boiler	L. E. Hogue	629,562	July 25	2996	700	88	639
Ink	F. B. Canode	617,315	Jan. 10	864	------	86	188
Inkstand	H. B. Brownell	626,218	June 6	10	3	87	1616
Inkstand	H. B. Campbell	633,502	Sept. 19	2442	575	88	2212
Inkstand	J. L. Otero	626,925	June 13	1336	294	87	1890
Inkstand	H. I. Snyder	638,770	Dec. 12	1100	246	89	2102
Inkstand attachment	A. B. Flagg	635,309	Oct. 24	2460	572	89	534
Inkstand-shield	R. G. Hopkins	630,055	Aug. 1	624	136	88	847
Ink-transfer rolls. Mechanism for controlling	R. Miehle	636,344	Nov. 7	191	42	89	959
Ink-well	S. H. Nixon	628,672	July 11	1382	323	88	287
Ink-well	C. F. Ritchel	632,588	Sept. 5	689	159	88	1842
Ink-well	O. K. Trego	636,733	Nov. 7	956	205	89	1126
Ink-well and device for opening or closing same	W. R. Hall	624,016	May 2	114	24	87	725
Ink-well case	W. H. Barten	634,795	Oct. 10	1507	354	89	316
Ink-well cover	B. G. Merrill	628,107	July 4	290	68	88	57
Ink-well stand	E. Oldenbusch	629,088	July 18	2137	497	88	455
Inking apparatus	T. M. North	638,747	Dec. 12	1062	238	89	2093
Inking apparatus	T. M. North	638,748	Dec. 12	1065	238, 239	89	2094
Inking apparatus	W. Spalckhaver	636,863	Nov. 14	1207	261	89	1193
Inking apparatus. Automatic lifting mechanism for	T. M. North	629,915	Aug. 1	325	73	88	785
Inking-pad and pad-cover holder	H. Baumgarten	621,206	Mar. 14	1246	275	86	1756
Inlaid work. Manufacturing	A. Dunsky	637,376	Nov. 21	2235	481	89	1408
Inner sole	J. V. Allen	621,198	Mar. 14	1232	271	86	1753
Inner sole	J. S. Damrell	628,699	July 11	1432	332	88	298
Inner-sole machine	P. A. Coupal and W. Gordon	623,306	Apr. 18	2056	472	87	430
Insole	S. A. Forbush	621,238	Mar. 14	1309	290	86	1769
Insole	J. Jaque	623,549	Apr. 25	2496	573	87	536
Insole	W. Lawes	635,559	Oct. 24	2961	677	89	632
Insole. Anatomical	B. Nathan	622,253	Apr. 4	92	21	87	21
Insole creasing and flanging mold	G. W. Sleeper	632,760	Sept. 12	1051	244	88	1930
Insole. Pneumatic	A. Korwan	632,529	Sept. 5	591	135	88	1825
Insole. Slipper-	A. Lennon	628,339	July 4	739	171	88	142
Insole slitting and channeling and lip-turning machine.	A. E. Johnson	638,394	Dec. 5	397	83, 84	89	1942
Inseam-trimming machine	G. Julian	623,313	Apr. 18	2067	474	87	432
Insect-destroyer	J. Galloway	636,973	Nov. 14	1426	305	89	1235
Insect-destroyer	A. C. Richardson	620,362	Feb. 28	2858	654	86	1421
Insect-excluder for window-sashes	T. E. Barr	618,825	Feb. 7	14	3	86	806
Insect-exterminating apparatus	T. Johnson	623,374	Apr. 18	2178	500	87	454
Insect-exterminator	J. K. Worrell	618,450	Jan. 31	3050	675	86	656
Insect-killing device	A. G. Jacobs	629,998	Aug. 1	511	112	88	824
Insect-powder distributer	J. H. Pottenger	627,138	June 20	1706	374	87	1983
Insect-powder duster	A. and T. R. Hopper	637,118	Nov. 14	1725	371	89	1291
Insect-powder gun	W. W. Newberry	626,765	June 13	1001	225	87	1826
Insect ring-shield for trees	A. Henderson	619,409	Feb. 14	1137	257	86	1051
Insect-screen	A. C. Gulick	628,936	July 18	1859	431	88	398
Insect-trap	E. H. Barnhart	621,016	Mar. 14	909	197	86	1690
Insect-trap	J. R. Blankenship	632,632	Sept. 5	757	174	88	1856

Alphabetical list of inventions—Continued.

Invention.	Name.	No.	Date.	Monthly volume. Spec.	Monthly volume. Dr'g.	Official Gazette. Vol.	Official Gazette. Page.
Insect-trap	H. L. Heymann	625,677	May 23	3107	707	87	1366
Insecticide	E. I. Braddock	624,617	May 9	1234	------	87	962
Insecticide	W. L. Eaton	626,890	June 13	1283	------	87	1880
Insecticide	E. F. Eichholtz	626,153	May 30	4101	------	87	1571
Insecticide	W. J. Ford	633,509	Sept. 19	2454	------	88	2215
Insecticide	A. Marxsen	633,766	Sept. 26	2950	------	88	2326
Insecticide	C. M. Porter	619,612	Feb. 14	1478	------	86	1116
Insecticide and making same	C. E. Hore	617,020	Jan. 3	301	------	86	60
Insecticides. Process of and apparatus for applying	J. B. Steele	627,214	June 20	1833	401	87	2008
Insufflator	E. T. Johnson	634,982	Oct. 17	1847	438	89	400
Insulated conductor	J. N. Keller	629,508	July 25	2915	678	88	623
Insulated handle for electrical apparatus	J. J. Walsh	635,006	Oct. 17	1883	447	89	408
Insulated joint for electric fixtures	E. E. Clift	626,143	May 30	4079	931	87	1566
Insulated pipe-coupling	G. Peeples	635,869	Oct. 31	3557	819	89	761
Insulated-rail support	C. K. King and G. A. Mead	628,667	July 11	1375	321	88	285
Insulating alternating-current circuits	C. P. Steinmetz	619,360	Feb. 14	1049	------	86	1034
Insulating apparatus	G. G. Lewis	632,654	Sept. 5	814	189	88	1869
Insulating apparatus	G. G. Lewis	632,655	Sept. 5	816	189	88	1870
Insulating apparatus	G. G. Lewis	632,656	Sept. 5	818	190	88	1870
Insulating-arm	J. D. Taliaferro	617,062	Jan. 3	395	96	86	77
Insulating-caster	H. S. Lee	619,896	Feb. 21	2037	462	86	1250
Insulating compound	B. Ford	621,807	Mar. 28	2362	------	86	1999
Insulating-joint	C. Wagner	636,475	Nov. 7	419	93	89	1006
Insulating material	J. De Long	622,450	Apr. 4	447	------	87	83
Insulating material to wire. Machine for applying paper or similar	L. C. Arnold	621,735	Mar. 21	2211	498, 499, 500	86	1955
Insulating properties. Apparatus for manufacturing material having	F. Lamplough	625,172	May 16	2223	503, 504	87	1169
Insulating properties. Manufacturing a substance having	F. Lamplough	618,692	Jan. 31	3485	779	86	740
Insulating-receptacle for electrical switches	J. S. Gibbs	632,346	Sept. 5	248	59	88	1756
Insulating-support for electric wires	C. N. Beal	634,568	Oct. 10	1119	266	89	241
Insulation for leading-in wires of signal-boxes	G. W. Butler	632,695	Sept. 12	932	216	88	1905
Insulation of electric wires	J. A. Poché. (Reissue)	11,759	July 11	1814	422	88	373
Insulation upon conductors. Forming magnesia	W. S. Hadaway, Jr	620,307	Feb. 28	2762	632	86	1403
Insulator	J. A. Carpenter and C. F. Tonn	626,592	June 6	669	155	87	1744
Insulator	M. Harloe and W. S. Bloes	621,661	Mar. 21	2074	463	86	1629
Insulator	W. E. Holmes	626,065	May 30	3901	886	87	1534
Insulator	F. H. Withycombe	633,173	Sept. 19	1838	432	88	2095
Insulator	F. H. Withycombe	633,174	Sept. 19	1839	432	88	2096
Insulator	F. H. Withycombe	633,175	Sept. 19	1840	433	88	2096
Insulator	F. H. Withycombe	633,176	Sept. 19	1841	433	88	2096
Insulator. Bedstead	W. Sellers	632,851	Sept. 12	1222	279	88	1965
Insulator. Electric	J. A. Poché	637,282	Nov. 21	2038	437, 438	89	1367
Insulator for trolley-wire supports	J. W. Meaker	632,733	Sept. 12	1002	233	88	1919
Insulator for fastening electric wires	J. Treleaven	627,366	June 20	2147	472	87	2072
Insulator. Rail-	C. B. Martin	619,974	Feb. 21	2164	492	86	1274
Insulator. Section-	E. J. Cook	621,631	Mar. 21	2008	448	86	1915
Insulator. Telegraph-	I. B. Frantz	619,555	Feb. 14	1378	317	86	1098
Insulator tie-wire or clasp	F. W. Wentworth	619,915	Feb. 21	2066	468	86	1255
Insulators for carrying electric-line wires. Fixing of	W. Menzel	628,343	July 4	748	172	88	144
Interest-indicator	C. C. Adams	622,098	Mar. 28	2892	652, 653	86	2103
Internal-combustion engine	H. C. L. Holden	622,047	Mar. 28	2808	633, 634	86	2086
Internal-combustion motor for bicycles, &c	S. N. Pond	633,484	Sept. 19	2413	568, 569	88	2208
Intrenching-tool	A. G. Hoffmann	630,829	Aug. 8	2064	465	88	1140
Intrenching-tool	L. H. Wightman	623,752	Apr. 25	2828	648	87	599
Intrenching-tool and head-protector	J. D. Rhodes	622,394	Apr. 4	329	76	87	62
Invalid-cup	D. N. Akard	632,687	Sept. 12	917	214	88	1903
Invalid raising or lowering apparatus	F. Spicer and W. Snyder	633,051	Sept. 12	1570	366	88	2031
Invalid-support	G. L. Walden	627,663	June 27	2717	595	87	2200
Iodin compound and making same	A. Classen	627,981	July 4	40	------	88	10
Iodin derivatives of aromatic amins and making same.	A. Classen	627,982	July 4	44	------	88	11
Iodin derivatives of phenols and bismuth salts thereof.	A. Classen	618,168	Jan. 24	2528	------	86	543
Ionon. Making	I. Klimont	637,209	Nov. 14	1907	------	89	1326
Iris mechanism	E. M. Berger	622,592	Apr. 4	738	170	87	140
Iron: *See* Branding-iron. Curling-iron. Flat-iron. Hat-smoothing iron. Leuring-iron. Puffing-iron. Sad-iron. Shaft-iron. Smoothing or pressing box-iron. Tailor's iron. Twyer-iron.							
Iron and nuclein and making same. Compound of	K. Schwickerath	637,354	Nov. 21	2194	------	89	1399
Iron and steel. Manufacture of planished	W. C. Dickey	630,867	Aug. 15	2130	------	88	1176
Iron and steel. Manufacture of planished	W. C. Dickey	639,537	Dec. 19	2483	------	89	2388
Iron compound and making same. Chrome-	A. G. McKenna	637,013	Nov. 14	1516	------	89	1253
Iron constructions. Lock-joint for	D. Fries	637,506	Nov. 21	2462	534	89	1451
Iron or steel. Producing phosphoric	S. P. Etter	639,368	Dec. 19	2190	------	89	2330
Iron oxids. Obtaining	A. S. Ramage	635,389	Oct. 24	2629	607	89	568
Iron. Puddling	R. A. Carter	623,654	Apr. 25	2678	------	87	569
Iron. Refining	G. F. Key	627,855	June 27	3050	667	87	2266
Iron. Treating molten	J. R. Billings	625,738	May 30	3229	734	87	1408
Ironing-board	A. Deschambault	634,399	Oct. 3	813	197	89	162
Ironing-board	W. Hargrove and J. J. Wylde	633,837	Sept. 26	3058	711	88	2349
Ironing-board	J. Hovsepian	626,493	June 6	508	118	87	1712
Ironing-board	E. G. Hummell	619,573	Feb. 14	1410	325	86	1104
Ironing-board	C. L. Leonard	617,752	Jan. 17	1692	380	86	369
Ironing-board	G. D. Lewis	625,175	May 16	2228	505	87	1170

Alphabetical list of inventions—Continued.

Invention.	Name.	No.	Date.	Monthly volume. Spec.	Monthly volume. Dr'g.	Official Gazette. Vol.	Official Gazette. Page.
Ironing-board	H. D. Sitts	636,573	Nov. 7	610	134	89	1046
Ironing-board	C. H. Smith	626,638	June 6	754	173	87	1760
Ironing-board	J. D. Smith	637,039	Nov. 14	1557	335	89	1261
Ironing-board	D. B. Wallace	634,741	Oct. 10	1422	335	89	300
Ironing-board and ladder. Combined	L. Nelson	639,603	Dec. 19	2602	598	89	2413
Ironing-board. Covered	M. E. Fox	631,364	Aug. 22	3041	689	88	1373
Ironing board. Shirt-bosom	H. Monk	623,102	Apr. 11	1672	387	87	339
Ironing-board support	C. M. Shaw	633,393	Sept. 19	2270	534	88	2179
Ironing device	G. A. McLane	626,391	June 6	338	78	87	1679
Ironing device	G. A. McLane	626,792	June 13	1055	237	87	1838
Ironing device for smoothing edges of laundered-shirt neckbands.	H. A. Drummond	629,066	July 18	2086	486	88	444
Ironing edges of and forming collars and cuffs. Machine for	O. W. Lorbeer	623,484	Apr. 18	2367	544, 545	87	493
Ironing-machine	O. E. Braconier	619,703	Feb. 14	1660	381	86	1151
Ironing-machine	C. E. Carpenter	625,966	May 30	3670	833	87	1492
Ironing-machine	E. C. Cress	624,755	May 9	1472	334	87	1010
Ironing-machine	C. W. Danglemyer	618,062	Jan. 24	2304	514	86	502
Ironing-machine	F. A. Walker and C. E. Rasmussen	626,948	June 13	1372	301, 302, 303	87	1898
Ironing machine. Collar-	G. H. and R. C. Hollis	619,959	Feb. 21	2141	485	86	1270
Ironing machine. Collar-edge-	E. F. Moore	627,129	June 20	1696	371, 372	87	1981
Ironing-machine for turning and ironing lay-down collars and cuffs.	E. W. Mosier	621,694	Mar. 21	2137	476	86	1942
Ironing machine. Shirt-	J. W. and H. Sutcliffe	634,376	Oct. 3	774	185	89	154
Ironing shirt-fronts, &c. Machine for	S. H. Sekian	619,698	Feb. 14	1653	379, 380	86	1150
Ironing-table	A. Josephs	628,332	July 4	729	168	88	140
Ironing-table	W. H. McRorie	618,715	Jan. 31	3525	787	86	748
Ironing-table	A. C. Millard	630,815	Aug. 8	2037	460	88	1134
Ironing-table. Combination	J. F. White	639,837	Dec. 26	3052	702	89	2520
Irrigating-flume. Movable	J. B. McDill	617,991	Jan. 17	2149	479	86	458
Irrigating system	W. R. Thornton	625,860	May 30	3471	787	87	1454
Irrigating system for sprinkling farm-lands, roads, or streets. Surface-	W. H. Shinn	628,127	July 4	316	75,76	88	63
Irrigation and drainage. Means for	E. A. Bagby	640,077	Dec. 26	3485	799	89	2608
Irrigator	W. A. Dunton	627,846	June 27	3037	663	87	2263
Iso-eugenol and derivatives thereof. Making	F. Ach	631,756	Aug. 22	3761	------	88	1513
Jack: *See* Boot or shoe jack. Buggy-jack. Double-action jack. Hydraulic jack. Lasting-jack. Lifting-jack. Railway-jack. Repair and assembling jack. Shoe-repairing jack. Shoemaker's jack. Shoemaker's repair-jack. Track-jack. Trip-jack. Wagon-jack.							
Jack	C. W. Doane	633,084	Sept. 12	1621	377	88	2042
Jack	G. L. Gallagher	626,605	June 6	690	159, 160	87	1748
Jack	L. O. Henggi	621,249	Mar. 14	1324	294	86	1771
Jack	W. T. Reed	637,945	Nov. 28	3645	765	89	1746
Jackknife	W. H. Wilkinson	633,931	Sept. 26	3217	750	88	2380
Jack-screw	J. Herzog	619,304	Feb. 14	963	218	86	1018
Jacket-stretcher	A. O. Wyman	624,601	May 9	1207	272	87	956
Jacquard-machine bottom board	G. W. Stafford	626,941	June 13	1360	299	87	1896
Jacquard-machine. Double-action	A. E. Kelmel	625,562	May 23	2919	663	87	1329
Jacquard-machine. Double-action	A. E. Kelmel	625,563	May 23	2920	663, 664	87	1329
Jacquard-machine. Double-action	G. W. Stafford and A. E. Kelmel	620,372	Feb. 28	2872	657, 658	86	1423
Jacquard-machine. Double-action	G. W. Stafford and A. E. Kelmel	621,544	Mar. 21	1866	414	86	1887
Jacquard-machine. Double-action	G. W. Stafford and A. E. Kelmel	625,208	May 16	2275	517, 518	87	1179
Jacquard-machine Double-action	G. W. Stafford and A. E. Kelmel	625,476	May 23	2762	629	87	1297
Jacquard-machine. Open-shed	G. W. Stafford and A. E. Kelmel	621,949	Mar. 28	2626	592	86	2049
Jacquard reading and punching apparatus	H. Hill	623,473	Apr. 18	2345	539, 540	87	490
Jail	R. C., Jr., and W. A. Stewart	624,565	May 9	1150	257, 258	87	945
Jar: *See* Exhibition-jar. Fruit-jar. Liquid-dispensing jar. Milk-jar. Preserve-jar. Preserving-jar. Syrup-jar.							
Jar	W. S. Bayless	634,742	Oct. 10	1422	336	89	300
Jar	J. H. Fowler	632,456	Sept. 5	453	101	88	1796
Jar closer or opener	L. Look	635,049	Oct. 17	1967	466	89	425
Jar-closing machine	A. L. Weissenthanner	620,624	Mar. 7	138	28	86	1529
Jar-closure	G. W. Burkhart	616,890	Jan. 3	49	9	86	12
Jar-closure	C. K. Cooper	620,889	Mar. 14	656	143	86	1644
Jar-closure	J. H. Fowler	619,950	Feb. 21	2124	481	86	1266
Jar closure. Fruit-	F. Fauser, Jr	619,288	Feb. 14	938	212	86	1012
Jar closure. Fruit-	E. Hayne	632,567	Sept. 5	660	153	88	1837
Jar closure. Fruit-	A. Smelker	622,400	Apr. 4	340	78	87	64
Jar-closure. Hermetic	A. L. Weissenthanner	620,623	Mar. 7	137	27	86	1528
Jar-closure means	F. McCarty	633,469	Sept. 19	2391	562	88	2203
Jar closure or sealing device	W. P. Martin	623,326	Apr. 18	2094	480	87	438
Jar cover. Fruit-	W. P. Sihler	635,874	Oct. 31	3565	820	89	762
Jar cover. Preserve-	A. Legrand	627,755	June 27	2876	629	87	2233
Jar cover or closure	W. S. Shaw	628,613	July 11	1230	287	88	258
Jar-fastener	R. H. Hansee	639,559	Dec. 19	2537	582	89	2400
Jar holder. Fruit-	T. F. Byron	619,275	Feb. 14	910	205	86	1006

Alphabetical list of inventions—Continued.

Invention.	Name.	No.	Date.	Monthly volume. Spec.	Monthly volume. Dr'g.	Official Gazette. Vol.	Official Gazette. Page.
Jar holder. Fruit-	J. H. Robeson	638,646	Dec. 5	862	188	89	2032
Jar holder. Preserving-	K. H. Ekstrand	627,489	June 27	2375	523	87	2132
Jar-opening device	C. H. Colkitt and J. W. Pentz	635,662	Oct. 24	3143	724	89	668
Jar or bottle handle attachment	C. E. Pierce	622,862	Apr. 11	1221	284	87	250
Jar or can opener	C. T. Brant	627,292	June 20	1982	436	87	2038
Jar or other receptacle	F. Hancock	632,410	Sept. 5	360	82	88	1777
Jars, bottles, &c. Closure for	M. Wanner	633,297	Sept. 19	2071	485	88	2141
Jars, bottles, &c. Closure for	A. L. Weissenthanner	637,981	Nov. 28	3712	781	89	1759
Jars, bottles, &c. Rapid closing and sealing device for	H. S. Garr	625,391	May 23	2618	595	87	1271
Jaws for jaw-rods or jaw-bolts. Manufacture of	G. G. Barret	635,288	Oct. 24	2422	565	89	528
Jetty work. Automatic chair-mat for cross-	W. H. Harrelson	620,584	Mar. 7	58	12	86	1514
Jewel-setting	A. Wandry	635,826	Oct. 31	3474	798	89	745
Jeweler's heating and lighting burner	I. Boorer	625,242	May 16	2341	534	87	1192
Joint: *See* Air-brake safety-joint. Ankle-joint. Ball-joint. Ball-and-socket joint. Bicycle-frame joint. Buggy-top joint. Cycle-frame brazeless joint. Display-stand joint. Electric-conductor joint. Flexible joint. Fracture-apparatus joint. Frame-joint. Glass-tubing joint. Hinge-joint. Insulated joint. Insulating-joint. Last-joint. Mechanical joint. Pipe-joint. Pivot or hinge joint. Rail-joint. Railway-joint. Railway-rail joint. Slip-joint. Swing and expansion joint. Telegraph-wire joint. Timber lock-joint. Tube-joint. Tubular joint. Umbrella notch-joint. Umbrella rib-joint. Universal joint.							
Joint	J. Macphail	631,046	Aug. 15	2468	559	88	1242
Joint for connecting rod-sections	H. Johnson	637,000	Nov. 14	1494	321	89	1249
Joint for hollow building-blocks, tubes, &c	J. Hickson and O. P. Bushnell	639,569	Dec. 19	2550	585	89	2402
Joint for parts of machinery	A. C. Culver	621,294	Mar. 14	1412	312	86	1788
Joint for parts of machinery	A. C. Culver	629,549	July 25	2975	695	88	635
Joint for structural building members	A. De Man	639,961	Dec. 26	3283	751	89	2567
Joist-hanger. Wrought-metal	R. C., Jr., and W. A. Stewart	625,427	May 23	2682	611	87	1283
Joint permitting of independent rotation of the two parts.	J. R. Davies	638,564	Dec. 5	706	150	89	2001
Joints. Apparatus for forming tubular	C. T. Crowden	633,430	Sept. 19	2329	549, 550	88	2191
Joints for tubular articles. Machine for making	J. N. Halifax	616,920	Jan. 3	102	23, 24	86	22
Joints. Method of and apparatus for forming tubular	C. V. Burton	638,554	Dec. 5	689	145, 146, 147	89	1998
Jointer	P. Soucy	637,358	Nov. 21	2198	473, 474	89	1400
Jointing-clamp	J. N. Roberts	617,123	Jan. 3	507	121	86	99
Journal-bearing	J. Appel	617,550	Jan. 10	1312	296	86	275
Journal-bearing	W. Corver	617,719	Jan. 17	1632	367	86	357
Journal-bearing	L. P. Delano	627,985	July 4	49	9	88	12
Journal-bearing	T. J. Tellefsen	624,995	May 16	1912	429	87	1112
Journal-bearing for centrifugal apparatus	O. Ohlsson	631,995	Aug. 29	4191	943	88	1607
Journal-bearing. Lubricating	B. J. Knapp	639,250	Dec. 19	1954	450	89	2282
Journal-bearings. Straining-pad for	W. P. Bending	629,762	Aug. 1	8	3	88	723
Journal-box	E. D. Bronner	635,123	Oct. 17	2127	498	89	455
Journal-box	E. B. Brown	629,949	Aug. 1	414	89	88	804
Journal-box	T. W. Green	627.456	June 20	2321	511	87	2105
Journal-box	J. W. Heaton	639,384	Dec. 19	2219	514	89	2337
Journal-box	B. S. Lawson	628.480	July 11	994	231	88	212
Journal-box	H. C. Swan	629,051	July 18	2059	479	88	439
Journal-box	T. B. Taylor	629,180	July 18	2299	533	88	484
Journal-box. Axle	M. L. Conway	623,501	Apr. 18	2395	550	87	499
Journal-box. Car-axle	J. D. Fullen	624,006	May 2	98	20	87	722
Journal-box. Car-axle	F. Thompson	638,077	Nov. 28	3887	818	89	1794
Journal-box. Lubricating	A. C. Smith	617.817	Jan. 17	1838	410	86	398
Journal-box lubricator. Automatic	J. G. Smith	634,860	Oct. 10	1634	382	89	340
Journal-box. Self-lubricating	T. H. Sly	636,461	Nov. 7	393	87	89	1000
Journal-box. Self-oiling	D. B. Hyde	622,231	Apr. 4	58	13	87	15
Journal-lubricator	E. B. Brown	628,921	July 18	1831	426	88	394
Journal-smoothing tool. Portable	J. J. Miller	625,585	May 23	2953	671	87	1336
Journals and bearings. Protecting device for	E. B. W. Reichel	623,628	Apr. 25	2632	601	87	561
Jug-carrier	F. O. Balch	626,130	May 30	4048	924	87	1560
Jug-packing box	J. L. Canale	629,235	July 18	2381	553	88	499
Jumping-rope	G. Beckh	623,698	Apr. 25	2755	631	87	585
Jumping-rope	F. B. Hinkson and W. I. Crawford.	633,590	Sept. 26	2640	616	88	2265
Junction-box	T. J. Murphy and B. F. Neilson	623,172	Apr. 18	1815	416	87	382
Junction-box cover	E. Kern and C. Claflin	629,373	July 25	2643	614	88	570
Jute-bast, &c. Treating	A. H. Prinz, H. Haber, E. Tomischka, and J. F. von Brenner.	621,135	Mar. 14	1135	------	86	1733
Kaleidoscope	D. A. A. Buck	630,652	Aug. 8	1769	398	88	1080
Kaleidoscope	G. Wale	631,550	Aug. 22	3394	768	88	1443
Keg-soaking apparatus. Automatic	C. Zies	620,820	Mar. 7	522	111	86	1604
Kerosene-burner. Atomizing	N. A. Ransom and J. Frueh	624,682	May 9	1339	299	87	982
Kettle-lifter	C. J. Berg	630,317	Aug. 8	1093	239	88	953
Kettle-tilting device	H. B. Rose	625.607	May 23	2988	680	87	1342
Key: *See* Watch-key.							
Key and keyway	F. T. Snyder	633,107	Sept. 12	1707	402	88	2057
Key and knob locking attachment for doors	W. H. Chadwick	633,336	Sept. 19	2161	506	88	2159
Keyboard-rail protector	L. Bernard	638,086	Nov. 28	3906	822	89	1798

Alphabetical list of inventions—Continued.

Invention.	Name.	No.	Date.	Monthly volume. Spec.	Monthly volume. Dr'g.	Official Gazette. Vol.	Official Gazette. Page.
Key-fastener	T. Craddock	619,035	Feb. 7	455	95	86	898
Key-fastener	P. R. Hazeltine and W. W. Dodd	640,133	Dec. 26	3583	824	89	2629
Key-fastener	C. W. Robnett	629,922	Aug. 1	343	76	88	789
Key-guard	L. L. Downing	628,438	July 4	909	212	88	175
Keyhole-guard	G. K. Peterson	627,238	June 20	1879	412	87	2018
Keyhole-guard	W. Reinhard	627,463	June 20	2329	513	87	2106
Keyhole-guard	C. L. Wright	620,397	Feb. 28	2911	667	86	1430
Key-opening can	B. W. Morfoot	621,758	Mar. 21	2266	511	86	1966
Key-operated machines. Actuating mechanism for	D. Murray	638,591	Dec. 5	756	162, 163, 164, 165, 166	89	2011
Key-ring	G. W. Sheets	629,213	July 18	2350	545	88	493
Key-seat-cutting machine	M. and H. E. Morton	618,894	Feb. 7	132	29	86	830
Key-socket	C. G. Perkins	628,990	July 18	1950	454	88	416
Kiln: *See* Bone-black kiln. Brick-kiln. Cement, lime, &c., kiln. Continuous kiln. Drying-kiln. Roasting-kiln.							
Kiln	W. Davis-Douglas	634,721	Oct. 10	1386	327	89	293
Kiln	E. Lanzone	627,343	June 20	2087	461	87	2060
Kiln	J. T. Windsor	633,407	Sept. 19	2295	539	88	2184
Kiln and drying tunnel. Combined	R. and A. Klose	622,238	Apr. 4	69	16	87	16
Kiln fire-mouth	W. M. Viall	634,223	Oct. 3	456	116	89	94
Kiln for burning earthenware, &c	R. C. Staley	629,825	Aug. 1	116	28	88	743
Kiln for burning fire-brick, &c	L. O. Boeing	635,647	Oct. 24	3118	717	89	663
Kiln for burning sewer-pipe	J. T. Finch	630,207	Aug. 1	882	190, 191	88	897
Kiln having superposed chambers for continuous working.	P. Schleich	635,513	Oct. 24	2883	657, 658	89	617
Kiln-heater	G. W. Soulé	617,260	Jan. 3	755	176, 177	86	149
Kiln or boiler furnace	W. C. Mitchell	640,144	Dec. 26	3602	828	89	2632
Kiln or furnace	J. O'Connell and B. F. Hillery	630,732	Aug. 8	1890	427	88	1103
Kiln pop-valve	L. Moore	635,572	Oct. 24	2986	685	89	636
Kinetoscope	W. B. Davis	617,643	Jan. 10	1486	339	86	309
Kinetoscope	E. F. Frost	627,930	June 27	3191	699	87	2296
Kinetoscopic apparatus	F. McMillan and A. C. Roebuck	628,413	July 4	862	203	88	165
Kinetoscopic apparatus	A. C. Roebuck and F. McMillan	632,472	Sept. 5	476	108	88	1801
Kinetoscopic apparatus. Film-actuating mechanism for	J. A. Prestwich	627,526	June 27	2445	538	87	2146
Kinetoscopic apparatus. Mechanism for propelling and exposing films in	J. A. Prestwich	620,357	Feb. 28	2847	651	86	1418
King-bolt. Wagon	V. E. Robbins	620,672	Mar. 7	242	50	86	1549
Kitchen utensil	B. F. Earl	627,806	June 27	2966	649	87	2249
Kitchen utensil	W. Mitchel	637,721	Nov. 21	2489	539, 540	89	1457
Kitchen utensil	A. Reeves and A. W. Johnson	631,818	Aug. 29	3884	867	88	1548
Kite	W. S. Baker	621,593	Mar. 21	1944	435	86	1902
Knapsack	J. J. Mahoney	621,265	Mar. 14	1353	300	86	1777
Kneading apparatus. Dough-	C. Somasco	617,866	Jan. 17	1930	432, 433	86	416
Kneading-board and dough-raiser. Combined	A. W. Williams	621,395	Mar. 21	1585	351	86	1834
Kneading-machine	J. and F. Cavagnaro	620,736	Mar. 7	371	76	86	1574
Kneading-machine	C. Fleck	635,310	Oct. 24	2461	572	89	534
Kneading-machine	J. P. Schmitz	639,098	Dec. 12	1672	386	89	2212
Knee-pad	T. E. Burt	619,665	Feb. 14	1581	361	86	1136
Knife: *See* Cane-knife. Chopping-knife. Corn-knife. Excelsior-knife. Farrier's knife. Hay-knife. Hunting-knife. Husking-knife. Jackknife. Machine-knife. Pocket-knife. Rotary knife.							
Knife	R. J. Christy	632,239	Sept. 5	20	5	88	1713
Knife	S. H. Jones	634,621	Oct. 10	1208	286	89	257
Knife	G. W. Miller	631,547	Aug. 22	3388	767	88	1442
Knife	H. V. Smith	621,543	Mar. 21	1866	413	86	1887
Knife	E. O. Wheeler	628,259	July 4	575	137	88	112
Knife-adjuster	M. M. Whipple, 2d	617,666	Jan. 10	1524	346	86	316
Knife and candlestick. Combined	A. Bernier	631,270	Aug. 22	2874	649	88	1340
Knife for cutting hay or cane	J. D. Swacick	632,287	Sept. 5	152	35	88	1737
Knife or fork cleaner	A. Rantala	637,974	Nov. 28	3694	777	89	1756
Knife-polishing machine	C. W. Model	628,016	July 4	108	22	88	22
Knife with connected blades	G. Bay	624,737	May 9	1435	323, 324	87	1002
Knit boot	R. Heaton	625,331	May 23	2524	------	87	1252
Knit fabric	J. Waterfield	627,945	June 27	3217	705	87	2302
Knitted fabric. Machine for producing striped	P. Hoffman	620,035	Feb. 21	2277	516	86	1295
Knitted fabric. Striped	H. Swinglehurst	618,017	Jan. 17	2199	491	86	467
Knitting-machine	J. Adams	625,234	May 16	2329	531	87	1190
Knitting-machine	H. A. Bettney	634,843	Oct. 10	1594	374	89	334
Knitting-machine	H. Clarke	638,096	Nov. 28	3945	829, 830	89	1804
Knitting-machine	J. A. Claringburn	618,537	Jan. 31	3207	710, 711	86	686
Knitting-machine	H. Donner	629,892	Aug. 1	266	59, 60	88	772
Knitting-machine	H. M. Foulds	621,239	Mar. 14	1310	290	86	1769
Knitting-machine	J. D. Hemphill	629,503	July 25	2895	674, 675, 676	88	619
Knitting-machine	W. R. Johns	621,681	Mar. 21	2118	471, 472	86	1938

Alphabetical list of inventions—Continued.

Invention.	Name.	No.	Date.	Monthly volume. Spec.	Monthly volume. Drg.	Official Gazette. Vol.	Official Gazette. Page.
Knitting-machine	W. H. Kehrer	633,595	Sept. 26	2647	618	88	2266
Knitting-machine	F. Lasher and C. S. Beach	632,872	Sept. 12	1253	286, 287, 288, 289, 290, 291, 292, 293	88	1971
Knitting-machine	S. Lowe	621,723	Mar. 21	2187	491, 492, 493	86	1952
Knitting-machine	W. S. Mills	624,065	May 2	208	45, 46	87	742
Knitting-machine	J. F. Nelson	617,039	Jan. 3	342	81, 82, 83, 84, 85, 86, 87	86	67
Knitting-machine	F. C. Rehm	619,840	Feb. 21	1934	440	86	1231
Knitting-machine	G. W. Ruth	622,542	Apr. 4	649	153	87	123
Knitting-machine	M. Saldin	636,187	Oct. 31	4187	961, 962	89	887
Knitting-machine	W. Spiers	617,820	Jan. 17	1846	412, 413	86	399
Knitting-machine	W. Spiers	621,478	Mar. 21	1744	388	86	1864
Knitting-machine	B. T. Steber	635,817	Oct. 31	3452	795	89	742
Knitting-machine	G. E. Stevens	630,784	Aug. 8	1976	447	88	1121
Knitting-machine	G. F. Sturgess	625,856	May 30	3466	786	87	1453
Knitting-machine	G. F. Sturgess	632,327	Sept. 5	219	51, 52	88	1750
Knitting-machine	D. F. Sullivan	629,880	Aug. 1	240	54	88	767
Knitting-machine	J. Waterfield	627,786	June 27	2924	639, 640	87	2241
Knitting-machine	A. Weimar	627,083	June 13	1604	350, 351	87	1943
Knitting machine. Circular-	A. J. Gulich	623,539	Apr. 25	2474	569, 570	87	533
Knitting machine. Circular-	F. Wilcomb	629,116	July 18	2186	507	88	464
Knitting-machine latch-opener attachment	W. J. Elliott and I. M. Miller	629,155	July 18	2256	522	88	476
Knitting-machine needle	G. F. Sturgess	636,584	Nov. 7	625	138	89	1049
Knitting-machine needle	J. Vernon	626,114	May 30	4017	916	87	1554
Knitting machine. Rib-	A. E. Vaughan	619,642	Feb. 14	1547	352, 353	86	1129
Knitting-machine stop mechanism	F. Crawford	619,142	Feb. 7	659	142	86	940
Knitting-machine stop-motion. Circular-	W. J. Ferris	637,929	Nov. 28	3621	759	89	1742
Knitting-machine striper attachment	D. F. Sullivan	634,510	Oct. 10	1012	242	89	220
Knitting-machine striping attachment	W. Coult	631,953	Aug. 29	4110	922, 923	88	1592
Knob	F. W. Chesson	627,802	June 27	2959	647	87	2248
Knob	A. J. Warner	619,522	Feb. 14	1332	306	86	1090
Knob and bell. Combination door	B. F. Flowers	627,956	June 27	3234	709	87	2305
Knob and bell. Combined door-	J. W. Freeman	620,297	Feb. 28	2739	627	86	1398
Knob attachment	H. W. Davis	629,123	July 18	2197	510	88	466
Knob attachment	C. J. Ericson	637,100	Nov. 14	1669	361	89	1281
Knob attachment	W. A. Gibbs	629,755	July 25	3348	781	88	706
Knob attachment	J. B. Sargent	638,940	Dec. 12	1393	318	89	2158
Knob attachment	O. Stoddard	632,661	Sept. 5	836	195	88	1874
Knob attachment	H. G. Voight	639,006	Dec. 12	1523	349	89	2183
Knob. Bell door-	B. F. Flowers	624,436	May 2	894	202	87	873
Knob. Door-	H. G. Voight	632,295	Sept. 5	166	38	88	1740
Knob. Door-	W. H. Wilkinson	632,301	Sept. 5	180	40	88	1743
Knob. Electrical	C. M. Brown	622,177	Mar. 28	3051	691, 692	86	2135
Knob for doors, bells, &c	C. M. Brown	622,665	Apr. 11	884	203	87	188
Knob-heading machine	H. K. Jones	628,666	July 11	1372	320, 321	88	285
Knob-lock	F. W. Steele	618,547	Jan. 31	3224	715, 716	86	689
Knobs. Machine for securing shanks to carriage-curtain	F. A. Neider	630,554	Aug. 8	1592	355, 356	88	1047
Knockdown or collapsible box	G. L. Johnstone and C. Lederer	619,757	Feb. 21	1763	404	86	1197
Knot-tying implement	J. P. Swift	634,152	Oct. 3	315	80	89	66
Knotter	W. Hindley and J. W. Harding	638,243	Dec. 5	70	17, 18	89	1880
Knuckle	W. Crutchlow	625,150	May 16	2183	496	87	1162
Label	J. B. Gould	627,920	June 27	3171	694	87	2293
Label-affixer	G. McCadden	623,330	Apr. 18	2102	482	87	439
Label-affixing machine	J. and D. D. A. Outcalt	635,108	Oct. 17	2092	492	89	449
Label-case. Druggist's	W. S. Mallard	631,874	Aug. 29	3979	890	88	1567
Label-clip	T. Boville	638,171	Nov. 28	4091	863	89	1832
Label-holder	F. H. Kelly	623,023	Apr. 11	1514	351	87	309
Label-holder	F. P. Mensch	616,951	Jan. 3	166	38	86	33
Label-holder	L. K. Stevenson	624,701	May 9	1377	308	87	990
Label-holder for bottles or packages	E. L. Brown	639,350	Dec. 19	2137	491, 492	89	2319
Label-holding book	S. Strauss and J. Harding	619,054	Feb. 7	491	103	86	906
Label-making machine	W. Holmes, G. Penny, and J. Hodgson, Jr.	623,213	Apr. 18	1884	431, 432, 433	87	395
Label. Medicine-	F. W. Bates	630,822	Aug. 8	2049	462	88	1137
Label pasting and dating machine	G. Limbach	622,814	Apr. 11	1131	262	87	234
Labels. Apparatus for supplying paste to	G. Doherty	635,922	Oct. 31	3664	846	89	782
Labeling apparatus	C. G. Severin	620,981	Mar. 14	840	184	86	1676
Labeling bottles, &c. Machine for	S. Fyfe	628,307	July 4	676	158, 159	88	131

Alphabetical list of inventions—Continued.

Invention.	Name.	No.	Date.	Monthly volume. Spec.	Monthly volume. Dr'g.	Official Gazette. Vol.	Official Gazette. Page.
Laheling-machine	G. F. Gipner	630,342	Aug. 8	1155	253, 254, 255	88	966
Laheling-machine	J. T. Marlin	621,308	Mar. 14	1433	317, 318	86	1792
Labeling-machine	R. H. W. and C. F. Schmidt	631,386	Aug. 22	3082	697, 698	88	1381
Labeling-machine	C. F. Tehhetts	634,708	Oct. 10	1357	321	89	287
Laheling-machine	C. F. Tehbetts	639,627	Dec. 19	2648	608	89	2422
Laheling machine. Bottle-	V. Beauregard, F. Hausmann, and C. S. Gooding.	620,534	Feh. 28	3146	719, 720, 721	86	1476
Laheling machine. Bottle-	E. Ermold	632,519	Sept. 5	566	130, 131, 132	88	1819
Laheling machine. Bottle-	E. Ermold	636,967	Nov. 14	1413	303	89	1232
Laheling machine. Can-	W. D. Ayers	624,421	May 2	867	195	87	868
Labeling tins, jars, bottles, &c. Machine for	J. R. Bradley	628,389	July 4	820	191, 192	88	157
Lace-fastener	A. Hanson	625,165	May 16	2209	501	87	1166
Lace fastener. Shoe-	H. Larew	640,004	Dec. 26	3353	767	89	2580
Lace-fasteners. Automatic machine for feeding, inserting, and setting	J. S. Goldberg	626,687	June 13	854	194, 195	87	1799
Lace-fasteners. Automatic machine for feeding, inserting, and setting	E. D. Heinemann and J. S. Goldherg.	626,700	June 13	883	201, 202	87	1804
Lace-fasteners. Machine for inserting and setting	E. D. Heinemann	626,699	June 13	881	201	87	1804
Lace fastening. Shoe-	M. H. Lipman	626,174	May 30	4142	943	87	1579
Lace holder and winder	W. Kurth	622,695	Apr. 11	936	216	87	197
Lace holder. Shoe-	L. E. Grahendike	629,852	Aug. 1	180	42	88	756
Lace-machine hohhin	M. V. Palmer	631,472	Aug. 22	3239	735	88	1412
Lace-making machine	O. Prante and A. Schmidt	618,815	Jan. 31	3698	828	86	783
Lacing	P. J. Congdon	632,699	Sept. 12	938	216	88	1906
Lacing-cord fastener	W. H. Gates	636,516	Nov. 7	498	111	89	1022
Lacing device	S. Simmel	622,721	Apr. 11	973	226	87	204
Lacing-fastener	C. A. Cook	622,448	Apr. 4	445	104	87	83
Lacing-hook	P. F. King	635,859	Oct. 31	3537	812	89	757
Lacing-hook	G. A. Weld	624,138	May 2	354	73	87	767
Lacing-hook	H. O. Whyman	625,483	May 23	2773	631	87	1300
Lacing-hook guard	A. K. Lovell	630,984	Aug. 15	2352	536	88	1219
Lacing hook or stud	C. W. Adamson	621,734	Mar. 21	2209	498	86	1955
Lacing-hook-setting machine	G. W. Allen	628,738	July 11	1492	345, 346	88	311
Lacing-hook-setting machine	W. Halkyard	620,844	Mar. 7	575	124, 125	86	1615
Lacing. Rubher-tipped	E. Kempshall	639,998	Dec. 26	3347	766	89	2579
Lacing-stud-setting machine	P. R. Glass	631,038	Aug. 15	2452	556	88	1238
Ladder	T. N. Garder	622,847	Apr. 11	1202	279	87	247
Ladder	C. R. Harris	617,741	Jan. 17	1671	376	86	365
Ladder	J. Nichol and J. Willson	619,334	Feh. 14	1003	227	86	1026
Ladder and jack. Combined step-	D. Hughes	624,037	May 2	157	35	87	738
Ladder and jack. Combined step-	I. Wallach and C. W. Beerkircher	622,831	Apr. 11	1163	269	87	239
Ladder and truck. Extension-	O. E. Hegstad	626,277	June 6	105	27, 28, 29	87	1634
Ladder base attachment	F. S. Seagrave	625,066	May 16	2036	458	87	1135
Ladder. Collapsible	M. Barth	627,610	June 27	2626	577	87	2182
Ladder. Combination-	L. C. Hall	623,540	Apr. 25	2478	570	87	534
Ladder. Extension-	F. O. Carlson	637,082	Nov. 14	1636	354	89	1276
Ladder. Extension-	J. R. Jones	623,476	Apr. 18	2353	541	87	491
Ladder. Extension-	P. Pirsch	621,427	Mar. 21	1635	363	86	1843
Ladder. Extension fire-	J. Lavoie and J. F. Chazotte	635,440	Oct. 24	2759	631, 632	89	593
Ladder. Fireman's	E. P. Becker	627,893	June 27	3119	683	87	2278
Ladder for telephone-poles, &c. Adjustahle	G. F. Harper	631,302	Aug. 22	2930	664	88	1350
Ladder-hook	C. H. Grant	635,721	Oct. 24	3246	748	89	688
Ladder hook. Extension-	J. Bradley	631,925	Aug. 29	4064	912	88	1583
Ladder, ironing-hoard, and bench. Combined step-	D. G. Snyder	622,723	Apr. 11	975	227	87	205
Ladder. Link	N. H. Davis	634,444	Oct. 10	899	216	89	197
Ladder lock. Extension-	E. C. Bishop	626,264	June 6	77	19	87	1630
Ladder or telescoping water-tower. Fire-	J. F. Chazotte	629,493	July 25	2872	667	88	614
Ladder shelf attachment	F. K. Randall	639,611	Dec. 19	2615	601	89	2416
Ladder. Step-	C. S. Comins	621,468	Mar. 21	1722	382	86	1860
Ladder. Step-	M. Eichler	636,507	Nov. 7	484	108	89	1019
Ladder. Step-	J. P. Grace	628,624	July 11	1271	295	88	266
Ladder. Step-	J. D. Hall	639,380	Dec. 19	2215	512	89	2335
Ladder. Step-	C. H. Likewise	621,260	Mar. 14	1344	298, 299	86	1775
Ladder. Step-	W. P. Lyke	626,839	June 13	1159	257	87	1856
Ladder. Step-	J. G. Milhime	625,184	May 16	2242	510	87	1173
Ladder. Step-	G. T. Murray	636,444	Nov. 7	359	81	89	994
Ladder. Step-	J. Owen	629,589	July 25	3053	712	88	650
Ladder. Step-	C. E. Smith	621,432	Mar. 21	1643	365	86	1846
Ladder. Step-	W. V. and E. L. Stephenson	621,479	Mar. 21	1745	389	86	1864
Ladle. Foundry-	D. W. Nash	619,431	Feh. 14	1183	267	86	1059
Ladles, crucibles, &c. Lining for	R. A. Hadfield	620,310	Feh. 28	2768	------	86	1403
Laminated material. Subdividing	R. W. Heard and R. A. L. Snyder	621,410	Mar. 21	1608	356, 357	86	1838
Lamp	P. B. Curran	626,976	June 13	1420	313	87	1908
Lamp	M. Dreyfus	626,990	June 13	1449	318	87	1913
Lamp	E. and E. E. Gray	618,660	Jan. 31	3431	764	86	730
Lamp	C. L. Marshall	636,387	Nov. 7	272	61	89	976
Lamp	F. Rhind	631,820	Aug. 29	3885	867	88	1548
Lamp. Acetylene-	W. P. Barltrop	622,751	Apr. 11	1021	238	87	214
Lamp. Acetylene-	M. D Compton	633,683	Sept. 26	2807	653	88	2297
Lamp. Acetylene	E. J. Dolan	623,998	May 2	81	18	87	718

Alphabetical list of inventions—Continued.

Invention.	Name.	No.	Date.	Monthly volume. Spec.	Monthly volume. Dr'g.	Official Gazette. Vol.	Official Gazette. Page.
Lamp. Acetylene	J. G. A. Kitchen	620,149	Feb. 28	2483	564	86	1349
Lamp. Acetylene	F. Sunderland and G. Marshall	638,153	Nov. 28	4060	856, 857	89	1826
Lamp. Acetylene	F. L. White	635,366	Oct. 24	2566	597	89	556
Lamp. Acetylene bicycle	A. R. Wilson and W. Holt	622,306	Apr. 4	192	42, 43	87	36
Lamp. Acetylen-gas	G. W. Bayley	628,912	July 18	1818	423	88	391
Lamp. Acetylene-gas	E. J. Dolan	621,331	Mar. 21	1482	329	86	1814
Lamp. Acetylene-gas	P. Josserand	634,757	Oct. 10	1450	341	89	304
Lamp. Acetylene-gas	H. Millward	623,412	Apr. 18	2249	515	87	469
Lamp. Acetylene-gas	J. A. Mosher	633,655	Sept. 26	2750	640	88	2286
Lamp. Acetylene-gas	E. E. Peck	622,015	Mar. 28	2754	621	86	2076
Lamp. Acetylene-gas	H. Riemann	639,434	Dec. 19	2314	534	89	2353
Lamp. Acetylene-gas	G. G. Snyder and M. L. West	629,215	July 18	2353	546	88	493
Lamp. Acetylene-gas	M. Strakosch	628,964	July 18	1907	443	88	408
Lamp. Acetylene-gas	F. B. Waibel and H. Meytrott	625,943	May 30	3623	824	87	1483
Lamp. Acetylene-gas	E. L. Williams	618,595	Jan. 31	3309	736	86	706
Lamp. Acetylene-gas-generating	W. A. Barrows	617,710	Jan. 17	1615	363	86	353
Lamp. Acetylene-gas-generating	C. W. Beck	623,974	May 2	36	8	87	708
Lamp. Acetylene-gas-generating	T. Bell	631,554	Aug. 22	3401	769	88	1445
Lamp. Acetylene-gas-generating	J. Bilbie and H. Drivet	629,948	Aug. 1	413	89	88	803
Lamp. Acetylene-gas-generating	L. S. Buffington	621,217	Mar. 14	1269	281	86	1761
Lamp. Acetylene-gas-generating	E. J. Dolan	638,449	Dec. 5	503	102	89	1963
Lamp. Acetylene-gas-generating	H. Eldridge	638,221	Dec. 5	22	7	89	1871
Lamp. Acetylene-gas-generating	E. Evans	639,848	Dec. 26	3075	706	89	2524
Lamp. Acetylene-gas-generating	C. S. Forbes	617,730	Jan. 17	1652	372	86	361
Lamp. Acetylene-gas-generating	F. W. Hedgeland	624,022	May 2	125	28	87	276
Lamp. Acetylene-gas-generating	R. Holliday	632,117	Aug. 29	4431	996	88	1656
Lamp. Acetylene-gas-generating	C. Kelly	631,643	Aug. 22	3553	801	88	1475
Lamp. Acetylene-gas-generating	E. Moreau	624,068	May 2	224	47	87	744
Lamp. Acetylene-gas-generating	E. Moreau	625,346	May 23	2547	579	87	1256
Lamp. Acetylene-gas-generating	J. A. Mosher	633,656	Sept. 26	2753	640	88	2286
Lamp. Acetylene-gas-generating	E. A. Pauli	627,705	June 27	2786	610, 611	87	2212
Lamp. Acetylene-gas-generating	E. A. Pauli	633,609	Sept. 26	2674	623, 624	88	2271
Lamp. Acetylene-gas-generating	T. E. Scantlin	617,774	Jan. 17	1736	389, 390	86	376
Lamp. Acetylene-gas-generating	H. Stearns, S. Wilson, and E. B. Whinnerah.	629,309	July 18	2519	586	88	525
Lamp. Acetylene-gas-generating	E. F. Vogel	625,222	May 16	2302	524	87	1184
Lamp. Acetylene-gas-generating	W. A. Voncanon	632,887	Sept. 12	1304	299	88	1978
Lamp. Acetylene-gas-generating	S. P. Watt	638,898	Dec. 12	1320	300	89	2144
Lamp. Acetylene-gas-generator	W. O. Nelson	639,760	Dec. 26	2913	671, 672	89	2492
Lamp. Acetylene-gas-generator	E. L. Williams	618,594	Jan. 31	3307	735	86	706
Lamp. Acetylene-generating	E. J. Dolan	621,230	Mar. 14	1295	287	86	1766
Lamp. Acetylene-generating	H. Oehl	617,041	Jan. 3	361	87	86	69
Lamp. Alcohol or spirit	G. C. Otten and K. F. Henneman	623,555	Apr. 25	2503	575	87	538
Lamp. Alternating-current arc	G. L. Moyer	628,109	July 4	292	69	88	58
Lamp and fan. Combined electric-arc	J. Melzer	623,801	Apr. 25	2958	676	87	625
Lamp and socket. Signal	C. E. Scribner	638,423	Dec. 5	454	94	89	1953
Lamp. Arc	E. M. Cashion	629,424	July 25	2737	636	88	589
Lamp. Arc	J. A. Davies	631,849	Oct. 10	1605	376	89	336
Lamp. Arc	T. E. Drohan	623,279	Apr. 18	2006	460	87	420
Lamp. Arc	I. R. Prentiss	637,825	Nov. 28	3422	716	89	1701
Lamp attachment. Bicycle	W. Chapleau	627,682	June 27	2747	601	87	2205
Lamp base and socket. Incandescent	A. C. M. Prücker	623,623	Apr. 25	2626	599	87	560
Lamp. Bicycle	E. D. Middlekauff	626,627	June 6	721	167	87	1755
Lamp-bracket	W. C. Homan	623,606	Apr. 25	2598	594	87	556
Lamp-bracket	W. C. Homan	639,853	Dec. 26	3082	708	89	2525
Lamp-bracket	B. F. Kent	634,464	Oct. 10	934	223	89	204
Lamp-bracket for miners' caps	T. R. Jones	629,692	July 25	3231	752	88	684
Lamp-burner	M. Anthony	631,977	Aug. 29	4158	935	88	1601
Lamp-burner	W. S. Hamm	624,794	May 9	1545	352	87	1025
Lamp-burner	J. H. Kahrs	620,457	Feb. 28	3006	688	86	1448
Lamp-burner	J. H. Stone	638,293	Dec. 5	203	43	89	1905
Lamp-burner	F. T. Williams	628,424	July 4	886	208	88	169
Lamp-burner-cleaner attachment. Gas	F. W. Hedgeland	624,210	May 2	486	104	87	792
Lamp-burner for incandescent mantles	A. Albrecht	638,686	Dec. 12	959	213	89	2073
Lamp burner. Gasolene	A. S. Newby	640,016	Dec. 26	3366	770	89	2583
Lamp burner. Incandescent	O. M. Thowless	633,350	Sept. 19	2187	514	88	2164
Lamp burner. Incandescent-oil	T. J. Cranston	631,200	Aug. 15	2730	618	88	1294
Lamp burner. Oil	C. Throckmorton	623,443	Apr. 18	2297	526	87	480
Lamp. Car	E. A. Benson	636,889	Nov. 14	1261	271	89	1204
Lamp carbon-holder. Electric-arc	S. Bergmann	620,214	Feb. 28	2602	591	86	1370
Lamp. Carbureting	W. J. Keefe	639,057	Dec. 12	1591	365	89	2196
Lamp. Central-draft	J. C. Miller	639,594	Dec. 19	2589	594	89	2411
Lamp-chimney	F. Dunham	617,394	Jan. 10	1037	236	86	221
Lamp-chimney	P. Hoogerzeil	631,211	Aug. 15	2755	623	88	1299
Lamp-chimney and means for supporting same	A. S. Newby	636,688	Nov. 7	828	184	89	1090
Lamp chimney and shade. Glass	D. C. Ripley	618,806	Jan. 31	3685	825	86	781
Lamp-chimney attachment	R. W. Walmsley	638,302	Dec. 5	222	46	89	1909
Lamp-chimney-cleaner holder	W. Rayl	630,107	Aug. 1	718	155	88	866
Lamp-chimney heating attachment	H. L. Du Bois	634,809	Oct. 10	1530	360	89	320
Lamp-chimney holder	A. P. Lockett	618,513	Jan. 31	3169	700	86	679
Lamp-chimney holder	J. B. Paradis	633,150	Sept. 19	1792	422	88	2086
Lamp-chimney packing device	T. F. W. Schmidt	622,023	Mar. 28	2772	625	86	2079
Lamp-chimneys. Making	J. Pearce	625,985	May 30	3708	842	87	1500
Lamp-chimneys. Method of and apparatus for heating and flaring	W. Buttler	617,922	Jan. 17	2041	457	86	438
Lamp. Cupola tail	E. S. Piper	616,966	Jan. 3	189	44	86	37
Lamp. Electric	J. S. Mead	618,706	Jan. 31	3512	784	86	745
Lamp. Electric-arc	T. E. Adams	637,060	Nov. 14	1596	345, 346	89	1268
Lamp. Electric-arc	E. H. Belden	638,545	Dec. 5	676	142	89	1995

Alphabetical list of inventions—Continued.

Invention.	Name.	No.	Date.	Monthly volume.		Official Gazette.	
				Spec.	Drg.	Vol.	Page.
Lamp. Electric-arc	E. H. Belden	638,546	Dec. 5	679	143	89	1995
Lamp. Electric-arc	S. Bergmann	625,431	May 23	2692	613, 614	87	1284
Lamp. Electric-arc	S. Bergmann	625,432	May 23	2695	614	87	1285
Lamp. Electric-arc	S. Bergmann	635,740	Oct. 31	3307	763	89	713
Lamp. Electric-arc	F. Booker	629,979	Aug. 1	466	101	88	815
Lamp. Electric-arc	W. J. Cochran	638,703	Dec. 12	987	220	89	2078
Lamp. Electric-arc	W. J. Davy and G. Thomas-Davies	637,448	Nov. 21	2357	509	89	1432
Lamp. Electric-arc	W. J. Davy and G. Thomas-Davies	638,836	Dec. 12	1211	273	89	2122
Lamp. Electric-arc	W. E. Dennis	618,848	Feb. 7	51	11	86	814
Lamp. Electric-arc	T. E. Drohan	619,014	Feb. 7	418	87	86	891
Lamp. Electric-arc	C. Eschwei	620,759	Mar. 7	419	86	86	1583
Lamp. Electric-arc	T. M. Foote	632,707	Sept. 12	953	221	88	1910
Lamp. Electric-arc	F. G. Hall, Jr., and I. E. Burdick	629,291	July 18	2475	577	88	516
Lamp. Electric-arc	A. Hamacek	634,085	Oct. 3	176	45	89	39
Lamp. Electric-arc	C. E. Harthan	635,851	Oct. 31	3520	810	89	754
Lamp. Electric-arc	G. Heidel	638,512	Dec. 5	618	128	89	1984
Lamp. Electric-arc	D. Higham	635,345	Oct. 24	2940	672	89	629
Lamp. Electric-arc	E. Hungerbühler	621,417	Mar. 21	1616	359	86	1840
Lamp. Electric-arc	W. C. Johnson and A. Wunderlich	638,125	Nov. 28	4014	845	89	1818
Lamp. Electric-arc	E. S. Lea	635,862	Oct. 31	3543	815	89	758
Lamp. Electric-arc	P. Luhr	630,905	Aug. 15	2197	500, 501	88	1189
Lamp. Electric-arc	G. R. MacIntire	631,649	Aug. 22	3563	803	88	1477
Lamp. Electric-arc	F. Mackintosh	631,313	Aug. 22	2953	668	88	1355
Lamp. Electric-arc	P. Mersch	625,183	May 16	2240	509, 510	87	1173
Lamp. Electric-arc	J. E. Morris	630,513	Aug. 8	1514	338, 339	88	1031
Lamp. Electric-arc	A. Mougin	623,329	Apr. 18	2098	481, 482	87	439
Lamp. Electric-arc	G. L. Moyer	637,886	Nov. 28	3544	743	89	1727
Lamp. Electric-arc	M. S. Okun	620,665	Mar. 7	230	47, 48	86	1547
Lamp. Electric-arc	M. S. Okun	631,965	Aug. 29	4134	930, 931	88	1597
Lamp. Electric-arc	H. R. Ottesen	626,717	June 13	915	208	87	1810
Lamp. Electric-arc	J. R. Pepin	626,190	May 30	4176	950	87	1585
Lamp. Electric-arc	G. C. Pyle	631,816	Aug. 29	3881	866	88	1547
Lamp. Electric-arc	P. F. H. Queisser	629,603	July 25	3079	717	88	654
Lamp. Electric-arc	R. Schefbauer	621,855	Mar. 28	2447	545, 546	86	2016
Lamp. Electric-arc	R. Schefbauer	636,358	Nov. 7	220	49	89	965
Lamp. Electric-arc	A. Schweitzer	619,090	Feb. 7	553	117	86	918
Lamp. Electric-arc	P. H. F. Spies	639,786	Dec. 26	2965	682	89	2503
Lamp. Electric-arc	A. Stuttmann	630,470	Aug. 8	1441	322	88	1017
Lamp. Electric-arc	H. O. Swoboda	635,819	Oct. 31	3457	796	89	742
Lamp. Electric-arc	C. Tepel	624,703	May 9	1380	308, 309	87	990
Lamp. Electric-arc	C. Tepel	634,314	Oct. 3	653	159	89	132
Lamp. Electric-arc	C. J. Toerring	631,055	Aug. 15	2488	563	88	1246
Lamp. Electric-arc	J. T. Tschieret	620,996	Mar. 14	867	189	86	1682
Lamp. Electric-arc	E. P. Warner	621,876	Mar. 28	2484	555	86	2024
Lamp. Electric-arc	E. P. Warner	636,875	Nov. 14	1231	266	89	1197
Lamp. Electric-arc	E. P. Warner	638,430	Dec. 5	468	95, 96	89	1956
Lamp. Electric-arc	J. M. Willard	634,157	Oct. 3	322	81, 82, 83	89	67
Lamp. Electric-arc	E. Woltmann	638,614	Dec. 5	804	173, 174	89	2020
Lamp. Electric-arc	E. Woltmann	638,788	Dec. 12	1130	251, 252	89	2107
Lamp. Electric-arc	J. J. Wood	638,789	Dec. 12	1132	252	89	2107
Lamp. Electric-arc	F. S. Worsley	635,629	Oct. 24	3092	710	89	659
Lamp. Electric incandescent	F. M. F. Cazin	620,640	Mar. 7	171	37	86	1535
Lamp. Electric incandescent	F. M. F. Cazin	621,291	Mar. 14	1404	311	86	1786
Lamp. Electric headlight-	H. P. Wellman	629,631	July 25	3127	727, 728	88	664
Lamp. Electric headlight-	H. P. Wellman	630,475	Aug. 8	1448	323, 324	88	1019
Lamp. Electric incandescent	C. Howard	622,151	Mar. 28	2999	678	86	2125
Lamp. Electric incandescent	W. J. Phelps	635,058	Oct. 17	1982	468, 469	89	427
Lamp. Electric incandescent	W. J. Phelps	635,447	Oct. 24	2773	634	89	596
Lamp. Electric incandescent vacuum-	F. M. F. Cazin	621,292	Mar. 14	1407	312	86	1787
Lamp-extinguisher	M. Goetze	627,667	June 27	2723	597	87	2201
Lamp-extinguisher	F. Kössl	636,266	Nov. 7	72	17	89	937
Lamp filament and manufacturing same. Incandescent-	T. A. Edison	626,460	June 6	449	------	87	1701
Lamp filament. Incandescent electric-	C. H. Stearn	622,087	Mar. 28	2867	646	86	2098
Lamp filaments. Apparatus for manufacturing electric-	H. S. Maxim	618,703	Jan. 31	3501	782	86	743
Lamp filaments. Manufacturing electric-	H. S. Maxim	618,704	Jan. 31	3503	782	86	744
Lamp-fixture	L. Moss	619,598	Feb. 14	1445	333	86	1110
Lamp fixture. Incandescent-electric-	B. F. Rout	625,609	May 23	2990	681	87	1343
Lamp-flame extinguisher. Automatic	H. T. Jenkins	618,355	Jan. 24	2846	632	86	603
Lamp. Flash-	J. L. Cohen	636,492	Nov. 7	451	99, 100	89	1012
Lamp. Flash-	H. W. Hales	620,583	Mar. 7	56	11	86	1513
Lamp. Flash-light	G. R. Miller	635,567	Oct. 24	2980	683	89	635
Lamp for burning gaseous hydrocarbons	E. Tatham	622,984	Apr. 11	1435	331	87	294
Lamp for burning liquid hydrocarbons	E. Tatham	622,983	Apr. 11	1434	331	87	293
Lamp for electric lighting. Arc-	D. Gertin	620,117	Feb. 28	2430	549	86	1333
Lamp for incandescent lighting. Hydrocarbon-vapor	W. S. Proskey	626,930	June 13	1344	296	87	1892
Lamp for signaling purposes	H. G. G. Wilkins	637,912	Nov. 28	3589	752	89	1736
Lamp for street-cars. Route-indicating	J. A. Lakin	619,965	Feb. 21	2151	488	86	1271

Alphabetical list of inventions—Continued.

Invention.	Name.	No.	Date.	Monthly volume.		Official Gazette.	
				Spec.	Drg.	Vol.	Page
Lamp. Forced-draft	R. Hitchcock	620,130	Feb. 28	2449	554 555	86	1343
Lamp. Forced-draft	H. J. Norfolk	618,123	Jan. 24	2119	540	86	523
Lamp. Formaldehyde-	J. H. Holman	631,870	Aug. 29	3972	888 889	88	1566
Lamp. Gas-	M. P. Stevens	618,588	Jan. 31	3299	733	86	704
Lamp. Gas-	A. Winch	629,839	Aug. 1	157	37	88	751
Lamp. Gasolene-	J. W. Hile	618,940	Feb. 7	238	54	86	850
Lamp. Gasolene-	J. W. Hile	638,198	Nov. 28	4146	876	89	1845
Lamp. Gasolene-	W. A. Wood and J. M. Eddy	635,456	Oct. 21	2787	637	89	599
Lamp. Gasolene-	J. A. Yarton	623,736	Apr. 25	2835	650	87	600
Lamp-globe	J. G. Pennycuick and F. W. Barrett	639,687	Dec. 19	2774	640	89	2446
Lamp-globe holder	D. O. Sayre	621,947	Mar. 28	2622	591	86	2049
Lamp globe-holder. Electric-	G. W. Eddy	636,505	Nov. 7	472	105	89	1016
Lamp globe-holding device. Electric-arc-	T. E. Drohan	627,486	June 27	2372	522	87	2132
Lamp-guard	R. C. Gahlau	632,048	Aug. 29	4295	965	88	1628
Lamp-handling appliance. Tralnman's	R. H. Welden	634,419	Oct. 3	845	204	89	169
Lamp-hanger	L. L. Powell	617,351	Jan. 10	944	218	86	203
Lamp hanger. Adjustable incandescent-	W. N. Thorp and F. G. Normart	629,406	July 25	2708	630	88	584
Lamp hanger. Arc-	G. E. McCormac and S. J. Lapthorne	635,699	Oct. 24	3207	739	89	681
Lamp. Hanging	C. Maschmeyer	632,731	Sept. 12	1000	232	88	1919
Lamp holder or receptacle. Incandescent	G. A. Harter	636,336	Nov. 7	178	40	89	957
Lamp-holding device. Adjustable	M. M. Parvin	617,179	Jan. 3	607	142	86	119
Lamp hood. Bicycle-	E. A. Paull	627,704	June 27	2786	610	87	2210
Lamp. Hydrocarbon incandescent	F. C. Dellone	634,432	Oct. 3	872	211	89	175
Lamp. Hydrocarbon incandescent	W. S. Proskey	628,415	July 4	865	203	88	166
Lamp. Hydrocarbon incandescent	C. E. White	636,122	Nov. 7	331	74	89	988
Lamp. Hydrocarbon incandescent	D. S. Williams	637,952	Nov. 28	3658	768	89	1749
Lamp. Hydrocarbon-vapor	A. J. English	618,078	Jan. 24	2331	520	86	507
Lamp Igniter. Vapor-	A. Kltson	632,496	Sept. 5	521	119	88	1810
Lamp. Illumination-	P. A. Schneider	622,275	Apr. 4	135	31	87	29
Lamp. Incandescent	H. M. Cooley	630,862	Aug. 15	2121	481	88	1174
Lamp. Incandescent	E. F. Dwyer	621,463	May 9	954	212	87	907
Lamp. Incandescent	R. A. Fessenden	638,839	Dec. 12	1215	273	89	2123
Lamp. Incandescent	R. A. Fessenden	638,840	Dec. 12	1217	274	89	2123
Lamp. Incandescent	R. A. Fessenden	639,161	Dec. 19	1769	409	89	2231
Lamp. Incandescent	A. Graetz	619,165	Feb. 7	707	152	86	949
Lamp. Incandescent	E. C. de Marcay	631,221	Aug. 15	2765	626	88	1300
Lamp. Incandescent	A. H. Miller	629,198	July 18	2324	539	88	488
Lamp. Incandescent	A. Tillmes	624,265	May 2	588	125	87	811
Lamp. Incandescent	W. B. Rulon and J. S. Keen, Jr	622,929	Apr. 11	1346	309	87	275
Lamp. Incandescent electric	R. W. Carroll	626,017	May 30	3811	866	87	1519
Lamp. Incandescent gas-	L. Denayrouze	621,962	Mar. 28	2657	599	86	2055
Lamp. Incandescent gas-	A. Keysser	618,681	Jan. 31	3470	775	86	738
Lamp. Incandescent oil-	T. J. Cranston	632,616	Sept. 5	795	184	88	1865
Lamp. Incandescent petroleum-	A. Poeffel	619,136	Feb. 14	1191	269	86	1060
Lamp. Incandescent vapor-	R. L. Doran	626,752	June 13	973	220	87	1821
Lamp. Incandescent vapor-	P. J. Fitzgerald	629,068	July 18	2088	487	88	441
Lamplighter. Time-	J. Frossard	639,166	Dec. 12	1775	411 412	89	2233
Lamplighter. Time-	A. Johnson	638,018	Nov. 28	3799	799	89	1776
Lamp lighting apparatus. Car-	H. C. Farquharson	627,105	June 20	1656	361	87	1973
Lamplighting attachment	P. J. Fitzgerald	621,334	Mar. 21	1488	330	86	1816
Lamplighting attachment	N. H. Reynolds	633,190	Sept. 19	2425	570	88	2210
Lamp lighting attachment. Vapor-	J. A. Yarton	629,227	July 18	2368	550	88	496
Lamplighting device	F. A. Cortis	629,431	July 25	2748	639	88	591
Lamp mantle. Electric-arc-	P. Mersch	637,635	Nov. 21	3070	635	89	1611
Lamp. Miner's	W. A. Dunlap	628,053	July 11	1752	315	88	281
Lamp. Miner's	P. Home	623,370	Apr. 18	2174	499	87	453
Lamp. Miner's	H. J. Richards	622,076	Mar. 28	2852	643	86	2095
Lamp. Miner's	J. D. Williams	622,742	Apr. 11	1006	231	87	211
Lamp. Miner's safety-	W. Best	617,872	Jan. 17	1942	435	86	418
Lamp. Oil-	H. J. W. Raphael and J. West	621,712	Mar. 21	2164	482	86	1947
Lamp. Oil-gas	J. A. Yarton	625,630	May 23	3031	691	87	1352
Lamp or burner. Gas	A. T. M. Johnson	629,296	July 18	2484	579	88	518
Lamp or lantern. Street	V. O. Hammon	629,353	July 25	2609	606	88	561
Lamp pencil. Incandescent-	R. A. Fessenden	638,837	Dec. 12	1213	273	89	2123
Lamp pencil. Incandescent-	R. A. Fessenden	638,838	Dec. 12	1215	273	89	2123
Lamp. Petroleum incandescent	C. C. Bruckner	632,866	Sept. 12	1245	285	88	1970
Lamp. Petroleum incandescent	M. A. F. A., M. A. L. A., and E. E. Hantz.	627,822	June 27	2093	654	87	2254
Lamp. Petroleum incandescent	J. E. Hewes and D. S. Williams	631,012	Aug. 15	2397	545	88	1227
Lamp. Petroleum incandescent	F. W. O. Nicolai	631,223	Aug. 15	2768	627	88	1301
Lamp. Petroleum incandescent	F. W. O. Nicolai and F. H. Aschner	623,812	Apr. 25	2978	682	87	628
Lamp. Petroleum incandescent	D. S. Williams	634,125	Oct. 3	266	66	89	56
Lamp. Portable electric	A. and W. F. Doss	627,955	June 27	3233	709	87	2305
Lamp. Portable electric	A. Drescher	623,656	Apr. 25	2681	615	87	570
Lamp-raising device. Signal-	T. J. Walsh	629,222	July 18	2362	548	88	495
Lamp. Reflecting acetylene-	F. Rings	627,656	June 27	2703	593	87	2198
Lamp safety appliance	W. J. Downey	632,518	Sept. 5	565	130	88	1819
Lamp-shade	W. H. Wells	631,059	Aug. 15	2495	565	88	1247
Lamp-shelf bracket	C. Mee, Sr	633,874	Sept. 26	3129	726	88	2363
Lamp-socket for street-service	W. E. Holmes	617,464	Jan. 10	1157	261	86	244
Lamp socket. Incandescent-	A. A. Chaillet	625,321	May 23	2499	568	87	1247
Lamp socket. Incandescent-	C. G. Perkins	626,927	June 13	1339	295	87	1891
Lamp spring-carrier	J. Kirschbaum	621,823	Mar. 28	2390	534	86	2005
Lamp. Street-	D. J. Prendergast	618,804	Jan. 31	3681	824	86	780
Lamp. Street-	D. J. Prendergast	627,239	June 20	1880	412	87	2018
Lamp. Street-	D. S. Rice	635,187	Oct. 17	2234	520 521	89	476
Lamp. Street-	V. H. Slinack	618,140	Jan. 24	2459	548	86	531
Lamp. Street-	H. F. Smith	632,761	Sept. 12	1053	244 245	88	1930
Lamp-support	F. L. White and W. F. Goeltz	625,944	May 30	3621	824	87	1483
Lamp. Surgical	D. D. Smith	624,392	May 2	816	183 184	87	857

Alphabetical list of inventions—Continued.

Invention.	Name.	No.	Date.	Monthly volume.		Official Gazette.	
				Spec.	Drg.	Vol.	Page.
Lamp. Unchangeable incandescent	A. Schirner	625,903	May 30	3558	807	87	1470
Lamp. Vacuum arc	J. H. Loos	636,270	Nov. 7	78	18	89	938
Lamp. Vapor	W. Somerville and A. Pullis	639,783	Dec. 26	2957	681	89	2501
Lamp. Vapor	G. Wolke and H. D. Easterly	636,935	Nov. 14	1366	291	89	1222
Lamp. Vapor-burning	L. C. Hills	620,454	Feb. 28	3001	686 687	86	1447
Lamp. Vehicle	J. W. Eisenhuth	620,110	Feb. 28	2415	546	86	1335
Lamps. Apparatus for electrically igniting miners' safety	W. Best	625,014	May 16	1941	436	87	1117
Lamps. Apparatus for electrically lighting	H. C. Farquharson	627,106	June 20	1658	362	87	1973
Lamps. Apparatus for exhausting electric	W. F. Smith	630,997	Aug. 15	2370	540	88	1229
Lamps by electricity. Device for lighting	H. M. Brigham and S. M. Meyer	633,565	Sept. 26	2577	604	88	2255
Lamps by electricity. Device for lighting	S. M. Meyer	631,316	Aug. 22	2959	669	88	1357
Lamps by electricity. Device for lighting	S. M. Meyer	633,246	Sept. 19	1980	464	88	2124
Lamps Carbon-holder for electric-arc	F. S. Worsley	638,159	Nov. 28	4069	858	89	1827
Lamps. Clutch for electric arc	H. C. Spinney	631,339	Aug. 22	2997	680	88	1364
Lamps. Device for facilitating lighting of cycle or other	W. H. Jackson	631,891	Aug. 29	4004	896	88	1572
Lamps. Device for igniting bicycle, carriage, or other	M. Tucker	624,267	May 2	593	127 128	87	811
Lamps. Drip-trough for central-draft	J. C. Miller	625,782	May 30	3318	753	87	1425
Lamps. Keyless switch-socket for incandescent	M. Meyherg	622,188	Mar. 28	3068	695	86	2138
Lamps. Locking hanger for electric	J. A. Brennan	630,852	Aug. 15	2103	477	88	1170
Lamps Manufacture of incandescent	A. Wierre	629,973	July 18	1917	446	88	410
Lamps. Means for operating electric-arc	H. A. Wagner and D. W. Roper	631,975	Aug. 29	4151	934	88	1600
Lamps Means for placing, removing, and cleaning electric	E. E. Simms	636,229	Oct. 31	4271	981	89	903
Lamps, &c. Means for supporting and bracing yard arms for arc	J. R. Fletcher	636,327	Nov. 7	168	37	89	955
Lamps Mica chimney for gas	A. P. Storrs	624,568	May 9	1155	259	87	946
Lamps. Protective device for incandescent electric	R. Kaes	619,829	Feb. 21	1904	434 435	86	1225
Lamps. Supply of current to and governing arc	F. M. Lewis	621,352	Mar. 21	1521	338	86	1822
Lamps. Time cut-out for electric	J. H. Boardman	624,615	May 9	1231	276	87	961
Lamps. Vaporizer for hydrocarbon	J. Moscowitz	630,549	Aug. 8	1584	353	88	1045
Lamps Weatherproof socket for incandescent electric	W. C. Bryant	626,588	June 6	664	154	87	1743
Land-roller	J. S. Corbin	635,279	Oct. 17	2403	559 560	89	507
Land-roller	J. W. Newman	634,737	Oct. 10	1417	334	89	299
Land-roller	J. K. Wilder	625,485	May 23	2777	632	87	1301
Land-roller and harrow. Combined	J. C. Schaffer	639,829	Dec. 26	3037	699	89	2517
Land roller and mulcher. Combined	W. C. Freeman	627,182	June 20	1785	391 392	87	1999
Land roller and pulverizer	R. Newton	630,467	Aug. 8	1436	321	88	1017
Land-roller and seed-planter. Combined	R. Stuckwisch	626,011	May 30	3801	865	87	1517
Lantern	W. S. Hamm	636,137	Oct. 31	4100	938	89	869
Lantern	R. Hermance	621,668	Mar. 21	2087	466 467	86	1932
Lantern	J. H. Hill	628,804	July 11	1621	374	88	337
Lantern	R. Jackman	639,988	Dec. 26	3331	763	89	2576
Lantern	J. H. Stone	638,294	Dec. 5	204	43	89	1905
Lantern	J. H. Stone	638,653	Dec. 5	870	190	89	2034
Lantern. Bicycle	P. J. Creeden	626,001	May 30	3781	861	87	1514
Lantern-bracket	F. Rhind	621,374	Mar. 21	1556	345	86	1828
Lantern-bracket	F. Rhind	624,093	May 2	275	57	87	754
Lantern. Folding	J. W. Smith	623,436	Apr. 18	2283	523	87	477
Lantern-globe lift mechanism	W. C. Winfield	634,077	Oct. 3	159	41	89	36
Lantern-globe lift mechanism	W. C. Winfield	634,078	Oct. 3	160	41	89	36
Lantern globe-raising mechanism. Tubular	W. C. Winfield	634,076	Oct. 3	157	41	89	35
Lantern-holder	J. C. Calhoun	636,424	Nov. 7	334	75	89	989
Lantern-holder	G. A. Cornish	622,122	Mar. 28	2939	667	86	2111
Lantern-holder	T. C. Puckett	623,336	Apr. 18	2111	484	87	442
Lantern-holder and foot-warmer	W. M. Wilmarth	628,377	July 4	802	186	88	154
Lantern. Hunting	G. I. Rouse	618,735	Jan. 31	3557	794	86	754
Lantern. Hurricane	F. Heyard	624,933	May 16	1818	408	87	1093
Lantern lift mechanism. Tubular	W. C. Winfield	634,079	Oct. 3	161	42	89	36
Lantern. Signal	E. Armstrong	625,286	May 16	2428	549	87	1207
Lantern. Signal	T. M. Crepar	633,079	Sept. 12	1614	376	88	2040
Lantern. Signal	W. S. Hamm	618,344	Jan. 24	2824	627	86	599
Lantern. Signal	W. H. I. Welch	631,686	Aug. 22	3626	817	88	1490
Lantern. Tubular	C. T. Ham	628,461	July 11	954	223	88	203
Lap-board	R. J. Doty	623,143	Apr. 18	1759	405	87	371
Lap-robe	H. C. Hansen	633,134	Sept. 19	1759	414 415	88	2079
Lap robe	C. T. Kaffenberger	639,176	Dec. 12	1795	416	89	2237
Lap-robe holder	F. M. Cadman and J. W. Johnson	633,681	Sept. 26	2803	652	88	2296
Lard-press, &c	J. A. Smith	618,744	Jan. 31	3577	798	86	759
Last	W. B. Arnold	628,238	July 4	517	125	88	103
Last	W. B. Arnold	640,076	Dec. 26	3483	799	89	2607
Last	J. M. Barnett	620,827	Mar. 7	533	114	86	1606
Last	E. A. Burns	622,941	Apr. 11	1365	313	87	278
Last	E. L. Goding	623,711	Apr. 25	2773	634	87	588
Last	J. and A. T. Harper	639,034	Dec. 12	1557	357	89	2190
Last	J. Japiot	639,990	Dec. 26	3333	763	89	2576
Last	J. F. McLaughlin	636,055	Oct. 31	3913	898	89	832
Last	M. Mitchell	638,736	Dec. 12	1047	235	89	2090
Last	W. R. Scull	618,296	Jan. 24	2746	609	86	584
Last	F. W Stuart	631,236	Aug. 15	2788	632	88	1305
Last	W. E. Trufant	633,741	Sept. 26	2907	675	88	2318
Last block fastener	J. E. Scott	625,705	May 23	3157	717	87	1376
Last-block fastener	J. E. Scott	637,292	Nov. 21	2064	442	89	1372
Last for boots or shoes. Adjustable	G. C. Bemis	635,033	Oct. 17	1929	458	89	416
Last for making overshoes	G. S. and H. D. Bronson	639,349	Dec. 19	2136	491	89	2319
Last. Hinged	N. W. Arnold	629,184	July 18	2303	534	88	485
Last. Hinged	E. S. Morton	636,348	Nov. 7	203	44	89	962

Alphabetical list of inventions—Continued.

Invention.	Name.	No.	Date.	Monthly volume.		Official Gazette.	
				Spec.	Dr'g.	Vol.	Page.
Last-hinging machine	E. A. Eastman	639,542	Dec. 19	2499	576, 577	89	2391
Last-joint	A. G. Fitz	632,994	Sept. 12	1473	343	88	2012
Last or follower	A. H. Brigham	639,886	Dec. 26	3126	719	89	2534
Last-toe-tip shell	G. C. Bemis	620,835	Mar. 7	551	117	86	1610
Lasts. Lock for hinged shoe-	F. O. Thompson	638,297	Dec. 5	210	44	89	1906
Lasting device	K. W. Berglund	631,609	Aug. 22	3501	789	88	1465
Lasting-jack	H. H. Donovan	636,644	Nov. 7	749	163	89	1073
Lasting-machine	W. H. Dorman	629,553	July 25	2979	696, 697	88	636
Lasting-machine	A. W. Eaton	635,129	Oct. 17	2140	501	89	458
Lasting-machine	R. J. Gardiner	622,846	Apr. 11	1199	279	87	247
Lasting-machine	T. Gare	632,458	Sept. 5	455	102	88	1797
Lasting-machine	J. Keats and W. S. Clark	628,200	July 4	451	106, 107, 108, 109	88	90
Lasting-machine	A. E. Stirckler	623,848	Apr. 25	3056	703, 704	87	643
Lasting machine. Boot or shoe	A. E. Stirckler	629,476	July 25	2838	658, 659, 660	88	609
Lasting shoes. Fastener for use in	E. S. Durkee	628,777	July 11	1566	361	88	326
Lasting-tool. Hand	I. Fréchette	626,755	June 13	979	221, 222	87	1822
Latch	W. B. Brooker	622,203	Apr. 4	10	2	87	4
Latch	W. B. Brooker	639,918	Dec. 26	3194	734	89	2548
Latch	C. Brown	639,515	Dec. 19	2445	565	89	2381
Latch	M. Duven	626,530	June 6	570	132	87	1724
Latch	L. G. Hayes	625,504	May 23	2816	642	87	1308
Latch	H. Hegel	618,091	Jan. 24	2362	527	86	513
Latch	W. E. Lott	629,166	July 18	2272	526	88	479
Latch	B. P. Merwin	618,708	Jan. 31	3514	784	86	746
Latch	A. W. Sprague	634,593	Oct. 10	1158	275, 276	89	248
Latch	T. B. Stevens	624,121	May 2	328	67	87	763
Latch and lock	A. J. Stoops	620,377	Feb. 28	2881	659	86	1425
Latch and lock. Combined	J. Stevenson	638,604	Dec. 5	786	170	89	2016
Latch and lock. Combined	F. W. Tobey	625,217	May 16	2294	522	87	1183
Latch and lock. Combined door	E. E. Nelson	634,365	Oct. 3	751	179	89	150
Latch. Cupboard-	H. G. Voight	634,565	Oct. 10	1116	265	89	240
Latch. Door-	H. W. Steege	627,213	June 20	1832	401	87	2008
Latch for boxes, &c	E. U. Kinsey	621,574	Mar. 21	1914	428	86	1896
Latch for sliding doors, &c	S. Glahn	629,959	Aug. 1	436	93, 94	88	809
Latch for sliding doors, &c	J. J. Munday	618,895	Feb. 7	134	30	86	831
Latch. Gate-	S. O. Campbell	619,668	Feb. 14	1588	362	86	1137
Latch. Gate-	O. E. Davidson	632,215	Aug. 29	4612	1039	88	1690
Latch. Gate-	C. E. Happy	627,750	June 27	2870	627	87	2232
Latch. Gate-	W. A. Jeffers	633,008	Sept. 12	1495	347	88	2017
Latch. Gate-	J. F. Martin	619,772	Feb. 21	1795	411	86	1205
Latch. Gate-	J. B. Miesse	627,587	June 27	2566	566	87	2169
Latch. Gate-	O. P. Perkins	625,057	May 16	2021	455	87	1132
Latch. Gate-	O. E. Potter	625,602	May 23	2981	677	87	1341
Latch. Gate-	W. I. Tripp	635,363	Oct. 24	2562	596	89	555
Latch lock. Automatic dead-	C. Backer	632,620	Sept. 5	738	169, 170	88	1853
Latch. Night-	H. G. Voight	625,073	May 16	2046	460	87	1137
Latch. Reversible	H. G. Voight	632,294	Sept. 5	165	38	88	1740
Latch safety device. Door-	K. Stelzenmüller	636,365	Nov. 7	234	52	89	968
Latch. Spring-	A. B. Dockery	636,502	Nov. 7	468	104	89	1015
Latch-stop	H. G. Voight	621,874	Mar. 28	2482	554	86	2024
Lath. Machine for making sheet-metal	G. A. Ohl, Jr	619,086	Feb. 7	544	114, 115	86	916
Lath machine. Sheathing-	A. A. Adair and J. H. D. Rosan	622,790	Apr. 11	1086	252	87	225
Lath or sheathing. Metal	G. A. Turnbull	628,565	July 11	1161	272	88	244
Lathing. Machine for making expanded metal	W. Duncan	639,157	Dec. 12	1763	407, 408	89	2230
Lathing to furring. Wire clip for fastening metal	L. F. Sylvester	638,821	Dec. 12	1187	266	89	2118
Lathe	W. Buckley	619,859	Feb. 21	1971	448	86	1238
Lathe	W. H. Fauber	636,248	Nov. 7	32	8, 9	89	931
Lathe	W. W. Hulse	621,322	Mar. 21	1469	325, 326	86	1812
Lathe	F. C. Huse	629,256	July 18	2421	561	88	506
Lathe attachment for cutting irregular forms	J. P. Brophy	616,887	Jan. 3	31	6	86	8
Lathe attachment for cutting rubber or other rings	C. H. Oakley	627,236	June 20	1877	411	87	2017
Lathe. Automatic	J. Brockie	627,385	June 20	2187	479, 480, 481	87	2079
Lathe. Automatic	J. Brockie	633,419	Sept. 19	2315	543, 544, 545, 546	88	2188
Lathe. Automatic	L. A. Carson	632,100	Aug. 29	4389	986	88	1646
Lathe. Automatic	J. B. Clyne	618,951	Feb. 7	280	60, 61	86	865
Lathe. Automatic spool-	E. A. and G. M. Herrick	620,128	Feb. 28	2447	553, 554	86	1342
Lathe center rest	R. Harris	618,666	Jan. 31	3441	767	86	732
Lathe. Duplex chucking-	J. A. Becher	638,312	Dec. 5	237	49	89	1912
Lathe. Engine-	J. C. Santon	629,874	Aug. 1	226	50, 51	88	764
Lathe. Engine-	S. C. Schauer	630,077	Aug. 1	670	144	88	856
Lathe feeding attachment. Turret-	S. L. Worsley	622,749	Apr. 11	1017	237	87	213
Lathe. Fluid-operated	J. Hartness	637,461	Nov. 21	2381	515, 516	89	1436
Lathe for turning balls	C. A. Hirth	634,981	Oct. 17	1845	437, 438	89	400
Lathe for turning buttons	D. B. Shantz. (Reissue)	11,766	Aug. 22	3796	845	88	1516

Alphabetical list of inventions—Continued.

Invention.	Name.	No.	Date.	Monthly volume. Spec.	Monthly volume. Drg.	Official Gazette. Vol.	Official Gazette. Page.
Lathe grinder attachment	H. Dock	634,232	Oct. 3	483	122	89	98
Lathe head. Engine-	W. P. Norton	626,715	June 13	912	206, 207	87	1809
Lathe. Multiple turning-	F. R. Clark	630,287	Aug. 1	1021	225	88	924
Lathe-spindle work-holder	A. Whitney and F. Harrington	628,730	July 11	1478	342, 343	88	309
Lathe. Spoke-	L. G. Robinson	639,294	Dec. 19	2034	468, 469	89	2298
Lathe-tool	C. Fosby	619,159	Feb. 7	698	150	86	948
Lathe-tool	W. R. Warner and H. M. Lucas	632,544	Sept. 5	629	147	88	1830
Lathe tool-holder	H. J. S. Cassal	637,084	Nov. 14	1638	354	89	1276
Lathe tool-holder	J. Gregory	628,707	July 11	1443	335	88	300
Lathe tool-holder. Turret-	A. C. H. Kraft	631,080	Aug. 15	2537	574, 575	88	1255
Lathe. Turret-	C. M. Conradson	639,888	Dec. 26	3128	719, 720, 721	89	2534
Lathe. Turret-	N. H. Fay	639,892	Dec. 26	3148	724	89	2537
Lathe. Turret-	J. Hartness	635,887	Oct. 31	3584	824, 825, 826, 827, 828, 829	89	766
Lathe. Turret-	J. Hartness	635,888	Oct. 31	3601	829, 830, 831	89	770
Lathe. Turret-	J. P. Lavigne	623,322	Apr. 18	2085	478	87	436
Lathe. Turret-	A. Swasey and H. M. Lucas	632,905	Sept. 12	1333	306	88	1984
Lathe. Wood-turning	W. S. Damon	617,721	Jan. 17	1635	367	86	357
Lathe work-holding die	F. and F. Koons	622,497	Apr. 4	555	130	87	105
Lathes, &c. Compound rest for engine-	E. Earle	637,769	Nov. 28	3315	694	89	1679
Lathes. Device for gaging and positioning tools of slide-rest	H. W. H. Powel	624,535	May 9	1089	245	87	933
Lathes. Jaw for face-plates or chucks for turning-	E. Ekerdt	630,202	Aug. 1	875	189	88	895
Lathes. Scoring-tool for veneer-	O. C. Fenlason	633,548	Sept. 19	2524	593	88	2228
Lathes. Speed-changing driving mechanism for	F. H. Crafts	622,329	Apr. 4	231	52	87	44
Lathes. Tool-support for metal-turning	W. L. Guise	630,778	Aug. 8	1969	445	88	1120
Laundry and kitchen table	J. F. I. Conway	621,033	Mar. 14	954	207, 208	86	1698
Laundry dampening-machine	W. E. Terry and E. Christen	618,018	Jan. 17	2200	491	86	467
Laundry-rack	M. H. Beaumont	620,831	Mar. 7	545	116	86	1609
Lawn-rake	P. B. Ensley	623,708	Apr. 25	2770	634	87	587
Lawn-sprinkler	A. L. Lambert	617,688	Jan. 10	1569	355	86	324
Lawn-sprinkler	F. W. Monroe	635,337	Oct. 24	2500	581	89	542
Lawn-sprinkler	W. Quayle	630,468	Aug. 8	1439	321	88	1017
Lawn-sprinkler	A. T. Snell	625,988	May 30	3715	843	87	1501
Lawn-sprinkler	J. M. Stouder	631,944	Aug. 29	4093	918	88	1588
Lawn-sprinkler. Traveling	W. Ballerstedt	625,920	May 30	3587	814, 815	87	1476
Lawn-trimmer	B. F. Martz	638,056	Nov. 28	3857	811	89	1788
Lawn-trimming device	S. Walters	619,644	Feb. 14	1552	353	86	1130
Laying-out or embalming board	H. C. Boettiger and O. Schlueter	622,322	Apr. 4	221	50	87	42
Leaching apparatus	G. C. Vaughn	622,570	Apr. 4	691	160, 161	87	131
Lead. Apparatus for treating white	G. Bischof	627,895	June 27	3121	684	87	2279
Lead by means of electrolysis. Producing white	C. Luckow	627,002	June 13	1480	------	87	1920
Lead chamber. White-	H. G. Percival	625,196	May 16	2259	513, 514	87	1176
Lead, &c. Drier for white	T. C. Sanderson	618,236	Jan. 24	2645	584	86	564
Lead into oxids. Converting metallic	A. W. Southard	618,213	Jan. 24	2597	574, 575	86	556
Lead or other pigments by electrolysis. Manufacturing white	H. C. Woltereck	631,839	Aug. 29	3918	876	88	1555
Lead oxid. Apparatus for making	S. Pope and G. V. Barton	633,533	Sept. 19	2494	586, 587	88	2223
Lead oxid. Manufacture of	W. E. S. Bunn and E. J. Case	639,209	Dec. 19	1877	433	89	2265
Lead. Process of and apparatus for producing white	E. Bailey, G. R. Cox, and W. T. Hey	625,918	May 30	3585	814	87	1475
Lead. Producing neutral chromate of	C. Luckow	626,331	June 6	212	------	87	1653
Lead. Producing peroxid of	C. Luckow	626,330	June 6	211	------	87	1653
Lead sucrate. Making	G. Kassner	628,985	July 18	1939	------	88	415
Lead, zinc, or silver from complex sulfidic ores. Extracting	C. Hoepfner	629,856	Aug. 1	186	------	88	757
Leading-machine	J. H. Ferguson	619,016	Feb. 7	421	88	86	892
Leaf-turner	J. E. Pellow	621,769	Mar. 21	2284	514	86	1969
Leaf-turner	J. E. Wize	627,608	June 27	2618	576	87	2180
Leak-closer	W. D. Beaver	631,867	Aug. 29	3964	886	88	1564
Leak-stopper	S. M. Stewart	633,537	Sept. 19	2501	588	88	2224
Lease-rod	F. L. Hammond	630,347	Aug. 8	1173	257	88	970
Lease-rod	H. Kelly	624,658	May 9	1299	290	87	974
Leather and making same. Patent-	W. D. Field	627,493	June 27	2383	------	87	2134
Leather and preparing same. Substitute for	W. W. McLaurin	632,195	Aug. 29	4584	------	88	1685
Leather. Apparatus for extracting grease from	F. F. Newell	634,670	Oct. 10	1289	304	89	274
Leather. Apparatus for manufacturing imitation	J. F. Roulleau	632,325	Sept. 5	215	50,51	88	1749
Leather-coloring machine	A. F. Jones	621,457	Mar. 21	1704	377, 378	86	1857
Leather. Composition for tawing	J. W. Smith	632,208	Aug. 29	4603	------	88	1688
Leather-cutting machine	H. Parsons	630,402	Aug. 8	1289	282	88	990
Leather-dressing apparatus	E. B. Parkhurst	618,581	Jan. 31	3286	729, 730	86	702
Leather-dressing machine	O. F. Feix	636,970	Nov. 14	1420	304, 305	89	1234
Leather-dressing machine	C. E. Pellow	632,364	Sept. 5	276	64,65	88	1761

Alphabetical list of inventions—Continued.

Invention.	Name.	No.	Date.	Monthly volume.		Official Gazette.	
				Spec.	Dr'g.	Vol.	Page.
Leather-drying apparatus	W. A. McManus	626,921	June 13	1330	292, 293	87	1889
Leather-drying apparatus	R. Mchun	625,784	May 30	3320	754	87	1426
Leather. Dyeing	R. Rieder	636,178	Oct. 31	4172	957	89	884
Leather. Enameled	G. S. Wolff	632,162	Aug. 29	4508	1015	88	1671
Leather. Enameled	G. S. Wolff	632,163	Aug. 29	4510	------	88	1672
Leather-gage	A. J. Bruce	621,518	Mar. 21	1816	403	86	1877
Leather-grading machine	J. C. Jadicke and J. Wiener	638,337	Dec. 5	285	58, 59	89	1921
Leather-ironing machine	W. P. Roberts	637,669	Nov. 21	3131	649, 650	89	1623
Leather manufacture	E. E. M. Payne, J. and E. E. Pullman.	618,722	Jan. 31	3537	------	86	751
Leather. Manufacturing and finishing	C. E. and H. A. Lappe	622,926	Apr. 11	1342	------	87	274
Leather. Method of and machine for expressing moisture from	E. J. F. Quirin	619,614	Feb. 14	1480	338, 339	86	1117
Leather-rolling machine	S. J. Brissette	638,862	Dec. 12	1252	283, 284	89	2130
Leather scouring and setting machine	M. A. Holmes and F. A. Bradford	629,687	July 25	3222	750	88	682
Leather-skiving machine	C. H. Bayley	636,942	Nov. 14	1377	293	89	1225
Leather-snipping machine	T. F. Hart	639,233	Dec. 19	1923	442, 443	89	2275
Leather-softening machine	J. Hall	618,540	Jan. 31	3213	712, 713	86	688
Leather-splitting machine	J. Busfield	629,062	July 18	2072	483, 484	88	441
Leather-splitting machine	A. A. Chilson	626,858	June 13	1193	264, 265	87	1863
Leather-splitting machine	J. Cryderman	618,060	Jan. 24	2301	514	86	501
Leather-splitting machine	J. Hall	619,477	Feb. 14	1249	285, 286, 287	86	1073
Leather-staking machine	F. C. Kimball	638,250	Dec. 5	93	21, 22	89	1884
Leather-staking machine	C. F. Stackpole	617,368	Jan. 10	983	226	86	210
Leather-stretching machine	G. A. Rhoads	621,709	Mar. 21	2160	481	86	1946
Leather. Tawing	J. W. Smith	632,154	Aug. 29	4498	------	88	1669
Leather. Waterproof oil-filler for	S. Jakubowski	634,754	Oct. 10	1447	------	89	304
Leather-whitening machine	T. P. Coombs	631,359	Aug. 22	3026	686	88	1370
Leather-working machine	F. F. Slocomb	630,122	Aug. 1	738	159	88	869
Leather-working machinery	W. J. Dunham	630,039	Aug. 1	593	129	88	840
Ledger balance-indicator	J. L. Read	621,583	Mar. 21	1927	431	86	1899
Ledger balance-sheet	H. Swalley	619,366	Feb. 14	1058	237	86	1036
Ledger balance-sheet	H. Swalley	629,404	July 25	2704	629	88	583
Ledger. Detachable-leaf	E. Marsky	639,420	Dec. 19	2282	527	89	2347
Ledger or file. Loose-leaf	J. W. Amrath	638,208	Dec. 5	1	1	89	1867
Ledger. Perpetual	W. N. Winfield	619,525	Feb. 14	1334	306	86	1090
Ledger. Transfer-	J. Barker	623,349	Apr. 18	2135	491	87	446
Ledgers, boards, &c. Device for removing	J. Dorman	625,654	May 23	3072	700	87	1360
Leg and ankle brace	G. P. Hill	618,097	Jan. 24	2371	529, 530	86	515
Leg. Artificial	W. Andrews	616,873	Jan. 3	4	2	86	3
Lemon cutter and squeezer	W. Jaques	620,142	Feb. 28	2473	561, 562	86	1348
Lemon-juice extractor	A. F. Groundman	633,997	Oct. 3	31	10	89	10
Lemon-squeezer	L. M. Devore	625,838	May 30	3433	779	87	1447
Lemon-squeezer	C. Hunt	625,507	May 23	2821	643	87	1309
Lemon-squeezer	W. H. James	628,470	July 11	975	226	88	208
Lemon-squeezer	E. D. Middlekauff	626,626	June 6	719	166	87	1754
Lemon-squeezer	E. D. Middlekauff	633,247	Sept. 19	1981	464, 465	88	2124
Lemon-squeezer	C. Morgan	630,391	Aug. 8	1270	277, 278	88	987
Lemon-squeezer	J. W. Neal	620,047	Feb. 21	2301	522	86	1299
Lemon-squeezer	G. E. Savage	628,254	July 4	568	136	88	111
Lemon-squeezer	W. White	632,387	Sept. 5	324	73	88	1771
Lens. Bifocal	J. L. Borsch	625,535	May 23	2864	652	87	1319
Lens. Bifocal	J. L. Borsch	637,444	Nov. 21	2352	508	89	1431
Lens grinding and polishing machine	E. Schadeli	619,793	Feb. 21	1855	423	86	1215
Lenses. Apparatus for shaping and beveling edges of glass	J. West	629,634	July 25	3130	729	88	665
Letter and package deposit box. Street	S. D. Warfield	625,819	May 30	3399	771, 772	87	1441
Letter-box	J. Carr	624,623	May 9	1243	278	87	964
Letter-box	J. A. Kline	634,006	Oct. 3	45	14	89	13
Letter-box	K. J. Peers	621,973	Mar. 28	2690	605, 606	86	2062
Letter-box	F. C. Riely	622,265	Apr. 4	114	26	87	25
Letter-box	J. Teevan and J. F. Hoyne	626,251	June 6	59	13	87	1626
Letter-box and bell. Combined	H. Elrod	630,203	Aug. 1	876	189	88	896
Letter-box lock-cover. Street	C. Bomberger	626,266	June 6	79	20	87	1630
Letter-box register	J. N. Clouse	635,426	Oct. 24	2731	626	89	588
Letter-box. Street	J. N. Clouse	633,105	Sept. 12	1703	401	88	2057
Letter-boxes. Collection time-card for	W. H. Ansell	622,434	Apr. 4	424	98	87	79
Letter-carrier's bag	M. McCarthy	633,884	Sept. 26	3146	730	88	2366
Letter. Detachable sign-	C. F. Johnson	630,458	Aug. 8	1420	317	88	1013
Letter for signs. Electric	C. A. Chase	623,275	Apr. 18	2002	459	87	419
Letter-opener	H. Markham	635,495	Oct. 24	2850	651	89	611
Letter-press	D. L. Hardy and A. L. Maple	628,266	July 4	586	139	88	114
Letter-press	M. G. Lewis	637,879	Nov. 28	3534	740	89	1724
Letter. Sign-	R. G. Lake	635,103	Oct. 17	2083	490	89	447
Leuring-iron	W. S. Hadaway, Jr	620,305	Feb. 28	2759	632	86	1402
Level	N. C. Merrill	621,358	Mar. 21	1528	340	86	1823
Level	A. Thompson	624,577	May 9	1167	262	87	949
Level	J. H. Zimmerman	635,837	Oct. 31	3496	803	89	749
Level and angle-measuring device. Combined	G. Langer	621,258	Mar. 14	1338	297	86	1773
Level and plumb. Combined	J. Keyser and C. Roche	628,334	July 4	731	169	88	141
Level and square. Plumb-	J. F. Wright	636,191	Oct. 31	4196	963	89	889

Alphabetical list of inventions—Continued.

Invention.	Name.	No.	Date.	Montbly volume. Spec.	Dr'g.	Official Gazette. Vol.	Page.
Level. Ditching-	S. E. Garner	616,912	Jan. 3	87	18	86	19
Level for tracks	D. J. Whittemore	631,976	Aug. 29	4153	934	88	1600
Level. Gravity plumb-	T. W. Hughes	631,793	Aug. 29	3851	858	88	1541
Level. Plumb-	F. B. Hinkson and W. I. Crawford	633,589	Sept. 26	2638	616	88	2265
Level. Plumb-	J. J. Jordan and C. L. Wallace	635,782	Oct. 31	3386	782	89	729
Level. Plumb-	K. Martin	635,564	Oct. 24	2976	682	89	635
Level. Plumb-	J. E. Ramsey	636,843	Nov. 14	1164	252	89	1184
Level. Plumb-	R. B. Young	634,657	Oct. 10	1266	299	89	270
Level, plumb, and inclinometer. Combined	C. D. Hodge	632,182	Aug. 29	4568	1028	88	1682
Level. Spirit-	C. O. L. Cardell	625,019	May 16	1951	437	87	1120
Leveler and roller. Bicycle-path or sidewalk	S. P. Hedges	620,034	Feb. 21	2275	516	86	1295
Leveling or grading instrument	F. C. Brown	630,856	Aug. 15	2112	479	88	1172
Leveling-rod	J. S. Millikin and W. E. Bowen	624,362	May 2	757	170	87	845
Leveling-rod attachment. Surveyor's	W. G. Classon	637,501	Nov. 21	2454	533	89	1450
Lever-actuated gate	J. M. Bell	630,442	Aug. 8	1381	309	88	1006
Lever-arms to their shafts. Means for securing	A. J. Robinson	617,124	Jan. 3	509	121	86	100
Lever attachment	J. W. Brown	637,075	Nov. 14	1627	352	89	1274
Lever. Throttle-	L. W. Canady	624,294	May 2	640	140	87	821
Library or parcel servitor	P. Reich	636,558	Nov. 7	576	128, 129	89	1038
Lid and card holder	R. H. Suettinger	639,312	Dec. 19	2063	474	89	2304
Lid-holder	L. Hoage and A. Nyvall	626,023	May 30	3832	869	87	1522
Lid-holder and advertising device	L. F. Stoecker	635,904	Oct. 31	3629	836	89	776
Lid-supporting device. Adjustable	J. M. Butcher	636,950	Nov. 14	1389	296	89	1227
Life-preserver	Z. C. Angevine	635,069	Oct. 17	2000	473	89	431
Life-preserver	F. W. Jurgschat	637,872	Nov. 28	3521	736	89	1721
Life-preserver	E. Kunert	635,439	Oct. 24	2756	630, 631	89	592
Life-preserver	K. E. Landau	626,283	June 6	119	30	87	1636
Life-preserver	F. Strattner	639,790	Dec. 26	2972	684	89	2505
Life-saving appliance	H. De Wilde	634,445	Oct. 10	901	217	89	197
Lift for asphalt, &c	C. L. Cummings	638,626	Dec. 5	829	178, 179	89	2025
Lift safety-gear	J. P. Halket and J. Kennedy	629,033	July 18	2025	471, 472	88	432
Lifter:							
See Kettle-lifter. Pot and lid lifter.							
Log-lifter. Sack-lifter.							
Pan-lifter. Skylight-lifter.							
Pan or lid lifter. Store-goods lifter.							
Pan, pot, or lid lifter. Transom-lifter.							
Pie-plate lifter.							
Lifter for dishes, pans, plates, &c	F. E. Daudelin	622,942	Apr. 11	1366	313	87	279
Lifting apparatus	F. A. Gordon	617,828	Jan. 17	1858	415	86	401
Lifting apparatus	J. H. Lorimer	620,158	Feb. 28	2493	567	86	1351
Lifting device	J. V. Maxey	632,055	Aug. 29	4304	967, 968	88	1630
Lifting device for sick persons	C. W. Jones	618,274	Jan. 24	2705	600	86	576
Lifting device. Magnetic	A. Monell	621,267	Mar. 14	1357	301	86	1777
Lifting-hooks. Stevedore's	C. M. Tiffany	626,350	June 6	249	58	87	1662
Lifting-jack	D. K. Allison	637,494	Nov. 21	2443	530	89	1448
Lifting-jack	O. P. Cox	622,208	Apr. 4	19	4, 5	87	6
Lifting-jack	F. M. Floyd	640,120	Dec. 26	3563	819	89	2624
Lifting-jack	E. F. Hamlin	626,205	May 30	4200	954	87	1590
Lifting-jack	W. C. Hildebrand	628,803	July 11	1619	373	88	337
Lifting-jack	W. Luke	636,678	Nov. 7	810	179	89	1086
Lifting-jack	T. Maxon	635,105	Oct. 17	2087	491	89	448
Lifting-jack	I. H. Murdick	622,512	Apr. 4	576	135	87	109
Lifting-jack	A. Olsen	632,197	Aug. 29	4586	1033	88	1685
Lifting-jack	J. H. Osborne	626,086	May 30	3944	896	87	1543
Lifting-jack	J. Scharer, Jr	634,035	Oct. 3	93	24	89	23
Lifting-jack	L. C. Vickrey	635,824	Oct. 31	3469	797	89	744
Lifting-jack and wrench. Combined	I. A. Weaver	634,548	Oct. 10	1086	258	89	234
Ligature-receptacle	J. W. Wallace	618,923	Feb. 7	198	42	86	843
Light:							
See Electric light. Incandescent light.							
Head and signal light. Incandescent arc-light.							
Sidewalk-light.							
Light-extinguisher. Time	J. Gunning	631,522	Aug. 22	3333	757	88	1431
Light for sidewalks, &c	J. Jacobs	619,575	Feb. 14	1412	325	86	1104
Light-increasing device and smoke-bell. Combined	L. A. Perrottet and E. Angly	637,027	Nov. 14	1539	331	89	1258
Light-projecting glass	G. Moffat and E. J. Dobbins	637,145	Nov. 14	1779	381	89	1302
Light-wells. Means for closing	M. H. Crittenden	616,902	Jan. 3	66	14	86	15
Lighter. Magazine-	F. Goff and T. H. Joiner	639,169	Dec. 12	1782	413	89	2234
Lighter. Pocket-	W. Trabue	619,635	Feb. 14	1534	349	86	1127
Lighting and alarm device. Combined	J. Thorsen	620,513	Feb. 28	3093	708	86	1466
Lighting device	J. H. Kendle	634,004	Oct. 3	43	13	89	12
Lighting device. Hydrocarbon-	C. L. Ballard	634,794	Oct. 10	1505	354	89	316
Lighting fountains, &c. Means for	A. Engelsmann	620,900	Mar. 14	674	146, 147	86	1647
Lightning-arrester	T. B. Hughes	637,794	Nov. 28	3358	704	89	1688
Lightning-arrester	D. Messick	636,441	Nov. 7	356	80	89	993
Lightning-arrester	E. C. Parham	618,950	Feb. 7	279	60	86	864
Lightning-arrester and fusible cut-out. Combined	B. L. Lawton and E. C. Wilcox	617,170	Jan. 3	596	140	86	117
Lightning-arrester for electric circuits	H. C. Wirt	634,932	Oct. 17	1746	414	89	379
Lightning-conductor	G. Raunacher	623,033	Apr. 11	1528	354	87	312
Lightning-rod	H. J. Stuart and D. D. Woodman	636,081	Oct. 31	4004	915	89	848
Lightning-rods. Machine for making	W. Dodd	630,334	Aug. 8	1135	248, 249	88	961
Limb. Artificial	J. Burg	619,716	Feb. 21	1698	388	86	1184

Alphabetical list of inventions—Continued.

Invention.	Name.	No.	Date.	Monthly volume. Spec.	Monthly volume. Dr'g.	Official Gazette. Vol.	Official Gazette. Page.
Limb. Artificial	M. B. Donaldson	621,638	Mar. 21	2023	451	86	1918
Limb. Artificial	W. E. Ginn	622,140	Mar. 28	2983	673, 674	86	2121
Limb. Artificial	M. E. Rice	630,630	Aug. 8	1737	389	88	1074
Limb. Artificial	L. Riebel, Jr	623,741	Apr. 25	2814	644, 645	87	596
Limbs. Hinge-joint for artificial	J. F. Rowley	631,385	Aug. 22	3081	697	88	1381
Limbs. Hinge-joint for artificial	J. Wambsgans	620,999	Mar. 14	870	189	86	1683
Lime, cement, or mortar. Composition for making carbonated hydraulic	H. J. Livingston	620,155	Feb. 28	2490		86	1351
Lime liquor. Apparatus for making bisulfite-of-	V. Drewsen	617,237	Jan. 3	714	166	86	140
Lime. Treatment of	H. H. Pierce	622,388	Apr. 4	319		87	61
Liming-vats. Agitator for	E. Vockler	637,685	Nov. 21	3171	657	89	1631
Line-casting machine	H. J. Derbyshire	621,329	Mar. 21	1479	328	86	1814
Line-casting-machine space-bar	A. W. Hanigan and G. H. Yardley	623,014	Apr. 11	1497	347	87	306
Line-holder	J. Brough	623,072	Apr. 11	1585	365	87	323
Link-and-chain-making machine	G. Skogse	633,371	Sept. 19	2223	524	88	2171
Linoleum. Apparatus for use in manufacturing inlaid	C. H. Scott	638,071	Nov. 28	3876	816, 817	89	1792
Linotype and making same	A. E. Dowell	620,288	Feb. 28	2726	625	86	1396
Linotype and mold therefor	G. A. Bates	635,640	Oct. 24	3110	715	89	662
Linotype-casting machine	H. J. Derbyshire	635,305	Oct. 24	2453	570	89	533
Linotype-machine	L. M. Chapman and J. M. Gelatt	624,454	May 9	933	208	87	904
Linotype-machine	W. S. Coe	619,392	Feb. 14	1104	249	86	1045
Linotype-machine	W. S. Coe	619,393	Feb. 14	1106	250	86	1045
Linotype-machine	F. C. Damm	638,866	Dec. 12	1259	285, 286, 287	89	2131
Linotype-machine	P. T. Dodge	618,044	Jan. 17	2251	502, 503, 504	86	477
Linotype-machine	P. T. Dodge	619,8'5	Feb. 21	2007	456	86	1244
Linotype-machine	A. Greenleaf	631,989	Aug. 29	4179	940	88	1605
Linotype-machine	C. Muehleisen	634,536	Oct. 10	1059	253, 254	89	229
Linotype-machine	B. Nadall	630,396	Aug. 8	1278	280	88	988
Linotype-machine	F. B. Reed	618,618	Jan. 31	3346	744	86	713
Linotype-machine	W. Reid and F. Hess	636,390	Nov. 7	277	62	89	977
Linotype-machine	J. R. Rogers	619,441	Feb. 14	1198	271	86	1062
Linotype-machine	J. R. Rogers	620,804	Mar. 7	494	105	86	1599
Linotype-machine	J. R. Rogers	630,112	Aug. 1	724	156	88	867
Linotype-machine	J. R. Rogers	640,032	Dec. 26	3400	779	89	2591
Linotype-machine	J. R. Rogers	640,033	Dec. 26	3403	780, 781	89	2592
Linotype-machine attachment	W. C. Trownsell and J. R. Trego	620,381	Feb. 28	2887	661, 662	86	1427
Linotype-machine ejector	H. F. Meistrell	639,077	Dec. 12	1621	372, 373	89	2201
Linotype-machine mold	G. A. Bates	618,554	Jan. 31	3241	719, 720	86	693
Linotype-machine mold	C. Holliwell and W. J. Lewis	637,117	Nov. 14	1719	370, 371	89	1290
Linotype-machine molds. Mechanism for moving	E. Girod	638,868	Dec. 12	1268	288, 289	87, 89	2132
Linotype-machine trimming mechanism	C. L. Ireland	636,001	Oct. 31	3818	878	89	813
Linotype-machine trimming mechanism	F. J. Wich	635,830	Oct. 31	3482	800, 801	89	746
Linotype-machines. Mechanism for releasing space-bars of	F. C. Dolby	635,997	Oct. 31	3810	876	89	811
Linotype matrix-dies. Apparatus for straightening	C. A. Nelson	636,686	Nov. 7	826	183	89	1090
Linotype-mold adjuster	J. D. Harvey	625,445	May 23	2718	618	89	1289
Linotype or analogous machine	E. Girod	625,972	May 30	3682	837	87	1494
Linotype or analogous machines. Magazine for	R. C. Elliott	635,998	Oct. 31	3811	877	89	812
Linotype or line-casting machine	J. D. Harvey	618,348	Jan. 24	2832	629	86	600
Linotypes. Mechanism for casting curved	F. J. Wich	618,308	Jan. 24	2768	613, 614	86	589
Linotyping or type-setting machines. Distributer or assorter for	A. S. Gilman	633,190	Sept. 19	1862	438, 439	88	2100
Linter	M. Swenson	639,313	Dec. 19	2064	474, 475	89	2304
Lip-guard and protector	A. C. Tebbetts	622,564	Apr. 4	684	159	87	130
Lip turning and slitting machine	J. B. Hadaway	635,772	Oct. 31	3359	777	89	723
Lip-turning machine	J. B. Hadaway	638,010	Nov. 28	3781	795	89	1772
Liquid-cooler	G. A. Cless	630,660	Aug. 8	1781	402	88	1082
Liquid-cooler	J. Douglass	621,231	Mar. 14	1297	287	86	1766
Liquid-cooling apparatus	G. A. Barnard	617,218	Jan. 3	677	157	86	132
Liquid-delivering apparatus	F. J. Mitchell	622,249	Apr. 4	84	19	87	20
Liquid-discharging apparatus	W. H. Rice	638,207	Nov. 28	4164	879	89	1849
Liquid-dispensing apparatus	A. Haye	624,208	May 2	483	104	87	792
Liquid-dispensing apparatus	G. Matthews	634,695	Oct. 10	1333	315	89	282
Liquid-dispensing can	C. M. Husted	639,393	Dec. 19	2235	517	89	2339
Liquid-dispensing device. Coin-operated	R. F. Tochtermann	639,114	Dec. 12	1699	392	89	2217
Liquid-dispensing jar. Pneumatic	F. H. Lippincott and W. Morlok	636,537	Nov. 7	543	119	89	1030
Liquid-dispensing vessel. Self-measuring	H. C. Beman and F. H. Raymond	640,081	Dec. 26	3491	800, 801	89	2609
Liquid-distributer	F. W. Stoddart	632,795	Sept. 12	1122	258	88	1945
Liquid-distributer	J. W Tallmadge	616,990	Jan. 3	238	55	86	47
Liquid-distributing device	J. O. Reed	617,355	Jan. 10	951	219	86	205
Liquid filling or racking apparatus	J. Schneible	633,663	Sept. 26	2764	642, 643	88	2289
Liquid-fuel burner	A. Carlstrom	636,756	Nov. 14	1010	216	89	1153
Liquid-heating apparatus	A. W. and L. W. Case	621,031	Mar. 14	950	207	86	1698
Liquid-holding can	G. Lambert	629,571	July 25	3009	702	88	641
Liquid-level indicator	H. Rasmussen	628,353	July 4	760	175	88	146
Liquid-meter	S. L. Brown	635,086	Oct. 17	1934	459	89	417

Alphabetical list of inventions—Continued.

Invention.	Name	No.	Date.	Monthly volume.		Official Gazette.	
				Spec.	Dr'g.	Vol.	Page.
Liquid-meter	W. M. Fowler	619,473	Feb. 14	1242	283	86	1071
Liquid-meter	C. A. Gray and F. H. Farrar	628,312	July 4	692	161	88	133
Liquid or semiliquid goods. Incasing	E. von Bühler	636,317	Nov. 7	153	33	89	952
Liquid or viscous substances. Device for retaining	A. H. Gerdom	626,021	May 30	3829	868	87	1522
Liquid-purifier. Centrifugal	W. Goldsworthy	637,729	Nov. 21	3241	674	89	1644
Liquid-separator. Centrifugal	L. Burrell	624,907	May 16	1762	398	87	1083
Liquid-separator. Centrifugal	C. H. Hackett and C. E. Dailey	640,130	Dec. 26	3578	824	89	2628
Liquids. Apparatus for charging bottles with	W. Hucks, Jr	624,335	May 2	717	159	87	837
Liquids. Apparatus for dispensing aerated	J. Cedarstrom	633,802	Sept. 26	2999	697, 698	88	2337
Liquids. Apparatus for drawing off fixed quantities of	W. Turnbull	621,388	Mar. 21	1575	349	86	1832
Liquids. Apparatus for drawing off fixed quantities of	W. Turnbull	639,316	Dec. 19	2073	476	89	2307
Liquids. Apparatus for regulating the level of	K. Grosswyler	628,581	July 11	1191	278	88	249
Liquids charged with carbonic-acid gas. Apparatus for forcing	E. Goodamote	631,008	Aug. 15	2388	543, 544	88	1226
Liquids. Closing device for receptacles having capillary openings for transport, storage, and use of volatile	R. Zimmermann	635,631	Oct. 24	3096	710	89	659
Liquids. Closing device for vessels for containing volatile	L. Goybet	628,460	July 11	952	222	88	203
Liquids for combustion, &c. Raising and supplying	P. A. N. Winand	618,550	Jan. 31	3232	717	86	691
Liquids from bottles, &c. Apparatus for drawing off aerated	T. Ferguson	624,199	May 2	464	97,98	87	788
Liquids from fibrous materials. Apparatus for separating	R. Bodmer and J. Schwarzenbach	626,523	June 6	559	129	87	1722
Liquids from solids. Apparatus for separating	W. A. Köneman and W. H. Hartley	617,029	Jan. 3	316	75,76	86	63
Liquids. Means for purifying	D. Reynolds	618,522	Jan. 31	3183	703	86	681
Liquids. Pneumatic apparatus for raising	W. Evans	623,357	Apr. 18	2151	495	87	448
Liquids. Purifying	J. M. Ordway	621,128	Mar. 14	1122	------	86	1731
Liquids. Receptacle for combustible	A. S. Greenwood	632,563	Sept. 5	654	152	88	1836
Liquids. Separating substances in the state of suspension from	W. Rothe	618,998	Feb. 7	396	82	86	887
Liquids to receptacles. Apparatus for automatically delivering	D. Cameron and F. J. Commin	634,424	Oct. 3	854	206, 207, 208	89	171
Liquids. Treating	C. S. Dolley, M. O. Rehfuss, and J. Hunt.	627,398	June 20	2216	488, 489	87	2084
Liquor contained in bottles. Means for identifying brands of	H. Ellis	627,773	June 27	2908	636	87	2238
Liquors from wool-washings. Purifying	W. Leach	632,419	Sept. 5	374	85,86	88	1780
Listening-key or circuit-changer for operators' keyboards.	J. Baxter	623,117	Apr. 11	1702	393	87	344
Listing-machine	W. R. Blanchard, L. Matthews, and C. Watkins.	633,303	Sept. 19	2077	487	88	2142
Litharge. Manufacturing	C. V. Petraeus	637,028	Nov. 14	1541	331, 332	89	1258
Lithographer's transfer-paper	C. H. Veale	625,524	May 23	2848	------	87	1315
Lithographic machine	J. C. Halligan	633,958	Sept. 26	3276	763	88	2392
Lithographic press	J. C. Halligan	634,616	Oct. 10	1199	284	89	255
Lithographic press	E. Hett	637,574	Nov. 21	2817	582, 583	89	1543
Lithographic press	E. Hett	637,576	Nov. 21	2837	584, 585	89	1550
Lithographic-press damping mechanism	E. Hett	637,575	Nov. 21	2824	583, 584	89	1545
Lithographic-press registering-frame	W. Sabel	635,061	Oct. 17	1986	469, 470	89	428
Lithographic-printing plate	P. G. Frauenfelder	637,551	Nov. 21	2554	553	89	1470
Lithographic-printing press	E. Hett	637,568	Nov. 21	2731	570, 571, 572, 573, 574	89	1523
Lithographic-printing tubes. Apparatus for handling	E. Hett	637,581	Nov. 21	2856	589	89	1555
Lithographic-stone-surfacing machine	C. G. Warner	639,953	Dec. 26	3259	746, 747, 748	89	2562
Lithographic-stone-surfacing wheel	C. G. Warner	639,954	Dec. 26	3267	748	89	2563
Lithographic transfer and printing press and printing-form.	E. Hett	637,562	Nov. 21	2694	561, 562	89	1513
Lithographic transferring and printing	E. Hett	637,600	Nov. 21	2978	612, 613	89	1589
Lithographic transferring and printing. Apparatus for	E. Hett	637,601	Nov. 21	2981	613	89	1589
Loading and unloading stone. Attachment for wagons for	J. W. Knopp	623,676	Apr. 25	2715	623	87	578
Loading apparatus. Vessel-	S. H. Bradford	619,128	Feb. 7	628	134, 135	86	934
Loading or unloading apparatus	G. H. Hulett	631,717	Aug. 22	3689	827, 828	88	1500
Loading platform. Portable vessel-	C. R. Allen	629,975	Aug. 1	460	99	88	814
Loading vessels. Grain-trimming machine used in	C. T. Suderman and G. W. Lacy	634,775	Oct. 10	1474	347	89	310
Loading vessels. Runway for	A. Mullan	623,615	Apr. 25	2612	597	87	558
Loads. Apparatus for raising, lowering, and conveying	J. and J. R. Temperley	622,830	Apr. 11	1158	267, 268, 269	87	239
Loads suspended from cranes, &c. Apparatus for dumping, depositing, or releasing	J. and J. R. Temperley	637,182	Nov. 14	1846	395, 396, 397, 398	89	1314

Alphabetical list of inventions—Continued.

Invention.	Name.	No.	Date.	Monthly volume. Spec.	Monthly volume. Dr'g.	Official Gazette. Vol.	Official Gazette. Page.
Lock:							
See Alarm-lock							
Bicycle-lock.							
Bicycle alarm-lock.							
Bicycle-stand lock.							
Binder-lock.							
Bolt-lock.							
Car-door lock.							
Combination-lock.							
Cycle-lock.							
Cylinder-lock.							
Damper-lock.							
Door-lock.							
Electric lock.							
Elevator safety-lock.							
Fence-lock.							
Garment-holder coin-lock.							
Hasp-lock.							
Holdback-lock.							
Knob-lock.							
Ladder-lock.							
Latch-lock.							
Mail-pouch lock.							
Nut-lock.							
Padlock.							
Permutation-lock.							
Pin-lock.							
Safe-lock.							
Sash-lock.							
Sash and blind lock.							
Seal-lock.							
Soap-lock.							
Staple-lock.							
Switch-lock.							
Time-lock.							
Trunk-lock.							
Wagon-gate lock.							
Window-lock.							
Lock	T. A. Anderson	625,825	May 30	3408	774	87	1442
Lock	A. Anderson	633,352	Sept. 19	2190	514	88	2164
Lock	J. F. Anderson	630,839	Aug. 15	2082	470, 471	88	1166
Lock	I. J. Babcock	624,609	May 9	1218	274	87	959
Lock	R. S. Bowen	638,439	Dec. 5	483	98	89	1959
Lock	O. H. Burden and S. Lovatt	637,497	Nov. 21	2448	532	89	1449
Lock	J. Clement	632,959	Sept. 12	1417	327, 328	88	2001
Lock	A. D. Cushing	619,143	Feb. 7	661	142	86	941
Lock	J. J. Dillenbeck and E. Flueso	639,219	Dec. 19	1896	437	89	2268
Lock	J. A. Durnbaugh	625,249	May 16	2358	536	87	1195
Lock	T. Foy	631,784	Aug. 29	3835	854	88	1538
Lock	F. Gallant	630,046	Aug. 1	603	131	88	843
Lock	J. W. Haglund	626,376	June 6	313	72	87	1674
Lock	W. S. Houser	626,616	June 6	704	163	87	1751
Lock	O. Katzemberger	626,167	May 30	4131	941	87	1577
Lock	W. B. Kelsey	635,783	Oct. 31	3387	782	89	729
Lock	R. Luckenbach	630,614	Aug. 8	1697	381	88	1067
Lock	L. Martel	629,453	July 25	2789	648, 649	88	600
Lock	W. R. McMillan	629,808	Aug. 1	83	21	88	736
Lock	A. Mirot	619,202	Feb. 7	770	167	86	962
Lock	B. Phelps	626,338	June 6	221	53	87	1655
Lock	B. Phelps	626,339	June 6	224	54	87	1655
Lock	B. Phelps	626,340	June 6	226	54	87	1656
Lock	B. Phelps	626,341	June 6	231	54, 55	87	1657
Lock	B. Phelps	626,342	June 6	235	55	87	1659
Lock	B. Phelps	626,343	June 6	236	55, 56	87	1659
Lock	B. Phelps	626,344	June 6	240	56	87	1660
Lock	B. Phelps	631,431	Aug. 22	3166	719	88	1397
Lock	B. Phelps	631,432	Aug. 22	3166	719	88	1397
Lock	B. Phelps	631,433	Aug. 22	3167	719	88	1398
Lock	B. Phelps	631,434	Aug. 22	3170	719, 720	88	1398
Lock	C. W. A. Romer	623,831	Apr. 25	3018	693, 694	87	636
Lock	D. di B. Savorgnan	633,614	Sept. 26	2685	625, 626	88	2273
Lock	S. Shaw	617,361	Jan. 10	958	220	86	206
Lock	L. Silverman	625,708	May 23	3163	718	87	1377
Lock	W. E. Sparks	623,264	Apr. 18	1983	454	87	415
Lock	G. C. Stanley	618,486	Jan. 31	3109	688	86	668
Lock	A. J. Stoops	620,376	Feb. 28	2879	659	86	1424
Lock	A. S. Vogt	637,305	Nov. 21	2090	450, 451	89	1377
Lock	A. J. Warner	619,524	Feb. 14	1334	306	86	1090
Lock	C. E. Yeager	631,918	Aug. 29	4053	909	88	1581
Lock and latch	S. P. Stevenson	633,536	Sept. 19	2500	588	88	2224
Lock and latch case	C. R. Heckford	634,688	Oct. 10	1323	313	89	280
Lock and latch. Combined	O. F. Day	626,147	May 30	4087	932	87	1568
Lock and latch combined	A. R. Fergusson and S. Chase	617,648	Jan. 10	1495	341	86	311
Lock and wrench. Combined	F. Lombard and C. Miller	625,341	May 23	2542	578	87	1255
Lock-case	A. J. Warner	619,523	Feb. 14	1333	306	86	1090
Lock-front	W. H. Taylor	620,510	Mar. 7	511	108	86	1602
Lock-lever	G. J. Riblet, Sr	629,208	July 18	2343	543	88	492
Lock-lubricator	J. C. Maass	639,819	Dec. 26	3025	696	89	2515
Lock or latch case	H. G. Voight	623,296	Apr. 18	2040	468	87	427
Lock-strike	J. S. Smith	633,918	Sept. 26	3200	746	88	2377
Locks for desks. Device for controlling combination	J. P. Fangel	632,454	Sept. 5	449	101	88	1796
Locks. Making safety	H. Brisselet	623,701	Apr. 25	2759	632	87	586
Locks. Manipulating attachment for combination	M. Mosler	639,599	Dec. 19	2597	597	89	2412
Locks. Operating-handle for combination	A. G. Jacobs	629,999	Aug. 1	512	112	88	824
Locking device	A. S. Brown	632,232	Sept. 5	8	3	88	1710
Locking device	H. M. Godfrey	632,502	Sept. 5	653	152	88	1836
Locking device. Desk	J. P. Fangel	638,226	Dec. 5	31	8	89	1873
Locking device for securing articles. Coin-controlled	F. Auspitz	625,488	May 23	2789	635	87	1304
Locking or unlocking means for emergency exit-doors.	T. E. Hewitt	634,821	Oct. 10	1551	365	89	324
Locomotion. Electric	H. Van Hoevenbergh	628,968	July 18	1911	444, 445	88	409
Locomotion. Means for	A. Vietor	618,591	Jan. 31	3303	734, 735	86	705

Alphabetical list of inventions—Continued.

Invention.	Name.	No.	Date.	Monthly volume. Spec.	Monthly volume. Dr'g.	Official Gazette. Vol.	Official Gazette. Page.
Locomotive	C. A. Couch	617,564	Jan. 10	1346	302	86	281
Locomotive	A. Given	633,831	Sept. 26	3050	708, 709	88	2347
Locomotive	E. Sarver	635,600	Oct. 24	3033	696	89	645
Locomotive	J. M. Thompson	637,430	Nov. 21	2330	503	89	1427
Locomotive ash-pan	T. W. Heintzelman	620,707	Mar. 7	313	64	86	1562
Locomotive ash-pan	T. W. Heintzelman	634,728	Oct. 10	1406	332	89	297
Locomotive-axle lubricator and wiper	J. S. Patten	638,985	Dec. 12	1477	339	89	2175
Locomotive-boiler	D. Drummond	629,893	Aug. 1	269	60	88	772
Locomotive-boiler	C. Vanderhilt, Jr	637,186	Nov. 14	1855	399	89	1315
Locomotive-boiler cleaning device	T. J. Rossell	628,551	July 11	1133	264	88	258
Locomotive-boiler draft appliance	W. B. Warren	625,225	May 16	2308	525	87	1186
Locomotive-cab platform	J. F. Dunn	631,739	Aug. 22	3732	837, 838	88	1508
Locomotive-cab seat	J. P. Nicholls	627,940	June 27	3210	703	87	2300
Locomotive-cabs, &c. Window for	S. Harmon	632,264	Sept. 5	102	22	88	1727
Locomotive. Compound	S. H. Dunning	617,238	Jan. 3	715	166	86	140
Locomotive. Compound	J. Player	623,735	Apr. 25	2806	641, 642	87	594
Locomotive. Compound	J. Player	623,736	Apr. 25	2808	642, 643	87	595
Locomotive draft-indicator	J. E. Rankine	632,203	Aug. 29	4596	1036	88	1687
Locomotive driving-wheel	I. N. Wissinger	628,733	July 11	1485	344	88	310
Locomotive-engine	H. H. Huff	631,990	Aug. 29	4182	940, 941	88	1605
Locomotive-engine	C. J. Mellin	630,619	Aug. 8	1712	384	88	1069
Locomotive-engine	J. E. Roberts	626,566	June 6	626	144, 145	87	1736
Locomotive-engine exhaust-relief	C. J. Mellin	635,696	Oct. 24	3203	738	89	680
Locomotive exhaust-nozzle	D. Sweney	625,712	May 23	3172	720	87	1379
Locomotive exhaust-pipe	W. A. Buckbee	633,566	Sept. 26	2579	604	88	2255
Locomotive hinged coupling	M. L. Flynn and J. A. Sherman	638,231	Dec. 5	42	11	89	1875
Locomotive life-saving guard	J. H. Robinson	621,143	Mar. 14	1147	249	86	1736
Locomotive. Mine-	D. L. Barnes and W. P. Henszey	633,064	Sept. 12	1588	369, 370	88	2035
Locomotive-protector	A. B. Prophitt	625,603	May 23	2982	677	87	1341
Locomotive sand-distributer	R. Diem	633,083	Sept. 12	1620	377	88	2042
Locomotive-tanks. Supply-pipe for	W. W. Rogers and F. W. Robertson	633,277	Sept. 19	2036	478	88	2134
Locomotive-tender	G. M. Bishop	619,535	Feb. 14	1348	310	86	1093
Locomotive-tender coupling	S. J. Meeker	622,775	Apr. 11	1063	246, 247	87	221
Locomotive. Two-cylinder compound	G. R. Henderson	631,164	Aug. 15	2678	605	88	1282
Locomotive water-purifier	N. L. Hayden and A. Wildman	619,303	Feb. 14	962	218	86	1017
Locomotive with coupled hogie	C. Hagans	638,113	Nov. 28	3979	837, 838	89	1810
Locomotive-window	W. H. Clowry	632,241	Sept. 5	22	6	88	1713
Locomotives. Bell-ringer for	E. M. Crandall	629,662	July 25	3173	740	88	673
Locomotives, &c. Lookout-glass for	H. Johnson	625,398	May 23	2629	597, 598	87	1273
Locomotor for use in pipes or conduits	E. L. Benjamin	621,018	Mar. 14	912	198	86	1690
Log-canter	E. E. Fitzgerald	623,002	Apr. 11	1469	339, 340	87	299
Log-hinder	R. Fantroy	632,704	Sept. 12	950	220	88	1909
Log-hoom	G. H. Howze	633,515	Sept. 19	2465	580	88	2217
Log-hook	J. D. Vaughan	626,946	June 13	1370	301	87	1897
Log-lifter	H. W. Scott	626,102	May 30	3994	910	87	1549
Log-loading apparatus	H. B. Phillips	630,105	Aug. 1	715	154	88	865
Log-recorder. Electric	L. T. Jones, Jr	637,992	Nov. 28	3733	785	89	1764
Log-thawing apparatus	S. W. Butterfield	626,138	May 30	4072	929	87	1565
Log turner and loader	T. S. Wilkin	617,844	Jan. 17	1885	420	86	406
Log turner and loader	T. S. Wilkin	617,845	Jan. 17	1887	421	86	407
Log turner and loader	T. S. Wilkin	617,846	Jan. 17	1888	421	86	407
Logwood extracts. Treating	F. E. Bucher	637,707	Nov. 21	3206	------	89	1638
Loom	F. E. Arrouquier	618,820	Feb. 7	3	1	86	803
Loom	W. H. Baker and F. E. Kip	633,944	Sept. 26	3233	754	88	2384
Loom	W. H. Baker and F. E. Kip	633,945	Sept. 26	3237	754, 755	88	2383
Loom	W. H. Baker and F. E. Kip	636,704	Nov. 7	857	190, 191	89	1096
Loom	W. H. Baker and F. E. Kip	636,705	Nov. 7	862	192	89	1098
Loom	W. H. Baker and F. E. Kip	636,706	Nov. 7	865	192, 193	89	1098
Loom	W. H. Baker and F. E. Kip	637,195	Nov. 14	1876	404	89	1320
Loom	W. H. Baker and F. E. Kip	637,695	Nov. 21	3187	660, 661	89	1634
Loom	W. H. Baker and F. E. Kip	637,753	Nov. 21	3287	686, 687	89	1655
Loom	A. W. Beardsell	629,311	July 18	2522	587	88	525
Loom	T. Brindle and M. O. Steere	634,681	Oct. 10	1309	308	89	278
Loom	M. G. Chace	633,976	Sept. 26	3308	770, 771	88	2398
Loom	J. A. Clark and J. T. Cyr	636,635	Nov. 7	728	159, 160	89	1068
Loom	E. Claviez	619,248	Feb. 7	850	186	86	979
Loom	R. Crompton	630,289	Aug. 1	1025	226	88	925
Loom	R. Crompton and H. Wyman. (Reissue.)	11,762	Aug. 1	1075	235, 236	88	934
Loom	C. M. Day	618,789	Jan. 31	3644	814	86	772
Loom	W. G. Eaton	623,951	Apr. 25	3243	747	87	679
Loom	W. G. Eaton	624,197	May 2	459	97	87	788
Loom	W. G. Eaton	639,158	Dec. 12	1766	408	89	2231
Loom	W. C. Edler and F. Windle	636,773	Nov. 14	1047	224	89	1160
Loom	A. Gartner	626,898	June 13	1293	284	87	1882
Loom	H. I. Harriman	626,834	June 13	1136	253, 254, 255	87	1851

Alphabetical list of inventions—Continued.

Invention.	Name.	No.	Date.	Monthly volume. Spec.	Monthly volume. Drg.	Official Gazette. Vol.	Official Gazette. Page.
Loom	H. I. Harriman	636,228	Oct. 31	4265	979, 980	89	902
Loom	H. I. Harriman	637,113	Nov. 14	1704	367, 368, 369	89	1288
Loom	H. I. Harriman	639,975	Dec. 26	3304	757, 758, 759	89	2571
Loom	E. Herzig	623,604	Apr. 25	2595	593	87	555
Loom	W. P. Kirkpatrick	622,810	Apr. 11	1126	261	87	233
Loom	C. A. Littlefield	618,362	Jan. 24	2860	635	86	606
Loom	W. J. Lutton	628,206	July 4	463	111	88	92
Loom	E. P. Mason	628,226	July 4	497	121	88	99
Loom	W. McMichael	638,935	Dec. 12	1388	317	89	2157
Loom	J. T. Meats	623,092	Apr. 11	1628	375	87	332
Loom	T. Mooney and C. Renaud	621,691	Mar. 21	2134	475	86	1941
Loom	A. Morell	626,499	June 6	525	121	87	1715
Loom	J. Northrop	628,228	July 4	502	121	88	100
Loom	J. H. Northrop	624,371	May 2	768	172, 173	87	848
Loom	J. H. Northrop	626,187	May 30	4160	947	87	1583
Loom	J. H. Northrop	626,188	May 30	4165	947, 948	87	1584
Loom	J. H. Northrop	628,893	July 11	1764	412	88	364
Loom	A. Pivetz	619,611	Feb. 14	1474	337, 338	86	1116
Loom	G. Poole	637,486	Nov. 21	2422	525, 526	89	1444
Loom	E. Renz	621,138	Mar. 14	1139	247	86	1734
Loom	H. R. Ross	631,407	Aug. 22	3116	706, 707	88	1387
Loom	O. W. Schaum	638,523	Dec. 5	640	132	89	1988
Loom	J. H. Smallwood	631,593	Aug. 22	3475	785, 786	88	1460
Loom	W. S. Thomas	617,311	Jan. 3	846	198, 199	86	167
Loom	P. E. Victory	632,975	Sept. 12	1442	334	88	2006
Loom	W. Wattie	620,861	Mar. 7	604	131, 132	86	1621
Loom	F. Wever and C. Seel	626,314	June 6	173	42	87	1646
Loom	R. Wilms	631,516	Aug. 22	3327	756	88	1430
Loom	H. Wyman	623,114	Apr. 11	1696	391, 392	87	343
Loom alarm attachment. Power-	C. Kramer	622,498	Apr. 4	557	130	87	105
Loom and filling-carrier therefor	J. H. Northrop	638,200	Nov. 28	4150	876	89	1846
Loom attachment	J. Begins	628,914	July 18	1822	423	88	392
Loom batten. Weaving-	J. Poyser	635,805	Oct. 31	3427	790, 791	89	736
Loom-battens. Means for securing shuttle-blocks to	O. W. Schaum	617,191	Jan. 3	629	147	86	123
Loom-binder	H. Talks	631,237	Aug. 15	2789	632	88	1305
Loom. Box-	H. Talks	626,510	June 6	540	124	87	1718
Loom box-controlling mechanism	C. A. Taft and H. A. Owen	638,944	Dec. 12	1400	320	89	2159
Loom. Circular	J. and C. Herold	628,093	July 4	253	59, 60	88	51
Loom. Circular	J. and C. Herold	629,251	July 18	2412	558, 559	88	504
Loom. Circular	C. Herold and R. Richards	636,800	Nov. 14	1095	234, 235	89	1170
Loom-dobbies. Indicating device for	G. W. Stafford	619,909	Feb. 21	2056	466	86	1254
Loom-dobby	G. W. Stafford	634,632	Oct. 10	1221	290	89	260
Loom electrical warp stop-motion	W. H. Baker and F. E. Kip	621,594	Mar. 21	1946	435	86	1902
Loom electrical warp stop-motion	F. E. Kip	621,575	Mar. 21	1915	428	86	1897
Loom filling-carrier	C. M. Day	635,716	Oct. 24	3238	746	89	687
Loom filling-supplying mechanism	A. W. Clement	627,803	June 27	2960	647	87	2248
Loom filling-supplying mechanism	A. D. Emery	635,759	Oct. 31	3340	772, 773	89	719
Loom for weaving chenille fabrics	H. Hardwick	625,841	May 30	3488	780	87	1448
Loom for weaving chenille fabrics	H. Hardwick	625,928	May 30	3602	818	87	1479
Loom for weaving double-pile fabrics	J. Killars	636,533	Nov. 7	537	118	89	1029
Loom for weaving moquette carpets	T. M. Southwell and T. W. Head	621,720	Mar. 21	2182	490, 491	86	1951
Loom for weaving tufted fabrics	T. W. Head	619,956	Feb. 21	2134	483, 484	86	1269
Loom for weaving tufted fabrics	T. M. Southwell and T. W. Head	631,233	Aug. 15	2782	630, 631	88	1304
Loom. Haircloth-	C. E. Pervear, W. W. Harrison, and J. Holt.	628,231	July 4	506	122, 123	88	101
Loom harness-evening mechanism	W. W. Uhlinger	629,220	July 18	2359	547, 548	88	495
Loom-heddle	J. Cocker	632,834	Sept. 12	1194	272	88	1960
Loom jacquard mechanism	F. Fowler	625,297	May 16	2452	557, 558	87	1212
Loom jacquard mechanism	G. Pavia	622,257	Apr. 4	97	22	87	22
Loom knife-sled motion	J. Killars	636,263	Nov. 7	68	15, 16	89	936
Loom. Lappet-	G. Kinsbourg	637,129	Nov. 14	1750	375	89	1297
Loom-lay	G. A. Draper	621,750	Mar. 21	2252	508	86	1963
Loom-lay	G. A. Draper and C. F. Roper	621,751	Mar. 21	2253	508	86	1964
Loom let-off	J. M. Peckham	621,277	Mar. 14	1382	306	86	1782
Loom let-off and take-up	A. J. Hanks	626,161	May 30	4117	938	87	1574
Loom let-off and take-up mechanism	J. Poyser	618,291	Jan. 24	2737	606, 607	86	583
Loom let-off mechanism	J. H. Northrop	618,363	Jan. 24	2862	635	86	606
Loom let-off mechanism	C. F. Perham	631,430	Aug. 22	3164	718	88	1397
Loom let-off mechanism	O. W. Schaum	625,206	May 16	2272	517	87	1179
Loom let-off motion. Weaving-	J. Poyser and F. L. Ball	617,045	Jan. 3	367	88, 89	86	70
Loom. Narrow-fabric	O. A. Steere	618,214	Jan. 24	2601	575	86	556

Alphabetical list of inventions—Continued.

Invention.	Name.	No.	Date.	Monthly volume. Spec.	Monthly volume. Drg.	Official Gazette. Vol.	Official Gazette. Page.
Loom. Narrow-fabric	G. A. Steere	639,626	Dec. 19	2646	607, 608	89	2422
Loom. Needle-	C. and G. Brun	639,018	Dec. 12	1538	352	89	2186
Loom pattern-arresting mechanism	G. F. Hutchins	617,290	Jan. 3	813	190	86	160
Loom pick-finding mechanism	C. A. Littlefield	622,650	Apr. 4	848	195	87	161
Loom-picker	F. A. Wardwell	621,725	Mar. 21	2193	494	86	1952
Loom-picker	F. A. Wardwell	625,620	May 23	3019	687	87	1349
Loom picker-stick lug-strap	C. W. Lyon	620,469	Feb. 28	3024	691	86	1452
Loom picker-stick motion	D. B. Syme	638,203	Nov. 28	4156	878	89	1847
Loom picking device	L. Jacques and L. Painchaud	622,485	Apr. 4	538	126	87	102
Loom picking-motion	G. F. Hutchins	621,303	Mar. 14	1424	315	86	1790
Loom. Pile-fabric	G. Poole	635,897	Oct. 31	3621	834	89	774
Loom pile-forming apparatus. Driving mechanism for	R. Barclay, Jr., and A. F. Craig	638,543	Dec. 5	674	141	89	1994
Loom-pitman	Z. Raby and W. T. Spear	638,595	Dec. 5	770	167	89	2013
Loom protector mechanism	M. I. Bigelow	618,374	Jan. 24	2883	639	86	610
Loom-reed	B. Wood	623,196	Apr. 18	1858	425	87	390
Loom. Ribbon-	A. Gartner	636,979	Nov. 14	1443	310	89	1239
Loom shedding mechanism	S. Arienta	628,154	July 4	371	88	88	75
Loom shedding mechanism	R. H. Cook	636,493	Nov. 7	452	100, 101	89	1012
Loom shedding mechanism	J. H. Northrop	618,232	Jan. 24	2636	582	86	563
Loom shedding-motion	R. B. Goodyear	633,131	Sept. 19	1754	413, 414	88	2078
Loom-shuttle	A. Aubé	630,793	Aug. 8	1994	451	88	1125
Loom-shuttle	J. A. Clark	619,720	Feb. 21	1703	390	86	1185
Loom-shuttle	S. M. Hamblin	639,896	Dec. 26	3154	725	89	2539
Loom-shuttle	S. M. Hamblin and W. H. Goldsmith	636,227	Oct. 31	4263	979	89	901
Loom-shuttle	T. Huster	627,423	June 20	2260	499	87	2093
Loom-shuttle	J. L. Kinney	636,207	Oct. 31	4224	972	89	894
Loom-shuttle	E. S. Stimpson	632,209	Aug. 29	4603	1037	88	1688
Loom shuttle-box motion	H. Bardsley	626,960	June 13	1394	307	87	1902
Loom shuttle-changing mechanism	E. Claviez	633,952	Sept. 26	3253	758, 759	88	2388
Loom-shuttle filling-carrier	J. V. and E. Cunniff	628,772	July 11	1555	359	88	323
Loom shuttle-guard	M. T. Melvin	617,590	Jan. 10	1388	315	86	289
Loom shuttle-guard	J. B. Newell	630,263	Aug. 1	976	215	88	915
Loom-shuttle. Self-threading	S. M. Hamblin	630,051	Aug. 1	610	133	88	844
Loom-shuttle. Self-threading	J. H. Northrop	634,830	Oct. 10	1567	368	89	328
Loom-shuttle tension device	C. H. Heindel	627,263	June 20	1931	426	87	2029
Loom-shuttle threader	C. Lamothe	631,045	Aug. 15	2467	559	88	1242
Loom stop-motion mechanism	G. Poole	637,412	Nov. 21	2301	495	89	1421
Loom stop-motion mechanism	G. Poole	637,413	Nov. 21	2302	496	89	1421
Loom stopping, correcting, and restarting mechanism.	A. D. Emery	626,860	June 13	1210	267, 268	87	1866
Loom stopping mechanism	J. H. Northrop	623,174	Apr. 18	1819	417	87	382
Loom. Swivel-	G. F. Hutchins	624,039	May 2	159	35, 36	87	733
Loom take-up mechanism	O. L. Owen	621,538	Mar. 21	1854	412	86	1884
Loom take-up mechanism	O. L. Owen	638,937	Dec. 12	1390	317	89	2157
Loom-temple	J. V. and E. Cunniff and H. J. Kerrigan.	639,153	Dec. 12	1755	405	89	2228
Loom-temple	A. G. Held and E. Poehnert	639,039	Dec. 12	1562	358	89	2191
Loom-temple	W. I. Stimpson	618,368	Jan. 24	2870	637	86	608
Loom-temple	L. Willemain	620,005	Feb. 21	2215	503	86	1283
Loom thread-parter	C. L. Joy	630,236	Aug. 1	935	204	88	907
Loom thread-parter	E. P. Mason	634,852	Oct. 10	1618	379	89	337
Loom warp-controlling means	J. A. Robinson	627,445	June 20	2299	505	87	2101
Loom warp stop mechanism	J. H. Northrop	622,630	Apr. 4	794	185	87	151
Loom warp stop-motion	W. E. Allen	640,154	Dec. 26	3617	832	89	2635
Loom warp stop-motion	W. H. Baker and F. E. Kip	624,155	May 2	401	82	87	776
Loom warp stop-motion	H. Bardsley	619,856	Feb. 21	1966	446, 447	86	1237
Loom warp stop-motion	J. Coldwell and C. G. Gildard	637,234	Nov. 21	1959	418	89	1352
Loom warp stop-motion	G. O. Draper	638,567	Dec. 5	710	151	89	2002
Loom warp stop-motion	W. F. Draper	636,503	Nov. 7	469	105	89	1015
Loom warp stop-motion	J. C. Edwards	625,157	May 16	2198	499	87	1164
Loom warp stop-motion	J. A. Graf	622,462	Apr. 4	481	112	87	89
Loom warp stop-motion	C. A. Littlefield	620,465	Feb. 28	3018	690	86	1450
Loom warp stop-motion	J. and J. H. Northrop	618,364	Jan. 24	2863	636	86	606
Loom warp stop-motion	J. H. Northrop	619,604	Feb. 14	1455	335	86	1112
Loom warp stop-motion	J. H. Northrop	621,310	Mar. 14	1440	318, 319	86	1793
Loom warp stop-motion	J. H. Northrop	623,732	Apr. 25	2799	640	87	593
Loom warp stop-motion	J. H. Northrop	625,191	May 16	2252	512	87	1175
Loom warp stop-motion	J. H. Northrop	630,096	Aug. 1	699	150	88	862
Loom warp stop-motion	J. H. Northrop	638,593	Dec. 5	768	167	89	2013
Loom warp stop-motion	J. H. Northrop	639,182	Dec. 12	1802	417, 418	89	2238
Loom warp stop-motion	J. H. Northrop	640,150	Dec. 26	3610	831	89	2633
Loom warp stop-motion	J. Poyser	625,898	May 30	3545	805	87	1468
Loom warp stop-motion	E. A. Robinson and V. Piron	624,252	May 2	567	121	87	808
Loom warp stop-motion	A. Wilkinson	628,731	July 11	1481	343	88	309
Loom warp stop-motion	H. Wyman	631,240	Aug. 15	2794	634	88	1307
Loom warp stop-motion	H. Wyman	631,242	Aug. 15	2804	635	88	1309
Loom warp stop-motion	H. Wyman	631,243	Aug. 15	2811	635	88	1310
Loom warp stop-motion	H. Wyman	631,244	Aug. 15	2816	636	88	1311
Loom warp stop-motion	H. Wyman and J. A. Clark	631,241	Aug. 15	2799	634	88	1308
Loom warp-stop-motion detector	G. O. Draper	626,412	June 6	368	87	87	1685
Loom warp-stop-motion mechanism	S. Sewall	637,675	Nov. 21	3150	652, 653	89	1627
Loom. Weaving-	G. Patrone	627,440	June 20	2288	504	87	2099
Loom weft-fork mechanism	W. G. Eaton	624,765	May 9	1492	339	87	1013
Loom weft parting or cutting mechanism	H. Wyman	631,245	Aug. 15	2821	636	88	1312
Loom weft-supply mechanism	W. H. Baker and F. E. Kip	636,707	Nov. 7	868	193, 194	89	1099
Loom wefting mechanism	D. J. MacDonald	633,020	Sept. 12	1519	353, 354	88	2021

Alphabetical list of inventions—Continued.

Invention.	Name.	No.	Date.	Monthly volume. Spec.	Monthly volume. Dr'g.	Official Gazette. Vol.	Official Gazette. Page.
Looms. Apparatus for operating change mechanism of	A. Claviez	631,560	Aug. 22	3413	771, 772	88	1447
Looms. Back box-plate for	J. H. Northrop	630,097	Aug. 1	703	151	88	863
Looms. Electrical stop-motion for	J. Coldwell and C. G. Gildard	637,235	Nov. 21	1964	418, 419	89	1353
Looms. Electrical warp stop-motion for	W. H. Baker and F. E. Kip	624,154	May 2	398	81,82	87	776
Looms. Electrical warp stop-motion for	W. H. Baker and F. E. Kip	635,637	Oct. 24	3104	713	89	661
Looms. Filling-end holder for automatic	G. O. Draper	626,201	May 30	4195	953	87	1589
Looms. Glass-beam bracket for ribbon-	W. W. Uhlinger	629,831	Aug. 1	143	33	88	749
Looms. Intermediate-selvage-forming mechanism for	W. J. Lutton	617,859	Jan. 17	1912	428	86	412
Looms. Motor apparatus for	A. B. Herrick and W. M. Brock	629,504	July 25	2907	677	88	623
Looms. Movable pile-guide for plush-	A. Claviez	631,561	Aug. 22	3416	772	88	1447
Looping-in switch	J. Shork	621,860	Mar. 28	2455	548	86	2018
Lotion	C. E. Grapewine	624,925	May 16	1790	------	87	1088
Lubricant	F. T. Cook	635,303	Oct. 24	2451	------	89	533
Lubricant	J. H. Peacock	632,363	Sept. 5	275	------	88	1761
Lubricant	L. N. W. Smith	627,278	June 20	1954	------	87	2033
Lubricating apparatus	L. Kaczander	626,166	May 30	4129	941	87	1576
Lubricating cranks	P. Diehl	634,204	Oct. 3	413	105	89	86
Lubricating device	A. H. Gilman	630,048	Aug. 1	606	132	88	843
Lubricating device	S. O. Jones	629,369	July 25	2638	612	88	569
Lubricating device	W. P. Phillips	629,091	July 18	2141	498	88	455
Lubricating device for piston or valve rods, &c	R. Little	636,410	Nov. 7	304	69	89	982
Lubricating-plug	J.C. McAlexander and B.H. Thomas	628,019	July 4	111	23	88	23
Lubricator: *See* Automatic lubricator. Axle-lubricator. Boiler-lubricator. Journal-lubricator. Journal-box lubricator. Lock-lubricator. Locomotive-axle lubricator. Piston-lubricator. Self-acting lubricator. Vessel-lubricator.							
Lubricator	E. D. Bangs	640,079	Dec. 26	3488	800	89	2608
Lubricator	W. H. Bigelow	617,554	Jan. 10	1320	297	86	276
Lubricator	T. J. Buckley	631,275	Aug. 22	2881	651, 652	88	1341
Lubricator	G. B. Essex	629,895	Aug. 1	270	61	88	773
Lubricator	A. A. Freeman and O. Armstrong	639,967	Dec. 26	3291	753	89	2568
Lubricator	H. Froböse	617,898	Jan. 17	2000	446	86	429
Lubricator	L. Kaczander	637,001	Nov. 14	1495	322	89	1249
Lubricator	L. Kaczander and R. Ruddy	619,962	Feb. 21	2144	486	86	1270
Lubricator	L. Kaczander, J. Desmond, and R. Ruddy.	636,532	Nov. 7	535	117	89	1029
Lubricator	A. Koschade	618,470	Jan. 31	3079	682	86	662
Lubricator	J. F. Lewis	629,083	July 18	2123	494, 495	88	452
Lubricator	F. W. Marvin	630,065	Aug. 1	649	140	88	851
Lubricator	E. McCoy	627,623	June 27	2645	581	87	2186
Lubricator	J. A. McLaughlin	638,061	Nov. 28	3863	812	89	1789
Lubricator	G. N. McMillan	627,624	June 27	2648	581	87	2187
Lubricator	G. U. Merrill	629,583	July 25	3043	710	88	648
Lubricator	C. J. Miller	625,847	May 30	3448	782	87	1450
Lubricator	G. J. Miller	626,498	June 6	524	121	87	1715
Lubricator	W. P. Phillips	629,465	July 25	2808	652	88	603
Lubricator	W. S. Pierce	628,675	July 11	1387	324	88	288
Lubricator	G. H. W. Runge	636,185	Oct. 31	4184	961	89	886
Lubricator choke-valve feed	W. G. Weldon and E. L. Egger	628,880	July 11	1746	408	88	360
Lubricators. Automatic choke-feed device for	J. Casey	624,624	May 9	1243	279	87	964
Luggage-carrier	J. W. Butts	634,611	Oct. 10	1189	282	89	253
Luggage-carrier	J. Carter	633,281	Sept. 19	2042	479, 480	88	2135
Luggage-carrier	W. J. Eifler	627,225	June 20	1858	407	87	2013
Luggage-carrier for pack-animals	J. Calvert	618,329	Jan. 24	2802	621	86	595
Luggage-carrier or package-holder	S. E. Smith	622,722	Apr. 11	974	226, 227	87	204
Lumber. Apparatus for making artificial	O. L. Gardner	631,743	Aug. 22	3741	840	88	1509
Lumber-bracket	C. E. Strifler	624,571	May 9	1158	259	87	947
Lumber. Compound	S. E. Saunders	619,998	Feb. 21	2202	501	86	1281
Lumber-drier	C. C. Barbour	638,831	Dec. 12	1204	271	89	2121
Lumber-drier	A. S. Nichols	631,764	Aug. 22	3791	844	88	1516
Lumber-drier	G. X. Wendling and O. W. Crawford	637,307	Nov. 21	2101	452	89	1380
Lumber-drying truck	G. X. Wendling and O. W. Crawford	637,308	Nov. 21	2102	452, 453	89	1380
Lumber. Manufacture and product of artificial	O. L. Gardner	631,742	Aug. 22	3735	839, 840	88	1509
Lumber-piling platform	R. E. Gailey and J. F. Bohlander	621,404	Mar. 21	1598	354	86	1836
Lumber-raft	J. Poulsen	619,502	Feb. 14	1298	298	86	1083
Lumber-stacker	T. A. Coleman	625,490	May 23	2793	635, 636, 637	87	1305
Lumber-stacking truck	G. W. Soulé	619,237	Feb. 7	828	182	86	975
Luminous spirits. Producing	H. Hempel	621,411	Mar. 21	1610	------	86	1839
Lunch-box	R. Raby	634,186	Oct. 3	373	95, 96	89	77
Lunch-box. Folding	R. Raby	626,563	June 6	622	143, 144	87	1735
Lunch or other box. Folding	J. J. and E. F. White	625,227	May 16	2311	526	87	1186
Lung-tester	J. Beal and F. C. Brown	626,659	June 6	794	181	87	1768
Lung-tester. Coin-controlled	B. S. Steinfeld	635,607	Oct. 24	3047	700	89	648
Lung-testing machine	W. E. Sanders	631,334	Aug. 22	2990	678	88	1363
Lustering-machine	D. Welsh	624,884	May 9	1718	389	87	1057
Machine elements	J. S. Oram	637,017	Nov. 14	1525	328	89	1255
Machine-knife	J. Oldham	623,031	Apr. 11	1525	353	87	311
Machine-tools. Mechanism for operating tables of	E. O. Preissler	639,863	Dec. 26	3096	712	89	2528
Machinery. Electrical slow-starting device for	I. Stone	628,190	July 4	433	103	88	87
Machinist's tool	J. Beach	630,316	Aug. 8	1093	239	88	952
Magazine. Loading-	G. B. Sparrow	619,848	Feb. 21	1950	442	86	1235

Alphabetical list of inventions—Continued.

Invention.	Name.	No.	Date.	Monthly volume. Spec.	Monthly volume. Dr'g.	Official Gazette. Vol.	Official Gazette. Page.
Magazine plate-holder	E. R. Bullard and C. C. Smith	619,860	Feb. 21	1973	448, 449	86	1238
Magnet. Polyphase alternating-current	W. M. Scott	639,447	Dec. 19	2332	539	89	2357
Magnetic actuator	D. Bacon	638,901	Dec. 12	1327	301	89	2145
Magnetic circuits. Method of and means for inducing magnetism in	C. Steinmetz	630,418	Aug. 8	1336	299, 300	88	997
Magnetic coils. Adjustable vibrator for	C. A. Keller	624,824	May 9	1615	367	87	1037
Magnetic separator	A. Dings	628,978	July 4	218	50	88	44
Magneto-electric generator	J. A. Williams	632,667	Sept. 5	847	198	88	1876
Magneto-electric machine	E. B. Cutten	635,276	Oct. 17	2398	558	89	506
Magnifying-glass frame	G. W. Bennum	623,975	May 2	39	8	87	709
Mail-bag	G. R. Howard	619,022	Feb. 7	430	90	86	893
Mail-bag	E. C. Jordan	639,581	Dec. 19	2570	590	89	2406
Mail-bag	J. B. May	632,842	Sept. 12	1208	276	88	1963
Mail-bag	R. B. Miller	627,434	June 20	2280	503	87	2098
Mail-bag	L. Sanders	632,151	Aug. 29	4491	1011	88	1668
Mail-bag catcher	T. O. P. and W. G. Bailey	624,444	May 9	912	205	87	900
Mail-bag catcher	J. Garbers	634,131	Oct. 3	280	68	89	59
Mail-bag catcher	I. F. J. McKinster	625,790	May 30	3333	757	87	1428
Mail-bag catcher and deliverer	S. E. Bresland	625,016	May 16	1942	436	87	1118
Mail-bag catcher and deliverer	E. Walter	638,487	Dec. 5	577	119	89	1977
Mail-bag catching and delivering mechanism	J. Q. Baker	621,202	Mar. 14	1238	273, 274	86	1755
Mail-bag deliverer and receiver	H. A. Orchard	637,651	Nov. 21	3099	641, 642	89	1617
Mail-bag-delivering apparatus for cars	G. W. Smith	631,410	Aug. 22	3120	708	88	1388
Mail-bag fastener	F. L. Carlton and D. H. Conners	633,546	Sept. 19	2522	592, 593	88	2227
Mail-bag fastener	P. L. Schmitt	631,532	Aug. 22	3350	762	88	1435
Mail-bag-fastening device	R. W. Branson	633,751	Sept. 26	2925	680	88	2321
Mail bag or pouch	D. R. Hering	630,694	Aug. 8	1835	414	88	1092
Mail-bag receiving and delivering apparatus	H. J. Brown	627,294	June 20	1984	437	87	2039
Mail-bag receiving and delivering apparatus	J. T. Mumford and J. M. Pinkerton	638,351	Dec. 5	308	64, 65	89	1925
Mail-bag receiving and delivering apparatus	J. T. Mumford and J. M. Pinkerton	638,352	Dec. 5	312	65, 66	89	1926
Mail-box	S. A., P. M., and F. J. Bragunier	624,289	May 2	634	139	87	820
Mail-box	B. F. and A. C. Brockmeyer	638,622	Dec. 5	822	177	89	2023
Mail-box	D. C. Kline	635,965	Oct. 31	3733	863	89	794
Mail-box	J. A. Tilly	632,796	Sept. 12	1123	258, 259	88	1945
Mail-box	S. H. Yoder	632,390	Sept. 5	329	74	88	1772
Mail-box. Collection and delivery	W. H. Kessler	632,815	Sept. 12	1162	266	88	1953
Mail-box collection-indicator attachment	B. L. Rees	637,416	Nov. 21	2306	497	89	1422
Mail-box indicator	W. C. and L. Lemkuhl	638,584	Dec. 5	747	160	89	2009
Mail-box time-indicator	E. M. Hoagland and D. S. Richardson.	636,993	Nov. 14	1479	319	89	1246
Mail-cart	G. W. W. Sweeney	633,495	Sept. 19	2433	573	88	2211
Mail catcher and deliverer	B. Chamberlain	632,101	Aug. 29	4393	987	88	1647
Mail-catcher hook	H. N. Fleming	622,341	Apr. 4	250	58	87	47
Mail-collection sack	B. F. and A. C. Brockmeyer	638,623	Dec. 5	824	177	89	2024
Mail-collector's recorder	J. D. Miller	633,024	Sept. 12	1523	354	88	2022
Mail-crane	F. M. Edwards	634,405	Oct. 3	822	199	89	164
Mail-distributing boxes. Partition for	H. F. Myers and B. H. Rinehart	628,892	July 11	1763	412	88	364
Mail-marking device	H. E. Waite	634,418	Oct. 3	843	203, 204	89	168
Mail-marking machine	G. H. Barber and C. J. Hackley	627,677	June 27	2736	599, 600	87	2203
Mail-marking machine	C. P. Oudin	618,720	Jan. 31	3533	789, 790	86	750
Mail-pouch	M. Hill	618,877	Feb. 7	110	23	86	826
Mail-pouch	J. W. Love	633,869	Sept. 26	3121	724	88	2361
Mail-pouch	T. H. Stokes	634,773	Oct. 10	1471	346	89	309
Mail-pouch closure	W. A. Piatt	629,599	July 25	3071	716	88	653
Mail-pouch fastener	W. E. Griffin	630,504	Aug. 8	1498	335	88	1028
Mail-pouch fastener	E. Moody	632,273	Sept. 5	133	28	88	1734
Mail-pouch lock	J. E. Tingle	632,598	Sept. 5	704	163	88	1846
Mail pouch or bag	C. L. V. Mundhenk and W. I. Christian.	618,119	Jan. 24	2413	538	86	522
Mail receiving and delivering apparatus	A. L. Henry	635,854	Oct. 31	3529	811	89	756
Mail receiving and delivering apparatus. Railway	H. F. Sharrer	632,504	Sept. 5	530	122	88	1812
Mail-sack-delivering mechanism	M. D. Cummings	618,397	Jan. 31	2958	654, 655	86	640
Mailer	J. A. Horton and C. Wing	624,806	May 9	1574	358	87	1029
Mallet	C. Prouty	637,158	Nov. 14	1799	386	89	1306
Malt-drying apparatus	W. H. Prinz. (Reissue)	11,728	Mar. 28	3121	702	86	2154
Malt-drying apparatus	W. H. Prinz	626,929	June 13	1343	295, 296	87	1892
Malt-house	W. H. Prinz	624,245	May 2	557	118, 119	87	805
Malt or grain. Machine for cooling, scouring, and cleaning	R. J. Behringer	618,389	Jan. 31	2940	650, 651	86	637
Malt-turner	F. Herster	625,505	May 23	2817	642	87	1309
Malt turning and stirring mechanism	J. F. Dornfeld	636,959	Nov. 14	1402	299, 300	89	1230
Malted food products and making same	W. Horlick	627,119	June 20	1680	------	87	1978
Malting apparatus	J. Declercq	625,651	May 23	3068	699	87	1359
Malting apparatus	C. Schwager	625,809	May 30	3380	767	87	1437
Malting corn, barley, &c. Apparatus for	H. C. Hoefinghoff	619,746	Feb. 21	1750	400	86	1194
Man-head	E. C. Darley	637,855	Nov. 28	3473	726	89	1712
Mandolin	F. Isbell	617,250	Jan. 3	732	170	86	143
Mandolin	R. B. Simpson	627,067	June 13	1580	346	87	1938
Mandolin	R. B. Simpson. (Reissue)	11,752	June 20	2334	514	87	2107
Mandolins. Pick-holding device for	T. H. Smith	631,729	Aug. 22	3720	835	88	1506
Mandrel for tube-making machines	E. C. Truyter	634,191	Oct. 3	381	97	89	79
Mandrel-holder	F. T. Reid	627,444	June 20	2297	505	87	2100
Manger. Feed	C. H. Hain	629,106	July 18	2167	503	88	460
Mangle	A. Conkling	624,180	May 2	433	89	87	783

Alphabetical list of inventions—Continued.

Invention.	Name.	No.	Date.	Monthly volume.		Official Gazette.	
				Spec.	Dr'g.	Vol.	Page.
Mangle	C. H. Ericson	622,338	Apr. 4	246	56,57	87	47
Mangle	W. O'Connor	634,584	Oct. 10	1147	272	89	245
Manhole-cover	T. P. Greger	636,722	Nov. 7	903	200	89	1107
Manhole for electric conduits	J. Banwell	638,692	Dec. 12	971	216	89	2075
Manhole frame and cover	T. P. Greger	636,201	Oct. 31	4210	968	89	892
Manhole frame and cover	T. P. Greger	638,574	Dec. 5	723	154	89	2005
Manhole junction-box	J. W. Turner	634,381	Oct. 3	780	186, 187	89	155
Manifold-pad	H. Whitfield	626,259	June 6	70	17	87	1628
Manifolding-pad and holder	W. F. Beck	627,318	June 20	2039	448	87	2051
Manifolding sales-pad paper-roll	C. M. Dissosway	632,487	Sept. 5	505	115	88	1807
Manifolding-sheet	J. O. Foster	627,229	June 20	1865	409	87	2014
Manometer. Self-recording	E. S. Cole	625,541	May 23	2880	655	87	1322
Mantel. Sheet-metal	J. Graves	625,104	May 16	2117	481	87	1149
Mantle-burner regulating attachment	F. Barnhart	632,088	Aug. 29	4365	982	88	1642
Mantle for incandescent lighting	S. Goldner	634,815	Oct. 10	1541	362	89	322
Mantle-holder	A. Kitson	632,497	Sept. 5	522	119	88	1810
Mantle-support	W. L. Russell	637,163	Nov. 14	1806	387	89	1307
Mantle-support	L. Stiassny	636,579	Nov. 7	619	136	89	1047
Mantle-support	W. Stiassny	636,580	Nov. 7	621	137	89	1048
Manual-power press	A. Dewes and A. Shedlock	617,147	Jan. 3	558	132	86	109
Manufacturing or other furnace	P. Boimare	620,097	Feb. 28	2384	540	86	1331
Manure-carrier	T. G. and E. Hodgins	637,116	Nov. 14	1717	370	89	1290
Manure-distributer	J. M. Kramer, F. Heckman, and H. Synck, Jr.	622,957	Apr. 11	1393	321	87	284
Manure-distributer	T. C. Sargeant	637,351	Nov. 21	2191	472	89	1398
Manure-loader. Automatic	W. Bell	628,741	July 11	1498	347	88	313
Manure-spreader	J. S. Kemp	632,124	Aug. 29	4442	998, 999	88	1658
Manuscript. Device for producing duplicate	S. D. Hearing	627,414	June 20	2246	495	87	2090
Map holder. Road-	J. S. Kelso, Jr., and P. L. Wilbur	625,844	May 30	3442	781	87	1449
Marble, granite, &c. Die for cutting	A. Travaglini	624,581	May 9	1172	263	87	950
Marble. Manufacture of artificial	J. E. Summers	635,005	Oct. 17	1882	------	89	407
Marble or stone. Artificial	J. E. Summers	639,914	Dec. 26	3190	------	89	2548
Marine engine	A. H. Lighthall	624,348	May 2	735	164	87	841
Marine engine	A. H. Lighthall	624,351	May 2	742	166, 167	87	842
Marker. Ground-	F. H. Esper	638,451	Dec. 5	508	103	89	1964
Marker. Sod-line	G. O. Walkup	630,142	Aug. 1	777	167	88	876
Marker. Stock-	J. H. Harvey	630,349	Aug. 8	1174	258	88	970
Marking apparatus	G. W. Hey	632,527	Sept. 5	580	134, 135	88	1822
Marking cattle. Apparatus for	W. Hellbardt and O. Gerhardt	624,026	May 2	138	31	87	729
Marking, covering, and furrowing machine	W. D. Haines	618,413	Jan. 31	2993	663	86	646
Marking device	J. Romeyer and A. Josserand	620,503	Feb. 28	3076	703	86	1462
Marking-pot	A. J. Bradley	621,400	Mar. 21	1592	352	86	1835
Marking sheep, &c. Apparatus for	G. Renner and W. H. Boyens	635,060	Oct. 17	1985	469	89	428
Marquetry	C. A. Lammers	625,511	May 23	2828	644	87	1311
Mashing apparatus	O. Selg	628,232	July 4	508	123	88	101
Mask	T. A. Walton	626,799	June 13	1068	240	87	1839
Mask. Base-ball	B. T. Rogers	628,724	July 11	1465	340	88	305
Massage apparatus	J. Semerak	634,590	Oct. 10	1156	275	89	247
Massage device	E. Muschik	636,163	Oct. 31	4142	949	89	877
Massage instrument. Electric	L. Casper	637,321	Nov. 21	2124	457	89	1385
Massage-machine	W. W. M. Hickey	625,976	May 30	3694	840	87	1497
Massage or flesh-kneading device	B. B. Hans	622,350	Apr. 4	261	60	87	50
Masticator	H. W. Godfrey	617,735	Jan. 17	1661	374	86	363
Mat: *See* Door-mat. Felt mat. Douche-mat. Floor-mat.							
Mat	A. S. Allen	617,625	Jan. 10	1452	331	86	302
Mat	C. H. Mock and J. C. Mahaney	632,533	Sept. 5	598	137	88	1826
Mat-holding clip	G. G. Atkins	637,222	Nov. 21	1935	414	89	1347
Mat or matting	A. Travaglini	621,548	Mar. 21	1878	416	86	1889
Match	E. G. Bohy	622,109	Mar. 28	2920	------	86	2108
Match	H. L. Buxton	623,233	Apr. 18	1919	441	87	408
Match-box-filling machine	A. Paulson	638,136	Nov. 28	4029	849, 850	89	1821
Match-box holder	B. I. Gilman	637,455	Nov. 21	2371	513	89	1434
Match-box machine	F. A. Marshall	635,142	Oct. 17	2168	506	89	463
Match-box. Pocket	E. H. Eastwood	617,525	Jan. 10	1260	287	86	265
Match-boxes having sliding covers. Contrivance for holding	A. Aumont	623,864	Apr. 25	3080	710	87	648
Match-case and cigar-tip cutter. Automatic	R. C. Hoyer	635,484	Oct. 24	2835	647	89	608
Match composition	W. G. Cordes	627,393	June 20	2203	------	87	2082
Match-dipping machine	E. J. Young	623,757	Apr. 25	2837	650	87	600
Match-frame-locking device	W. W. Thompson	625,522	May 23	2846	648	87	1315
Match-gathering machine	F. F. Sommers	637,041	Nov. 14	1560	336, 337	89	1262
Match-machine	A. Anderson	637,064	Nov. 14	1608	347, 348	89	1271
Match-machine	E. H. and W. G. Bronson	617,634	Jan. 10	1466	335	86	305
Match-machine	W. E. Cook	620,539	Feb. 28	3160	724, 725	86	1478
Match-machine	W. E. Cook	620,743	Mar. 7	284	78, 79, 80	86	1576
Match-machine	W. E. Cook	626,457	June 6	445	105	87	1700
Match-machine	W. E. Cook	626,458	June 6	446	105	87	1700
Match-machine	W. A. Downs	622,998	Apr. 11	1461	337, 338	87	298
Match-machine	L. P. Hawkins	632,900	Sept. 12	1323	304	88	1982
Match-machine	L. P. Hawkins	632,901	Sept. 12	1325	304, 305	88	1983
Match-machine	W. L. Nye	623,217	Apr. 18	1892	434, 435	87	396

Alphabetical list of inventions—Continued.

Invention.	Name.	No.	Date.	Monthly volume. Spec.	Monthly volume. Dr'g.	Official Gazette. Vol.	Official Gazette. Page.
Match-machine	W. H. Wussow	621,886	Mar. 28	2512	561, 562, 563, 564, 565, 566, 567	86	2029
Match making and boxing machine	C. Carr	639,357	Dec. 19	2163	496, 497, 498, 499, 500, 501	89	2326
Match making and boxing machine	C. Carr	639,359	Dec. 19	2175	502, 503, 504	89	2328
Match-making machine	I. Hogeland	626,164	May 30	4125	940	87	1575
Match-making machine	C. H. Palmer and J. W. Denmead	636,170	Oct. 31	4151	952, 953	89	879
Match-paste composition	G. Hackel	625,299	May 16	2454	------	87	1213
Match-safe	J. Berman	636,946	Nov. 14	1384	295	89	1226
Match-safe	J. Bond	629,649	July 25	3157	736	88	670
Match-safe	H. Flanders	625,442	May 23	2714	617	87	1288
Match-safe	J. C. Gilbert	633,830	Sept. 26	3049	708	88	2347
Match-safe	D. Knowlton (Reissue)	11,749	June 13	1613	352	87	1945
Match-safe	J. Lindgren	624,354	May 2	749	168	87	843
Match-safe	J. H. Miller	636,413	Nov. 7	308	70	89	983
Match-safe	R. C. L. Stueve	638,998	Dec. 12	1512	346	89	2180
Match-safe and burned-match receiver. Combined	J. A. Collins	637,236	Nov. 21	1966	419	89	1353
Match-safe and cigar-cutter	G. H. Earnest	623,206	Apr. 18	1874	429, 430	87	393
Match-safe and cigar-cutter. Combined	H. Smith	627,711	June 27	2798	612	87	2215
Matches from pasteboard. Making	M. Bals	632,087	Aug. 29	4364	981	88	1641
Matches. Manufacture of paper friction-	J. Dela Mar	632,781	Sept. 12	1090	252, 253	88	1938
Matcher-head	C. R. Harvin	633,452	Sept. 19	2367	557	88	2198
Matcher-head	W. W. Philbrick	629,813	Aug. 1	93	23	88	738
Matcher-head	W. W. Philbrick	629,814	Aug. 1	97	24	88	739
Matcher-head	W. W. Philbrick	633,153	Sept. 19	1797	423, 424	88	2086
Matcher-head	W. W. Philbrick	633,154	Sept. 19	1802	424	88	2087
Material-elevator	H. Cull	623,990	May 2	65	14	87	714
Material. Manufacture of artificial	E. Kingscote	632,723	Sept. 12	991	------	88	1917
Mathematical instrument	T. Clarkson	633,307	Sept. 19	2082	488, 489	88	2143
Matrix-bars. Machine for locating and stamping	E. Van der Wee	627,160	June 20	1747	383	87	1991
Matrix-making machine	E. V. Beals and W. B. Norton	634,715	Oct. 10	1375	323, 324, 325	89	292
Matting	A. Buchwalder	617,076	Jan. 3	416	102	86	81
Matting for floors	J. A. Rennie	620,498	Feb. 28	3070	702	86	1461
Mattress	J. A. Hill	620,923	Mar. 14	712	158	86	1653
Mattress	W. E. Jackson, Jr	620,591	Mar. 7	72	14	86	1517
Mattress	D. H. Swartzwelder	633,968	Sept. 26	3291	767	88	2395
Mattress-filling machine	G. F. Martin	621,119	Mar. 14	1099	239	86	1726
Mattress for invalids	C. J. Angus	619,708	Feb. 21	1679	385	86	1181
Mattress-frame support	L. Petrilla	618,289	Jan. 24	2734	606	86	582
Mattress. Spring-wire	C. D. Brouyette	618,386	Jan. 24	2927	646	86	620
Mattress-stitching machine	E. T. Gaskill	621,650	Mar. 21	2048	457	86	1923
Mattress-stretching device. Wire-	J. S. Lee	635,936	Oct. 31	3683	850	89	785
Mattress-stuffing machine	R. I. Eggleston and F. Oliver	630,201	Aug. 1	873	188	88	895
Mattress-stuffing machine	R. R. Thompson	628,047	July 4	159	33,34	88	33
Mattress-stuffing machine	C. W. White	618,489	Jan. 31	3114	689	86	669
Mattress. Wire	F. J. Maier	617,173	Jan. 3	600	141	86	117
Mausoleums, vaults, &c. Roof for	C. E. Tayntor	635,984	Oct. 31	3787	872	89	807
Maximum-demand meter	W. C. Fish	631,289	Aug. 22	2907	657	88	1346
Maximum-meter	H. W. Young	628,861	Apr. 25	3077	709	87	647
Measure	C. L. Fulton	628,622	July 11	1269	295	88	266
Measure. Computing yard-	W. E. Whittington	625,715	May 23	3175	721	87	1380
Measure for drafting dress-skirts	E. Nicholas	622,900	Apr. 11	1295	298	87	264
Measure. Grain-	J. Fey	623,775	Apr. 25	2913	666	87	616
Measure. Interest-	D. Strange	634,040	Oct. 3	99	26	89	24
Measure. Liquid-	H. J. Brantley	633,564	Sept. 26	2575	603, 604	88	2254
Measure. Rotary lumber-	R. L. Cleveland	638,098	Nov. 28	3951	830, 831	89	1804
Measure. Tailor's	H. C. Bluthenthal	629,025	July 18	2012	468	88	429
Measure. Tape-	J. S. Barnes	618,050	Jan. 24	2268	506	86	496
Measure. Tape-	B. H. Kirk	628,475	July 11	984	228	88	210
Measure. Tape-	H. Steinmetz	629,139	July 18	2231	517	88	471
Measurer. Coin-controlled skimmed-milk	A. D. Hill	633,002	Sept. 12	1485	345, 346	88	2014
Measurer. Loom-cloth	S. Jensen and J. Comar	632,965	Sept. 12	1430	330	88	2003
Measuring air-currents, &c. Apparatus for	H. Kühne	628,478	July 11	991	230	88	211
Measuring and bagging machine. Grain	F. Dentler	632,253	Sept. 5	78	18	88	1723
Measuring and cutting goods from rolls. Machine for	F. H. Bascom	635,087	Oct. 17	2047	482, 483	89	441
Measuring and indicating apparatus. Electrical	C. F. Rodde	633,702	Sept. 26	2841	661	88	2305
Measuring and recording electric currents. Apparatus for	H. Aron	623,063	Apr. 11	1570	363	87	320
Measuring and registering device	E. S. Clayton	630,659	Aug. 8	1780	402	88	1082
Measuring apparatus	E. Smreker	635,154	Oct. 17	2188	510	89	467
Measuring apparatus. Automatic water-	L. Jonker	621,820	Mar. 28	2385	533	86	2003
Measuring apparatus for dispensing liquids. Self-	R. D. Beman	618,532	Jan. 31	3198	707, 708	86	685
Measuring apparatus. Liquid-	H. Berger	638,209	Dec. 5	2	1	89	1867

Alphabetical list of inventions—Continued.

Invention.	Name.	No.	Date.	Monthly volume. Spec.	Monthly volume. Dr'g.	Official Gazette. Vol.	Official Gazette. Page.
Measuring attachment. Automatic grain-	E. Sexton	637,293	Nov. 21	2065	442	89	1372
Measuring bolts of cloth. Device for	R. F. Livermore	635,492	Oct. 24	2845	650	89	610
Measuring-can	G. W. Chandler	623,499	Apr. 18	2391	549	87	498
Measuring device	M. Ecker	624,767	May 9	1496	340	87	1014
Measuring device	T. S. Jones	624,819	May 9	1607	365	87	1036
Measuring device. Automatic	R. G. Whitlock	634,634	Oct. 10	1225	291	89	261
Measuring device. Cloth-	J. H. King	637,620	Nov. 21	3049	629, 630	89	1607
Measuring device. Grain-	G. Schobert	625,940	May 30	3617	822	87	1482
Measuring electric currents. Apparatus for	H. Aron	630,840	Aug. 15	2084	471	88	1166
Measuring elevator. Liquid-	W. P. Harthan	619,253	Feb. 7	860	188	86	981
Measuring frictional resistances between bodies in sliding contact. Apparatus for	A. B. Lawther	634,007	Oct. 3	47	14, 15	89	13
Measuring instrument	W. B. Bradsby	631,536	Aug. 22	3355	763	88	1435
Measuring instrument	J. Saunders and S. Chenault	618,135	Jan. 24	2448	546	86	529
Measuring instrument. Electric	C. R. Weymouth	620,626	Mar. 7	141	29	86	1529
Measuring instrument. Electrical	V. Arcioni	636,097	Oct. 31	4028	922	89	854
Measuring instrument. Electrical	H. P. Davis and F. Conrad	627,908	June 27	3151	690	87	2288
Measuring instrument. Electrical	G. T. Hanchett and F. B. Sage	617,418	Jan. 10	1081	247	86	230
Measuring instrument. Electrical	E. W. Jewell	629,130	July 18	2210	512	88	468
Measuring instrument. Electrical	E. W. Jewell	631,871	Aug. 29	3975	889	88	1566
Measuring instrument. Electrical	F. W. Roller	636,182	Oct. 31	4180	959, 960	89	885
Measuring instrument. Electrical	E. Thomson	634,965	Oct. 17	1810	429	89	393
Measuring instrument. Electrical	J. Wills	626,848	June 13	1172	261	87	1858
Measuring instrument. Electrostatic	E. Thomson	627,155	June 20	1740	382	87	1990
Measuring instrument. Lumber-	J. A. White, Jr	627,836	June 27	3017	659	87	2259
Measuring-machine	E. H. and E. F. Parks and T. P. Farmer.	633,102	Sept. 12	1690	397, 398, 399, 400	88	2055
Measuring machine. Cloth-	J. T. Darby	619,726	Feb. 21	1721	393	86	1189
Measuring machine. Cloth-	J. H. Vanderburgh	628,374	July 4	795	185	88	153
Measuring machine. Liquid-	J. G. Cherry and S. W. Brainard	623,500	Apr. 18	2393	549, 550	87	498
Measuring machine. Rope-	H. G. Chilton	617,280	Jan. 3	798	186	86	157
Measuring meters. Recording mechanism for fluid-	L. C. Reed	635,594	Oct. 24	3023	694	89	643
Measuring small visual angles. Instrument for	L. K. Bell	617,895	Jan. 17	1990	444, 445	86	427
Measuring vessel	J. H. Martindale	632,190	Aug. 29	4577	1031	88	1684
Measuring-vessel draining-stand	A. D. Howard	637,963	Nov. 28	3679	773	89	1753
Meat. Apparatus for impregnating	K. Baum	631,886	Aug. 29	3998	894	88	1571
Meat compound and making same. Desiccated-	F. C. Colby	621,227	Mar. 14	1290	------	86	1765
Meat-cutter	J. H. Shaw	623,839	Apr. 25	3037	698	87	640
Meat-cutter	H. K. Wood	631,451	Aug. 22	3195	726	88	1404
Meat-cutting-machine attachment	L. Ballbach	621,203	Mar. 14	1240	274	86	1755
Meat extracts. Making	J. W. C. Hamilton	636,525	Nov. 7	519	------	89	1026
Meat-grinder	J. Hardt	633,135	Sept. 19	1760	415	88	2080
Meat-hanger	J. J. Fitzgerald	639,549	Dec. 19	2511	579	89	2393
Meat marking and smoking apparatus	A. F. Nathan	627,625	June 27	2650	582	87	2187
Meat-mixer	F. Cowin	637,765	Nov. 28	3309	692	89	1677
Meat mixing and kneading machine	F. Cowin	631,846	Aug. 29	3933	879, 880	88	1558
Meat or vegetable cutter	R. C. Ellrich	622,844	Apr. 11	1197	278	87	246
Meat-rack	C. Hoyt	633,843	Sept. 26	3077	715	88	2353
Meat-securing device	J. Patterson	628,546	July 11	1121	262	88	236
Meat-skinning machine. Fat-	T. B. Whittlesey and F. Y. McKinstry.	625,622	May 23	3021	688	87	1350
Meat-tenderer	N. D. Stanley	633,740	Sept. 26	2906	674	88	2317
Meat-tree	J. J. Fitzgerald	628,784	July 11	1577	364	88	328
Meat-tree or hanger for meat	J. J. Fitzgerald	629,105	July 18	2166	503	88	460
Mechanical device	F. K. Gaff	626,604	June 6	689	159	87	1748
Mechanical drier	F. D. Cummer	633,123	Sept. 19	1738	409, 410	88	2075
Mechanical drier	F. D. Cummer	634,199	Oct. 3	393	101, 102	89	81
Mechanical drier	H. H. Wing	622,580	Apr. 4	713	166	87	136
Mechanical elements. Device for securing	H. Zorn	628,060	July 4	181	41	88	37
Mechanical figure	A. Haueis	624,799	May 9	1553	354, 355	87	1026
Mechanical joint	W. H. Thompson	634,595	Oct. 10	1161	276	89	248
Mechanical motor	C. C. Clawson	635,425	Oct. 24	2727	625, 626	89	587
Mechanical motor	H. S. Durand, R. M. Beck, and R. K. McLellan.	629,343	July 25	2585	599, 600	88	557
Mechanical motor	C. Hill	620,845	Mar. 7	577	125	86	1615
Mechanical motor	W. S. Laney	625,691	May 23	3129	711	87	1370
Mechanical motor	E. C. Nichols	625,349	May 23	2552	580, 581	87	1257
Mechanical motor	E. A. Seward and J. J. Joines	621,858	Mar. 28	2451	547	86	2017
Mechanical movement	B. T. Brown	629,027	July 18	2014	469	88	429
Mechanical movement	J. B. Chamberlain	621,487	Mar. 21	1756	391	86	1866
Mechanical movement	G. K. Cheney	623,133	Apr. 18	1733	401	87	365
Mechanical movement	C. P. Cottrell	623,885	Apr. 25	3116	718, 719	87	655
Mechanical movement	C. P. Cottrell	623,886	Apr. 25	3122	719, 720	87	656
Mechanical movement	R. L. Crossman	628,220	July 4	480	115, 116	88	96
Mechanical movement	Z. T. Furbish	616,911	Jan. 3	86	18	86	18
Mechanical movement	A. A. Gamble	636,254	Nov. 7	45	11	89	933
Mechanical movement	L. M. Gautier	620,439	Feb. 28	2980	682, 683	86	1443
Mechanical movement	G. Hallberg	631,635	Aug. 22	3541	797, 798	88	1473
Mechanical movement	J. E. Hartwell	630,218	Aug. 1	901	198	88	900

Alphabetical list of inventions—Continued.

Invention.	Name.	No.	Date.	Monthly volume. Spec.	Monthly volume. Dr'g.	Official Gazette. Vol.	Official Gazette. Page.
Mechanical movement	C. Hechtle	621,247	Mar. 14	1321	293	86	1770
Mechanical movement	S. C. Houghton	630,830	Aug. 8	2064	466	88	1140
Mechanical movement	H. Irving	619,420	Feb. 14	1157	262	86	1055
Mechanical movement	C. L. and C. L. Kline, Jr	632,725	Sept. 12	994	230, 231	88	1918
Mechanical movement	J. Konar	624,052	May 2	187	40	87	738
Mechanical movement	C. C. Protheroe	626,345	June 6	242	56, 57	87	1660
Mechanical movement	C. C. Protheroe and A. H. Man	629,392	July 25	2679	624	88	578
Mechanical movement	P. J. Riley	626,038	May 30	3861	875	87	1527
Mechanical movement	T. S. Smith	622,827	Apr. 11	1155	266, 267	87	238
Mechanical movement	O. Weise	627,554	June 27	2504	550	87	2157
Mechanical movement and bicycle-gear	N. and R. Rapp, Jr	617,447	Jan. 10	1130	258	86	238
Mechanical movement for gas-engine valves, &c.	J. B. Fenner	634,207	Oct. 3	419	106, 107	89	87
Mechanical movement. Pattern-operated	M. E. Greenhouse	638,573	Dec. 5	721	154	89	2004
Mechanical power	W. T. Venable	619,914	Feb. 21	2063	468	86	1255
Mechanical trimmer	A. Fitzroy	626,829	June 13	1125	251	87	1849
Medical battery and appendage. Coin-freed	B. Wolinski	629,022	July 18	2006	467	88	428
Medical compound	G. L. Schaefer	636,216	Oct. 31	4241	------	89	897
Medical compound	G. L. Schaefer	636,217	Oct. 31	4242	------	89	897
Medical compound	G. L. Schaefer	636,218	Oct. 31	4243	------	89	897
Medical pump	R. H. Wappler	634,678	Oct. 10	1303	307	89	277
Medical shelf and indicator	H. M. Minnis	617,689	Jan. 10	1570	355	86	324
Medical tampon	F. von Raitz	639,864	Dec. 26	3096	712	89	2528
Medicament-carrier	C. M. Jones and A. L. Harvey	634,354	Oct. 3	739	176	89	148
Medicinal compound and making same	A. Neumann	633,289	Sept. 19	2055	------	88	2138
Medicinal product	G. Fuchs	635,471	Oct. 24	2814	------	89	605
Medicine-box	F. C. Groneman	625,757	May 30	3265	740	87	1415
Medicine carrier and measurer	L. Hoage and A. Nyvall	635,963	Oct. 31	3728	862	89	793
Medicine-case	W. F. Barnes	620,013	Feb. 21	2235	507	86	1287
Medicine-case	W. F. Barnes	638,619	Dec. 5	816	176	89	2022
Medicine-cup holder	G. O. Shakespeare	618,210	Jan. 24	2593	573	86	555
Medicine dose-indicator	J. B. Mowry	623,171	Apr. 18	1814	415	87	382
Medicine-glass	J. L. Burton	617,952	Jan. 17	2088	468	86	448
Medicine-mixing and bottle-filling machine. Automatic	A. B. Hazzard	622,429	Apr. 4	406	94	87	76
Medicine-package	W. E. Pattison	634,855	Oct. 10	1622	379	89	338
Medicine time-indicator	T. F. Handly	619,078	Feb. 7	533	112	86	914
Medicines. Disguising unpalatable	D. F. Davenport	617,956	Jan. 17	2093	------	86	448
Megaphone	E. B. Merriman	622,379	Apr. 4	309	71	87	59
Memoranda. Device for receiving	H. J. L. Blanke	619,661	Feb. 14	1573	359	86	1134
Memorandum-case	B. I. Gilman	626,901	June 13	1301	286	87	1884
Memorandum-pad. Duplicating	C. P. Searles	630,120	Aug. 1	735	158	88	869
Menu. Duplex	S. Billow	632,957	Sept. 12	1414	326, 327	88	2001
Mercerizing	P. Dosne	629,780	Aug. 1	38	------	88	728
Mercerizing	J. Schneider	621,477	Mar. 21	1743	388	86	1863
Mercerizing apparatus	W. E., W. H., and H. E. Aykroyd	620,530	Feb. 28	3128	715, 716, 717	86	1473
Mercerizing apparatus	H. David	618,399	Jan. 31	2962	656	86	641
Mercerizing apparatus	P. S. Marshall	634,362	Oct. 3	748	178	89	149
Mercerizing apparatus	G. W. Miller	628,669	July 11	1378	322	88	286
Mercerizing-machine	H. W. Butterworth	617,561	Jan. 10	1339	301	86	279
Mercerizing-machine	E. Heberlein	624,800	May 9	1557	355	87	1027
Mercur-ammonium compound and making same	C. F. M. Schaerges	628,417	July 4	870	------	88	167
Mercury-holder	E. D. Gilbert	628,933	July 18	1856	430	88	398
Mercury soluble in water and manufacturing same. Product of	A. Lottermoser	628,270	July 4	596	------	88	115
Merry-go-round	O. R. Hauskey	616,923	Jan. 3	116	26	86	24
Merry-go-round	J. W. Hile	639,386	Dec. 19	2222	515	89	2337
Merry-go-round	O. Olson and J. A. Johanson	630,003	Aug. 1	517	113	88	825
Merry-go-round	P. J. Spracklen	617,609	Jan. 10	1424	324	86	296
Merry-go-round. Centrifugal	J. C. Holloway	623,667	Apr. 25	2698	619	87	574
Merry-go-round. Marine	L. Simmons	628,679	July 11	1394	324	88	289
Metal. Apparatus for locally hardening pieces of	C. Muehleisen	637,009	Nov. 14	1508	325	89	1252
Metal at high temperature. Machine for exhausting molten	J. T. Wainright. (Reissue)	11,737	Apr. 25	3263	750	87	688
Metal-bar-straightening machine	L. H. Brightman	617,223	Jan. 3	685	159	86	134
Metal bars. Apparatus for handling	V. E. Edwards and P. B. Morgan	628,528	July 11	1093	255	88	230
Metal bars. Machine for jumping, welding, and bending	A. Charlet	630,082	Aug. 1	677	145, 146	88	857
Metal bars, &c. Press for bending and straightening	W. J. Muncaster	634,245	Oct. 3	512	130, 131	89	104
Metal-bending device	R. Fischer	627,228	June 20	1864	409	87	2014
Metal-bending machine	J. Nall	622,189	Mar. 28	3071	695	86	2139
Metal binding-strip	H. O. Mooney	623,681	Apr. 25	2723	624	87	580
Metal bodies. Process of and apparatus for shaping, embossing, or ornamenting hollow	C. Huber	618,353	Jan. 24	2840	631	86	602
Metal-breaking apparatus	T. W. Ward and H. W. Lash	623,853	Apr. 25	3067	706	87	645
Metal by rolls. Machine for shaping	J. Tedell	627,546	June 27	2490	547	87	2155
Metal-calking tool	J. F. Schlick	617,054	Jan. 3	382	93	86	73
Metal chest, box, &c	G. F. Dewdney	631,539	Aug. 22	3363	764	88	1437
Metal-cutting machine	C. Crétin	618,952	Feb. 7	284	61	86	866
Metal-cutting machine	L. M. Ham	623,013	Apr. 11	1495	346	87	305
Metal cutting or shearing machine	A. Schärfl	625,421	May 23	2675	609	87	1281
Metal-cutting tool and making same	F. G. Echols	631,158	Aug. 15	2665	602, 603	88	1280
Metal-drawing machine	J. Illingworth	621,678	Mar. 21	2111	470, 471	86	1937
Metal-drill	J. Mills and A. S. Smith	639,262	Dec. 19	1968	453, 454	89	2284
Metal-drilling-machine attachment	W. E. Canedy	634,324	Oct. 3	676	163	89	136
Metal-extracting apparatus	P. Somerville	618,622	Jan. 31	3353	745	86	714
Metal feeding and melting mechanism	J. N. Chamberlain	623,075	Apr. 11	1590	367	87	324

Alphabetical list of inventions—Continued.

Invention.	Name.	No.	Date.	Monthly volume. Spec.	Monthly volume. Dr'g.	Official Gazette. Vol.	Official Gazette. Page.
Metal foils. Production of patterned	G. Epp	634,523	Oct. 10	1033	------	89	223
Metal-forming machine	S. D. and H. T. Latty and W. J. Sleffel.	632,577	Sept. 5	676	156	88	1840
Metal hooks. Making wrought-	F. J. Monz	624,067	May 2	223	47	87	744
Metal hoop	W. Goldie	630,603	Aug. 8	1681	378	88	1064
Metal hoop	W. Goldie	634,615	Oct. 10	1198	283	89	255
Metal into hollow articles or strips of metal. Apparatus for converting liquid	A. Prym	629,817	Aug. 1	106	26	88	741
Metal. Machine for making expanded	F. H. Pitkin	619,340	Feb. 14	1011	228	86	1027
Metal-nurling machine	C. E. Billings	637,320	Nov. 21	2122	457	89	1384
Metal parts. Composition for and method of heating	R. Deissler	623,239	Apr. 18	1929	------	87	404
Metal pipe. Soil or other	D. G. Brighton	627,293	June 20	1983	436	87	2039
Metal-planer	C. A. Juengst	617,532	Jan. 10	1281	290	86	269
Metal-planing tool	W. H. Chappell	617,670	Jan. 10	1530	347	86	318
Metal-plate-bending machine	C. N. Smith	622,282	Apr. 4	148	34,35	87	31
Metal-plate catcher, brander, and polishing machine	J. E. Burson	620,085	Feb. 21	2358	534	86	1310
Metal-plate-shaping machine	J. C. Sotter	626,574	June 6	642	149	87	1739
Metal plates or sheets. Finishing	W. M. Theobald	627,023	June 13	1507	------	87	1925
Metal-punching apparatus	G. B. Tennant	639,793	Dec. 26	2977	684, 685	89	2506
Metal. Rustless	H. S. Taylor	624,127	May 2	336	------	87	764
Metal screw-covers. Machine for making	G. Richter	634,764	Oct. 10	1459	343, 344	89	306
Metal-shaping press	J. Lanz	634,528	Oct. 10	1041	248, 249	89	225
Metal-shearing apparatus	G. E. Thackray	631,832	Aug. 29	3904	873, 874	88	1553
Metal-shearing machine	G. B. Tennant	626,448	June 6	431	101, 102	87	1697
Metal-shearing machine	B. Wesselmann	629,632	July 25	3128	728	88	665
Metal-shearing machine	B. Wesselmann	629,633	July 25	3129	728	88	665
Metal sheets. Apparatus for treating	G. Woolsey	638,829	Dec. 12	1199	268, 269	89	2120
Metal sheets or plates. Finishing	W. M. Theobald	627,021	June 13	1506	------	87	1925
Metal sheets or plates. Finishing	W. M. Theobald	627,022	June 13	1506	------	87	1925
Metal sheets. Piling-table for	S. S. Wood	631,841	Aug. 29	3922	877	88	1556
Metal sheets. Rotary molding-machine for shaping	E. Jordan	636,341	Nov. 7	185	41	89	958
Metal-stamping apparatus	L. Liais	620,942	Mar. 14	754	165	86	1660
Metal-stock-straightening machine	O. Mergenthaler	636,912	Nov. 14	1312	281	89	1213
Metal. Supporting apparatus for pieces or lengths of	E. I. Braddock	640,086	Dec. 26	3498	802	89	2611
Metal tube	F. A. Wilmot	621,730	Mar. 21	2204	497	86	1954
Metal tube	F. A. Wilmot	624,144	May 2	367	76	87	770
Metal tube. Compound	G. H. Everson	627,992	July 4	65	12	88	14
Metal-turning machine	F. Schulze	617,408	Jan. 10	1060	242, 243	86	226
Metal wheel	E. J. Birkett	636,890	Nov. 14	1263	271	89	1204
Metal wheel	W. C. Waterbury	626,254	June 6	64	15	87	1627
Metal wool. Machine for manufacturing	S. Feust	619,076	Feb. 7	530	111	86	913
Metal-working machine	F. G. Echols	627,299	June 20	1991	438, 439	87	2040
Metal-working machine	E. C. Henn	635,853	Oct. 31	3524	810, 811	89	755
Metal-working machine	S. W. and S. W. Putnam, Jr	638,274	Dec. 5	134	31,32	89	1891
Metal-working machine	G. E. Witherell	625,486	May 23	2780	633, 634	87	1301
Metal-working-machine counter mechanism	N. Sperber	628,043	July 4	152	31,32	88	31
Metal-working-machine tool-holder	J. Carr	629,236	July 18	2382	553	88	499
Metal-working machines. Tool-holder for	J. J. Dahl	617,008	Jan. 3	278	62	86	56
Metal-working tool	B. M. W. Hanson	639,561	Dec. 19	2540	583	89	2400
Metal-working tool	E. C. Peck	639,279	Dec. 19	2000	461	89	2292
Metals and ores. Electrolytic apparatus for treating	G. D. Burton	616,891	Jan. 3	50	10	86	12
Metals. Apparatus for electrodeposition of	E. Emerson	617,526	Jan. 10	1262	287	86	266
Metals, &c. Apparatus for purifying and recovering	W. J. Clapp	633,568	Sept. 26	2584	605	88	2256
Metals. Apparatus for shaping, forging, drawing, solidifying, and squirting	J. Robertson	629,610	July 25	3091	720, 721	88	657
Metals by electricity. Heating	E. M. Bentley	628,429	July 4	892	209	88	171
Metals. Cell for the precipitation of	J. Luce	629,134	July 18	2221	515	88	470
Metals. Composition of matter used in cleaning and polishing	W. Fitzgerald	621,053	Mar. 14	984	------	86	1703
Metals. Electrolytic apparatus for precipitating	H. S. Badger	633,544	Sept. 19	2518	591	88	2226
Metals from solution. Electrolytic apparatus for deposition of	T. Craney	626,972	June 13	1411	312	87	1906
Metals from their ores and apparatus therefor. Extracting	J. J. Shedlock	619,094	Feb. 7	559	118, 119, 120	86	920
Metals from their solutions. Reducing	C. B. Jacobs	624,040	May 2	162	36	87	733
Metals. Ornamenting	P. C. McIlhiney	628,348	July 4	753	174	88	145
Metals. Preparing cathodes for electrodeposition of	H. Becker	630,796	Aug. 8	1999	------	88	1126
Metals. Refining	B. Talbot	639,872	Dec. 26	3108	------	89	2530
Metals. Refining	B. Talbot	639,873	Dec. 26	3110	------	89	2530
Metallic articles. Apparatus for heating and hardening	L. F. Schulze	636,005	Oct. 31	3824	879	89	814
Metallic articles. Restoring worn rolled or drawn	G. S. Merrill	617,422	Jan. 10	1091	249	86	232
Metallic carbids. Manufacturing	H. L. Hartenstein	630,690	Aug. 8	1830	------	88	1091
Metallic compounds and producing metallic carbids. Reducing	I. L. Roberts	629,394	July 25	2683	625	88	579
Metallic leaf. Device for applying	W. H. Coe	627,052	June 13	1554	340	87	1934
Metallic plates or sheets, &c. Machinery for shearing or cutting	H. S. Thomas	629,532	July 25	2954	688	88	631
Metallic sheet	J. F. Golding	631,366	Aug. 22	3044	690	88	1373
Metallic sheet for use in constructing buildings	G. Fugman	634,237	Oct. 3	492	123	89	100
Metallic spheres. Apparatus for producing	M. F. Christensen	632,336	Sept. 5	233	55	88	1753
Metallic sulfids. Reducing	J. Durie	624,000	May 2	85	------	87	718

Alphabetical list of inventions—Continued.

Invention.	Name.	No.	Date.	Monthly volume. Spec.	Monthly volume. Dr'g.	Official Gazette. Vol.	Official Gazette. Page.
Metallurgical furnace	J. A. Anker	631,414	Aug. 22	3131	710	88	1390
Metallurgical furnace	W. Swindell	625,367	May 23	2581	587, 588	87	1263
Metallurgical furnace	D. Townsend	618,751	Jan. 31	3587	800, 801	86	761
Metallurgical furnace. Tipping	P. T. Berg	617,918	Jan. 17	2034	455	86	436
Meter: *See* Disk meter. Electric meter. Electrical meter. Electrolytic meter. Gas-meter. Grain-meter. Liquid-meter. Maximum-meter. Maximum-demand meter. Motor-meter. Oscillating meter. Rotary meter. Summation-meter. Two-rate meter. Volt and ampere meter. Water-meter. Wattmeter.							
Meter-box	E. H. Ford	633,187	Sept. 19	1859	438	88	2099
Meter-box and meter connection therewith	H. V. Estill	627,911	June 27	3156	691	87	2289
Meter box or case	J. J. Hoppes	620,588	Mar. 7	66	13	86	1516
Meter prepayment attachment	C. Luke	635,730	Oct. 24	3277	757, 758	89	693
Meter-registering device	J. M. Byron	633,567	Sept. 26	2582	605	88	2255
Meter-testing apparatus	F. W. Gow	625,029	May 16	1971	440	87	1123
Metronome	R. A. Becket and W. A. Wood	619,857	Feb. 21	1968	447	86	1238
Metronome	J. C. Doerfer	618,336	Jan. 24	2814	624, 625	86	597
Metronome	F. A. Lee	637,624	Nov. 21	3055	631	89	1608
Micro-audiphone	H. W. Harmeyer	621,244	Mar. 14	1317	292	86	1770
Micrometer depth-gage	C. L. Walters	623,748	Apr. 25	2822	647	87	598
Micrometer-gage	G. J. Lavigne	620,337	Feb. 28	2817	642	86	1412
Microscope	E. Bausch and A. Koehler	617,007	Jan. 3	273	62	86	55
Microscope	H. Zirngibl	621,196	Mar. 14	1229	271	86	1752
Microtome	W. Löw	618,514	Jan. 31	3170	700	86	679
Mid-wire take-up	C. Hensley	621,081	Mar. 14	1027	225	86	1711
Middlings-purifier	E. Hards	625,106	May 16	2120	481, 482	87	1150
Milk and cream. Preserving	J. Russell	638,283	Dec. 5	181	38	89	1902
Milk-can	R. Durand	632,556	Sept. 5	647	150	88	1834
Milk-can	T. W. Forster	620,236	Feb. 28	2634	600	86	1376
Milk-can	C. Hobert	638,334	Dec. 5	280	57	89	1920
Milk-can holder. Condensed	W. Harlan	637,460	Nov. 21	2380	515	89	1436
Milk-clarifying apparatus	C. H. Newton	626,766	June 13	1002	225, 226	87	1827
Milk-cooler	J. Q. Adams, Jr	630,835	Aug. 15	2075	469	88	1166
Milk-cooler	M. L. Cowan	633,261	Sept. 19	2010	472	88	2129
Milk-cooler	M. L. Cowan	633,262	Sept. 19	2012	472	88	2130
Milk-cooler	E. G. Fullerton	633,992	Oct. 3	19	5	89	7
Milk-cooler	J. Macafee	638,932	Dec. 12	1382	316	89	2156
Milk-cooler	W. A. Nash	625,982	May 30	3704	841	87	1499
Milk-cooler	J. E. Stephens	635,903	Oct. 31	3628	836	89	775
Milk cooler and aerator	D. P. Cox	626,673	June 13	824	188	87	1793
Milk cooler and aerator	A. L. Stone	638,406	Dec. 5	421	88	89	1946
Milk cooling and aerating apparatus	A. L. Foreman	640,122	Dec. 26	3565	820	89	2625
Milk cooling and aerating apparatus	W. J. Rickenbacher	620,671	Mar. 7	240	49	86	1548
Milk-cooling apparatus	T. Schubert	629,876	Aug. 1	232	52	88	766
Milk-curd-cutting machine	P. H. Kasper and F. J. Schoepke	618,103	Jan. 24	2382	532	86	516
Milk-heater	J. B. Gilbert	618,226	Jan. 24	2623	580	86	560
Milk-jar and top	J. D. Miller	637,740	Nov. 21	3260	680	89	1649
Milk-pasteurizing apparatus	J. B. O'Connor	636,281	Nov. 7	103	23	89	943
Milk. Preserving	L. Clerc	626,486	June 6	495	------	87	1709
Milk-rack and refrigerator	A. M. Smith	634,070	Oct. 3	146	38	89	33
Milk-sampler	J. Kolarik and C. Werder	625,399	May 23	2631	599	87	1273
Milk-sampler	F. Talcott and F. J. Daubenberger	631,549	Aug. 22	3393	768	88	1443
Milk-test bottles. Machine for shaking Babcock	H. Kolls	639,404	Dec. 19	2255	520	89	2343
Milk-urn	N. Muslar	637,815	Nov. 28	3393	711	89	1696
Milker. Cow-	W. M. Mehring	638,640	Dec. 5	853	185	89	2030
Milker. Cow-	N. H. Norby	636,446	Nov. 7	362	82	89	994
Milking apparatus	W. H. Lawrence	628,338	July 4	736	170, 171	88	142
Milking apparatus	A. Shiels	619,442	Feb. 14	1199	272	86	1062
Milking-machine	C. C. Bundy	631,774	Aug. 29	3815	849	88	1534
Mill: *See* Boring and turning mill. Cane-mill. Cider-mill. Coffee-mill. Coffee or grain mill. Crushing and grinding mill. Crushing or grinding mill. Cutting and grinding mill. Feed-mill. Fulling-mill. Grinding-mill. Hominy-mill. Mustard-mill. Nut-mill. Paint-mill. Pulverizing-mill. Quartz-mill. Rolling-mill. Rotary mill. Sawmill. Smut-mill. Stamp-mill. Windmill. Wire-rod mill.							
Mill	J. Dain, Jr	639,717	Dec. 26	2829	652, 653	89	2476
Mill-box	E. Andrews	634,320	Oct. 3	667	161	89	134
Mill for grinding bone carbon, &c	E. Lister	626,028	May 30	3840	871	87	1524
Mill products. Machine for testing	J. Warrington	639,834	Dec. 26	3045	700, 701	89	2519
Mill-spout	D. Parks	625,984	May 30	3707	842	87	1500
Milling-cutter. Removable-tooth	H. S. Brown	630,081	Aug. 1	675	145	88	856
Milling-cutter tooth	H. L. Arnold	637,495	Nov. 21	2445	531	89	1448

Alphabetical list of inventions—Continued.

Invention.	Name.	No.	Date.	Monthly volume. Spec.	Monthly volume. Dr'g.	Official Gazette. Vol.	Official Gazette. Page.
Milling-cutters. Machine for making	W. Alexander	622,791	Apr. 11	1088	252, 253	87	226
Milling-machine	O. J. Beale	631,923	Aug. 29	4060	911	88	1582
Milling-machine	J. C. Potter	619,501	Feb. 14	1297	297	86	1083
Milling-machine. Automatic	O. Mergenthaler	636,911	Nov. 14	1309	281	89	1213
Milling-machine. Automatic	O. Mergenthaler	636,915	Nov. 14	1323	284	89	1215
Milling-machine. Automatic	O. Mergenthaler	636,917	Nov. 14	1330	285, 286	89	1216
Milling-machine. Automatic	O. Mergenthaler	636,918	Nov. 14	1333	286	89	1216
Milling-machine. Universal	O. Mergenthaler	636,914	Nov. 14	1316	282, 283	89	1214
Milling-tool	W. J. Smith	630,998	Aug. 15	2371	540	88	1223
Mincing-machine	J. C. Hall	637,734	Nov. 21	3248	677	89	1646
Mine-door operating mechanism	A. N. Humphreys and E. McGrew	618,678	Jan. 31	3458	771, 772	86	735
Mine-gate	N. K. Bowman	617,699	Jan. 10	1592	360	86	329
Mine-gate	W. H. Tschantz	639,629	Dec. 19	2654	609	89	2424
Mine-shaft doors. Device for operating	C. Caldwell	634,802	Oct. 10	1517	356, 357	89	318
Mine-shafts, &c. Means for raising water from	R. E. Browne	628,219	July 4	479	115	88	95
Mine-shafts. Safety device for use in sinking	G. Troutman and J. D. Yetter	620,995	Mar. 14	866	188	86	1682
Mines. Hoisting-cage for	J. W. Hall	629,854	Aug. 1	182	42, 43	88	756
Mines, &c. Raising or lowering apparatus for	D. Davy	637,092	Nov. 14	1656	358, 359	89	1279
Miner's drill	H. Aylmer	622,409	Apr. 4	376	86	87	70
Mining and dredging ejector	W. Muir. (Reissue)	11,755	July 4	912	213	88	176
Mining apparatus	P. Schnetter	638,285	Dec. 5	184	39	89	1902
Mining apparatus	S. W. Wible	620,264	Feb. 28	2685	615, 616	86	1387
Mining apparatus. Placer-	G. Wetherby	619,647	Feb. 14	1556	354	86	1131
Mining-brace	D. Jacobs	617,163	Jan. 3	587	138	86	115
Mining-caisson	J. Buchtel	621,216	Mar. 14	1267	280	86	1760
Mining device	C. Wright	624,281	May 2	623	136	87	817
Mining-dredge	L. D. Sibley	629,048	July 18	2052	478	88	437
Mining-drill	W. R. Wallace	635,905	Oct. 31	3630	836, 837	89	776
Mining-engine	B. Yoch	634,422	Oct. 3	849	205	89	170
Mining in frozen earth. Apparatus for	J. E. Stuart	635,522	Oct. 24	2898	661, 662	89	621
Mining-machine	H. H. Bliss	635,909	Oct. 31	3639	839, 840	89	778
Mining-machine	J. M. McHugh	623,924	Apr. 25	3190	734, 735	87	669
Mining-machine	C. W. Miller	630,388	Aug. 8	1267	276, 277	88	986
Mining-machine	E. H. Mills	635,174	Oct. 17	2212	516	89	471
Mining-machine	W. T. Moss	639,267	Dec. 19	1977	456	89	2287
Mining-machine	C. O. Palmer	618,130	Jan. 24	2443	545	86	528
Mining machine. Coal-	C. M. Johnson	628,007	July 4	92	18, 19	88	20
Mining machine. Gold-	T. S. Quackenbush	629,466	July 25	2809	652, 653, 654	88	603
Mining precious metals. Apparatus for	S. R. Stambaugh	633,397	Sept. 19	2276	536	88	2181
Mining-shovel	F. D. Koch	638,681	Dec. 5	943	210	89	2051
Mineral-extracting machine	K. Staahlgren	631,680	Aug. 22	3617	815	88	1488
Mineral-lode tracer	A. R. Heyland and J. H. Gray	628,321	July 4	711	165	88	136
Mineral-separator	W. E. Porter and W. R. McKelvy	630,926	Aug. 15	2234	509	88	1196
Mineral-water head	J. Ormerod	623,218	Apr. 18	1894	435	87	397
Mineral wool. Manufacturing	A. D. Elbers	623,398	Apr. 18	2219	------	87	463
Mineral wool. Manufacturing	W. H. Kenler and C. H. Greene	637,126	Nov. 14	1745	------	89	1296
Minnow bucket and trap. Combined	S. Heberling	616,924	Jan. 3	117	26	86	24
Mirror	J. A. Wright and J. H. Curry	631,033	Aug. 15	2445	555	88	1237
Mirror. Hand-	C. E. Allen	617,626	Jan. 10	1453	331	86	302
Mirror-holder	B. Almonte	620,401	Feb. 28	2918	668	86	1432
Mirror. Lady's toilet-	D. C. Kenyon	623,790	Apr. 25	2943	672	87	622
Mirror-stand	C. R. Arnold	639,917	Dec. 26	3193	733	89	2548
Mirror supporting and adjusting device	F. W. Tobey	625,216	May 16	2293	522	87	1183
Mirrors. Apparatus for manufacturing	D. J. Murnane	622,513	Apr. 4	578	135	87	109
Mirrors. Protector for mercury-back	D. J. Murnane	631,121	Aug. 15	2606	589	88	1268
Miter-board attachment	P. A. Holmberg	639,388	Dec. 19	2225	515	89	2338
Miter-box	T. Bootsman	624,745	May 9	1452	327, 328	87	1006
Miter-box	T. Bootsman	638,620	Dec. 5	818	176	89	2022
Miter-box	W. H. Gordon	621,524	Mar. 21	1827	406	86	1879
Miter-box and calculator. Double	P. F. McDonald	630,257	Aug. 1	968	213	88	913
Mitering instrument	V. A. Pernot	622,530	Apr. 4	630	148	87	119
Mitering-machine	G. Clemens	629,425	July 25	2738	636, 637	88	590
Mitt. Catcher's	J. F. Draper	627,687	June 27	2758	604	87	2207
Mitten	V. A. Scott	630,078	Aug. 1	671	144	88	856
Mitten. Catcher's	W. S. Tompkins	622,733	Apr. 11	990	230	87	207
Mitten. Driving-	P. W. Counselman	626,969	June 13	1407	311	87	1905
Mixer: *See* Beverage-mixer. Cake-dough mixer. Concrete-mixer. Dough-mixer. Drink-mixer. Gas and air mixer. Meat-mixer. Paint-mixer. Tea-mixer.							
Mixer for concrete, cement, or other substances	F. B. Gilbreth	620,028	Feb. 21	2261	513	86	1292
Mixing device	C. H. Bagley	636,737	Nov. 7	961	206	89	1126
Mixing-machine	W. M. Cummer	633,124	Sept. 19	1741	410	88	2076
Mixing-machine	C. Fickelscheer	619,018	Feb. 7	424	89	86	892
Models for dressmakers, tailors, &c. Producing	C. F. Edgar	631,205	Aug. 15	2741	621	88	1296
Moistener and envelop-sealer. Stamp-	H. A. and R. B. Bostwick	631,104	Aug. 15	2572	582	88	1261
Moistener and sealer. Envelop	H. A. Thexton	639,314	Dec. 19	2066	475	89	2305
Moistener. Stamp-	A. Niederer	632,967	Sept. 12	1432	330	88	2004

Alphabetical list of inventions—Continued.

Invention.	Name.	No.	Date.	Monthly volume. Spec.	Monthly volume. Dr'g.	Official Gazette. Vol.	Official Gazette. Page.
Moistening and sealing device. Envelop	C. W. Gaskill	626,899	June 13	1294	284	87	1882
Moistening and sealing envelops. Machine for	H. V. Sickel and H. Riehl, Jr	630,571	Aug. 8	1623	362, 363	88	1053
Moistening, closing, and sealing envelops. Machine for	J. Dupaw	632,991	Sept. 12	1469	342	88	2011
Moisture. Apparatus for preventing condensation of	E. H. Maule	624,358	May 2	753	169	87	844
Moisture-chamber for blotter-baths	H. E. Gifford	628,657	July 11	1359	317	88	283
Mold: *See* Brick-mold. Packing-mold. Glassware-mold. Tank-mold. Ice-cream mold. Type-mold. Ingot-mold. Water-tank mold.							
Mold	F. A. Duncan	627,666	June 27	2721	597	87	2201
Mold	G. H. Fox	619,554	Feb. 14	1376	317	86	1098
Mold	T. F. Keller	628,816	July 11	1641	378	88	341
Mold	L. B. Pendleton	618,582	Jan. 31	3288	732	86	702
Mold and mold apparatus	O. Eisele	628,578	July 11	1187	277	88	249
Mold and weight gage	A. C. Gillette	628,405	July 4	850	199	88	163
Mold-cooling device	J. E. Lippincott	628,543	July 11	1114	260, 261	88	235
Mold for composition rollers	E. Stough	628,367	July 4	783	182	88	151
Mold for prism-tiles	L. Heidt	618,671	Jan. 31	3449	769	86	734
Mold for relief ornamentation	W. H. Henay	637,509	Nov. 21	2466	535	89	1452
Mold gate-pattern	J. B. Renshaw	639,771	Dec. 26	2936	676	89	2498
Molder's chaplet	F. C. Lovejoy	636,438	Nov. 7	352	79	89	992
Molder's-flask clamp	H. C. Cooper	632,251	Sept. 5	76	17	88	1722
Molding and vulcanizing apparatus	H. J. Doughty	620,233	Feb. 28	2628	598	86	1375
Molding apparatus	S. J. Adams	631,493	Aug. 22	3279	746	88	1420
Molding apparatus	F. Andreas	636,481	Nov. 7	431	95	89	1008
Molding apparatus	F. Kepp and G. Mesta	627,933	June 27	3198	700	87	2298
Molding apparatus	N. Shaw	627,538	June 27	2471	544	87	2151
Molding apparatus. Sand-	S. J. Adams	631,494	Aug. 22	3282	747	88	1420
Molding for electric wires, &c	M. and D. W. Chase	628,696	July 11	1428	332	88	297
Molding-machine	H. C. Cooper	632,242	Sept. 5	23	6, 7, 8, 9, 10, 11	88	1713
Molding-machine	A. Dickey	621,801	Mar. 28	2351	527	86	1997
Molding-machine	F. O. Farwell	618,080	Jan. 24	2334	520, 521, 522	86	508
Molding-machine	T. H. Furlow	630,212	Aug. 1	892	195, 196	88	898
Molding-machine	G. Weiss	621,189	Mar. 14	1219	267	86	1750
Molding-machine. Centrifugal	J. Graner	635,770	Oct. 31	3358	776	89	722
Molding-machine chaplet-adjuster	H. C. Cooper	632,246	Sept. 5	70	16	88	1721
Molding-machine flask	H. C. Cooper	632,248	Sept. 5	73	16	88	1721
Molding-machine mold	H. C. Cooper	632,249	Sept. 5	74	17	88	1721
Molding-machine pattern	H. C. Cooper	632,247	Sept. 5	71	16	88	1721
Molding machine. Sand-	H. C. Cooper	632,243	Sept. 5	51	11, 12, 13, 14	88	1718
Molding-machine sand-delivery mechanism	H. C. Cooper	632,250	Sept. 5	75	17	88	1722
Molding-machine sand-reservoir	H. C. Cooper	632,244	Sept. 5	62	14, 15	88	1719
Molding-machine sprue mechanism	H. C. Cooper	632,245	Sept. 5	65	15, 16	88	1720
Molding, ornamenting, and graining machine. Combined	C. E. Seckford	626,305	June 6	158	38	87	1641
Molding. Picture-	W. H. Cowl	630,185	Aug. 1	850	182	88	890
Molding. Picture-	G. F. Drew	628,140	July 4	346	82	88	70
Molding-press	L. Malchow and J. Marble	624,835	May 9	1637	370, 371	87	1041
Molding purposes. Composition of matter for	R. Platz	629,600	July 25	3073	------	88	653
Momentum of moving bodies. Apparatus for utilizing	F. Burger	639,706	Dec. 26	2809	648	89	2471
Money. Apparatus for paying out	L. Lindelöf	619,321	Feb. 14	990	223, 224	86	1023
Money assorter and counter	V. Leto	632,054	Aug. 29	4303	967	88	1630
Money holder and changer	G. T. Farnell	628,401	July 4	843	197, 198	88	161
Money-order-blank protector, cutter, and hand-rest	G. Johnson	632,153	Mar. 28	3001	678	86	2125
Monkey-wrench	M. D. Converse	618,245	Jan. 24	2658	588	86	567
Monkey-wrench	M. D. Converse	623,946	Apr. 25	3235	745	87	677
Monkey-wrench	J. K. Daniels	619,546	Feb. 14	1364	314	86	1096
Monkey-wrench	R. F. Downey	633,578	Sept. 26	2602	609	88	2259
Monkey-wrench	T. Jensen	639,812	Dec. 26	3016	694	89	2513
Monkey-wrench	J. Stynsberg	621,869	Mar. 28	2476	553	86	2023
Monocycle	L. Schutte	627,596	June 27	2594	571, 572	87	2176
Monoline type composing and casting machine	W. E. Bertram	622,989	Apr. 11	1439	332, 333, 334	87	294
Monorailway system	L. Beecher	628,174	July 4	406	95, 96	88	82
Monument	J. D. Jarrett	627,424	June 20	2260	499	87	2093
Monument. Mortuary	W. A. Hawthorne	631,890	Aug. 29	4003	896	88	1572
Monuments. Construction of	H. Campbell	623,943	Apr. 25	3225	743	87	675
Mooring device	F. B. Langston	631,168	Aug. 15	2684	606	88	1283
Mop	V. Winquist	639,479	Dec. 19	2394	551	89	2370
Mop and brush holder. Combined	J. H. Wray	625,628	May 23	3032	690	87	1352
Mop-handle	O. W. Bradford	623,763	Apr. 25	2847	652	87	602
Mop-handle	E. Dobbins	627,746	June 27	2862	626	87	2229
Mop-head	W. S. Harper	634,138	Oct. 3	295	75	89	62
Mop-head	A. Miller	636,544	Nov. 7	552	121	89	1032

Alphabetical list of inventions—Continued.

Invention.	Name.	No.	Date.	Monthly volume. Spec.	Monthly volume. Dr'g.	Official Gazette. Vol.	Official Gazette. Page.
Mop-head	C. M. Williams	635,216	Oct. 17	2293	535	89	486
Mop head and wringer. Combined	E. Gahlau	631,250	Aug. 15	2833	639	88	1314
Mop head and wringer. Combined	H. J. Gleason	621,654	Mar. 21	2053	458	86	1924
Mop head or holder	J. J. Carter	623,884	Apr. 25	3115	717	87	655
Mop-holder	G. E. De Groat and H. Henning	619,547	Feb. 14	1365	314	86	1096
Mop or brush holder	H. C. Woodworth	638,539	Dec. 5	666	139	89	1993
Mop-wringer	E. Bonnlender and A. Herkert	626,267	June 6	80	20	87	1630
Mop-wringer	A. M. Burnham	619,664	Feb. 14	1579	360	86	1135
Mop-wringer	E. E. Miller	618,515	Jan. 31	3173	700	86	679
Mop-wringer	L. Moon	621,269	Mar. 14	1359	302	86	1778
Mop-wringer	S. Samson	632,374	Sept. 5	298	69	88	1766
Mop-wringer	W. Van Galen	621,481	Mar. 21	1748	389	86	1865
Morphin. Making alkyl-ethers of	A. Ehrenberg	629,433	July 25	2751	------	88	592
Morphin. Making alkyl-ethers of	E. Kauder	623,789	Apr. 25	2943	------	87	621
Morphin. Making alkyl-ethers of	E. Kauder	626,910	June 13	1315	------	87	1887
Morphin. Making ethyl	F. J. von Mering	629,264	July 18	2433	------	88	508
Mortar or grout mixing machine	C. A. Grannell	621,071	Mar. 14	1007	221	86	1708
Mortises in ends of bamboos or other round rods. Apparatus for forming curved	E. Frampton	627.916	June 27	3166	693	87	2292
Mortising-machine	W. D. Herschel	630,538	Aug. 8	1568	350	88	1041
Mortising-machine. Chain	R. S. Brown	621,026	Mar. 14	937	204, 205	86	1695
Mortising machine. Lock-	J. E. Dearborn	631,202	Aug. 15	2734	619	88	1295
Mortising machine. Lock-	G. H. Heady	629,294	July 18	2481	578, 579	88	517
Mortising-machines. Boring attachment for	L. W. Greenleaf	629,787	Aug. 1	46	12	88	730
Mosaic	T. Pfister	627,307	June 20	2009	442	87	2044
Mosaic enamel. Imitation	P. E. L. Perdrizet	631,490	Aug. 22	3276	745	88	1419
Mosaics. Die for making	A. Travaglini	625,070	May 16	2043	459	87	1136
Motion and power transmitting mechanism	A. C. Tanner	632,952	Sept. 12	1405	325	88	1999
Motion. Apparatus for reproducing	A. Franke	633,690	Sept. 26	2822	656	88	2300
Motion-converting mechanism	W. Hay	624,931	May 16	1816	407	87	1093
Motion. Device for transmitting	J. G. Wagner, Jr., and H. S. Searle	618,922	Feb. 7	195	42	86	843
Motion. Device for transmitting	J. H. Whiting	625,003	May 16	1925	431	87	1115
Motion. Machine for transferring differential	D. H. B. Hooper	628,094	July 4	255	60	88	51
Motion. Means for transmitting	B. Loutzky	637,515	Nov. 21	2478	537	89	1455
Motion. Mechanism for producing composite rotary	C. M. Hollingsworth	631,306	Aug. 22	2941	665	88	1352
Motion. Mechanism for producing reciprocating	S. W. Luitwieler and M. L. Wilkinson.	629,039	July 18	2035	474	88	434
Motion-reversing and speed-changing mechanism	J. C. des Granges	637,202	Nov. 14	1892	406	89	1323
Motion-reversing mechanism	R. Ewing	636,969	Nov. 14	1417	304	89	1233
Motive engine	A. Howard	617,529	Jan. 10	1270	288	86	268
Motive fluids. Art of and apparatus for transforming energy of	N. Nilsson	638,266	Dec. 5	115	27, 28	89	1888
Motive-power mechanism	M. L. Wilkinson	624,594	May 9	1189	268, 269	87	953
Motive power. Method of and apparatus for generating	G. M. Westman	634,155	Oct. 3	318	80, 81	89	66
Motor:							
See Boat-motor.							
Churn-motor.							
Combustion-motor.							
Current-motor.							
Electric motor.							
Electric traction-motor.							
Explosive-motor.							
Fan-motor.							
Fluid-actuated motor.							
Fluid-pressure motor.							
Gas-motor.							
Gravity-motor.							
Hydraulic motor.							
Hydrocarbon-motor.							
Ice-motor.							
Induction-motor.							
Internal-combustion motor.							
Mechanical motor.							
Oscillating motor.							
Petroleum or similar motor.							
Railway-motor.							
Rotary motor.							
Rotary steam-motor.							
Rotative motor.							
Spring-motor.							
Tide-motor.							
Tool-motor.							
Turbine motor.							
Vehicle-motor.							
Water-motor.							
Wave-motor.							
Wave-power motor.							
Wind-motor.							
Motor	C. M. Bell	617,222	Jan. 3	683	158	86	133
Motor	R. Creuzbaur	623,137	Apr. 18	1739	402	87	366
Motor	E. L. Garvey	631,711	Aug. 22	3680	825	88	1498
Motor	E. S. Pillsbury and F. Schwedtmann.	620,609	Mar. 7	105	20, 21	86	1523
Motor	G. M. Stock	630,422	Aug. 8	1352	301	88	1000
Motor	C. L. Wilkins	620,204	Feb. 28	2587	588	86	1368
Motor apparatus	J. E. Tyler	631,238	Aug. 15	2790	633	88	1306
Motor control	A. H. Whiting	629,837	Aug. 1	152	36	88	750
Motor-controller	M. K. Bowen and G. W. Knox	627,471	June 27	2350	517, 518	87	2127
Motor-engine	F. Hayot	623,713	Apr. 25	2775	635	87	588
Motor mechanism	J. A. Hafner	620,916	Mar. 14	703	154, 155	86	1651
Motor-meter for three-phase currents	G. Hummel	633,695	Sept. 26	2828	657	88	2302
Motor speed-regulator	C. A. Dresser	618,071	Jan. 24	2324	518	86	506
Motor-wheel. Revolving-piston	F. Burger	630,029	Aug. 1	572	125, 126	88	836
Motors. Apparatus for controlling operation of	C. E. Woods	620,628	Mar. 7	145	30	86	1530
Motors. Apparatus for indicating direction of rotation of	H. Kähler	637,873	Nov. 28	3521	737	89	1722
Motors. Means for speed reduction of asynchronous alternating	K. E. F. Knauth	621,924	Mar. 28	2584	582, 583	86	2041
Motors. Means for suspending	S. H. Short	620,257	Feb. 28	2673	613	86	1385
Motoric force. Means for converting heat into	P. Irgens and G. M. Brun	617,022	Jan. 3	303	67, 68	86	61
Mouse-trap	J. A. Hunter and H. Y. Armstrong.	619,754	Feb. 21	1760	403	86	1196
Movement-transmitting apparatus	C. R. Woodward	620,819	Mar. 7	520	111	86	1604
Moving-harness	C. and W. C. Colteryahn	618,333	Jan. 24	2809	623	86	596

Alphabetical list of inventions—Continued.

Invention.	Name.	No.	Date.	Monthly volume.		Official Gazette.	
				Spec.	Dr'g.	Vol.	Page.
Mower	E. A. Johnston	632,219	Aug. 29	4617	1040, 1041	88	1691
Mower and reaper cutting apparatus	H. L. Hopkins	638,715	Dec. 12	1006	225, 226	89	2082
Mower attachment	W. Gaterman	627,931	June 27	3193	699	87	2297
Mower grass-catcher. Lawn-	W. J. Brennan	639,346	Dec. 19	2133	490	89	2318
Mower grass-catcher. Lawn-	E. Campbell and C. B. Woodworth	621,445	Mar. 21	1671	370	86	1850
Mower grass-catcher. Lawn-	O. A. Young	617,006	Jan. 3	272	61	86	54
Mower-guard	J. C. Prout, Jr	622,535	Apr. 4	638	150	87	121
Mower. Lawn-	J. Broderick	620,098	Feb. 28	2385	540	86	1331
Mower. Lawn-	J. A. Burr	624,749	May 9	1459	329	87	1007
Mower. Lawn-	R. Cameron	632,173	Aug. 29	4528	1020	88	1675
Mower. Lawn-	T. Coldwell	617,671	Jan. 10	1531	348	86	318
Mower. Lawn-	A. M. Cornelius	621,901	Mar. 28	2543	574	86	2034
Mower. Lawn-	L. T. Feerer	633,643	Sept. 26	2731	636	88	2282
Mower. Lawn-	R. Friend and L. S. Ray	629,990	Aug. 1	493	107	88	820
Mower. Lawn-	J. Gomes	624,789	May 9	1530	348	87	1021
Mower. Lawn-	F. Heinz	635,889	Oct. 31	3608	831	89	772
Mower. Lawn-	E. A. Landon	619,192	Feb. 7	754	163	86	959
Mower. Lawn-	W. P. Leshure	617,584	Jan. 10	1379	313	86	287
Mower. Lawn-	F. T. Maynard	623,121	Apr. 11	1711	395	87	346
Mower. Lawn-	E. A. Miller	625,584	May 23	2951	671	87	1336
Mower. Lawn-	W. Newby	637,649	Nov. 21	3095	640, 641	89	1616
Mower. Lawn-	M. C. Sather	623,040	Apr. 11	1539	356	87	314
Mower. Lawn-	J. Wright	620,067	Feb. 21	2329	529	86	1305
Mower roller-bearing. Lawn-	E. W. McGuire	638,262	Dec. 5	111	26	89	1887
Mower windrowing attachment	J. E. Mustard	622,061	Mar. 28	2829	637	86	2090
Mowers. Adjustable ball-bearing for lawn-	H. Deck	637,987	Nov. 28	3721	783	89	1761
Mowers. Ball-bearing-adjusting device for lawn-	A. B. Case	630,033	Aug. 1	582	127	88	838
Mowing-machine	J. A. Allen	639,335	Dec. 19	2117	487	89	2316
Mowing-machine	G. Chapman	620,697	Mar. 7	294	59	86	1559
Mowing-machine	M. E. Hayes	637,932	Nov. 28	3626	760	89	1743
Mowing-machine	H. L. Hopkins	638,714	Dec. 12	1003	225	89	2081
Mowing-machine	M. Kane	628,248	July 4	548	132	88	108
Mowing-machine	H. E. Pridmore	632,061	Aug. 29	4321	971	88	1632
Mowing-machine	S. and J. Shull	618,443	Jan. 31	3042	673	86	654
Mowing-machine	D. Sincock	620,857	Mar. 7	598	129, 130	86	1620
Mowing-machine	D. Sincock	632,375	Sept. 5	299	69	88	1766
Mowing-machine	J. M. Stewart, C. V. Denman, and C. F. Worth.	635,983	Oct. 31	3782	871, 872	89	806
Mowing-machine	W. H. Williams	636,190	Oct. 31	4195	963	89	889
Mowing-machine attachment	J. Mussell	625,981	May 30	3702	841	87	1499
Mowing-machine attachment or hay-gatherer	E. F. Isgrig	631,794	Aug. 29	3852	858	88	1541
Mowing-machine cutting apparatus	L. J. W. H. Giffhorn	621,562	Mar. 21	1899	424	86	1893
Mowing-machine cutting-bar	J. B. Hill	635,321	Oct. 24	2478	576	89	538
Mowing-machine. Front-cut	P. F. Hodges	624,334	May 2	716	158	87	837
Mowing-machine. Front-cut	P. F. Hodges. (Reissue)	11,785	Nov. 7	973	209	89	1128
Mowing-machine gathering attachment	R. L. Everett	639,220	Dec. 19	1897	437	89	2268
Mowing machine. Lawn-	C. H. Gorr	625,669	May 23	3096	704	87	1364
Mucilage-holder	W. H. Redington	625,517	May 23	2837	646	87	1313
Mucilage-holder	C. W. Taylor	635,204	Oct. 17	2268	528	89	481
Mud-guard	S. Dunlop and G. H. Oatway	626,018	May 30	3813	867	87	1520
Mud-guard	O. Peterson	617,836	Jan. 17	1870	418	86	403
Muff-lining	M. Maguire	629,579	July 25	3032	708	88	646
Muffler. Exhaust-	L. S. Gardner	620,867	Mar. 7	619	135	86	1624
Mule. Self-acting	J. Ramsden, A. Taylor, and E. Firth	617,048	Jan. 3	372	90, 91	86	71
Mule. Self-acting	J. Ramsden, A. T. Taylor, and J. Ramsden.	626,094	May 30	3957	899	87	1545
Multiphone	J. A. Irving	637,261	Nov. 21	2003	429	89	1360
Multispace	P. F. Cox	631,062	Aug. 15	2498	566	88	1248
Municipal signal	E. Davis	620,703	Mar. 7	305	62	86	1560
Music-ball	J. Stein	620,087	Feb. 21	2362	535	86	1311
Music-box	L. D. Markle	624,955	May 16	1849	416	87	1099
Music-box and exchangeable music-disk	M. Schluss	638,525	Dec. 5	644	133, 134	89	1989
Music-box. Note-disk	G. A. Brachhausen	637,367	Nov. 21	2217	477	89	1404
Music-box sounding and damping mechanism	M. Schluss	638,524	Dec. 5	643	132, 133	89	1989
Music-box with interchangeable music-disks. Automatic	E. Breslauer	626,482	June 6	488	113	87	1708
Music-boxes. Detent device for winding mechanism of	J. Natterer	621,845	Mar. 28	2426	542	86	2012
Music-boxes. Device for tripping vibrating tongues of mechanical	A. Junod	629,259	July 18	2426	562	88	507
Music-boxes. Support for star-wheels of	J. Natterer	621,844	Mar. 28	2425	541	86	2012
Music-cabinet	J. T. Phillips	632,925	Sept. 12	1365	315	88	1990
Music-holder	F. C. Luethi	617,588	Jan. 10	1384	314	86	288
Music-holder	J. Moore	637,641	Nov. 21	3080	636	89	1613
Music holder and turner	C. Yager	619,063	Feb. 7	506	106, 107	86	909
Music holder and turner	A. V. and J. T. Zika	633,710	Sept. 26	2855	664	88	2307
Music-leaf holder and turner	T. F. Moss	628,411	July 4	858	202	88	165
Music-leaf turner	W. L. Caywood	621,991	Mar. 28	2717	613, 614	86	2067
Music-leaf turner	B. Deja	636,426	Nov. 7	337	76	89	989
Music-leaf turner	T. L. Foust	637,504	Nov. 21	2458	534	89	1451
Music-leaf turner	R. Hammond	626,692	June 13	870	197	87	1802
Music-leaf turner	A. G. Lamb	620,043	Feb. 21	2293	520, 521	86	1298
Music-leaf turner	J. R. Lilley	636,437	Nov. 7	351	79	89	992
Music-leaf turner	G. A. Robbins	639,613	Dec. 19	2617	601, 602	89	2416
Music-leaf turner	A. E. Smith	617,364	Jan. 10	963	221	86	207
Music-leaf turner	H. E. Swarts	634,279	Oct. 3	582	144	89	116

Alphabetical list of inventions—Continued.

Invention.	Name.	No.	Date.	Monthly volume.		Official Gazette.	
				Spec.	Dr'g.	Vol.	Page.
Music-leaf turner	J. D. Weaver	627,553	June 27	2501	550	87	2157
Music-leaf turner	J. S. Webster	619,853	Feb. 21	1960	445	86	1236
Music-leaf-turning apparatus	W. J. Pitt	634,995	Oct. 17	1868	443	89	405
Music rack and holder. Adjustable	J. B. Henry	628,319	July 4	708	164	88	136
Music rack and leaf-turner. Sheet-	G. E. Scott	626,192	May 30	4178	950	87	1585
Music-rolling and tempo-regulating mechanism	H. A. Herr	622,680	Apr. 11	912	210	87	192
Music-sheets of self-playing instruments. Mechanism for driving	F. W. Hedgeland	629,361	July 25	2623	609	88	565
Music-stand. Portable	C. Meister	634,533	Oct. 10	1053	250	89	228
Musical instrument	K. B. Anderson	636,232	Nov. 7	1	1	89	925
Musical instrument	B. E. Benhardus	638,000	Nov. 28	3759	789	89	1768
Musical instrument	C. E. Brown	627,569	June 27	2528	556	87	2162
Musical instrument	S. G. Cook	621,900	Mar. 28	2540	573	86	2084
Musical instrument	R. W. Everton and W. Frost	625,663	May 23	3087	702	87	1362
Musical instrument	E. Gable	635,312	Oct. 24	2463		89	535
Musical instrument	A. Goetz	618,539	Jan. 31	3211	712	86	687
Musical instrument	A. C. Jaccard	629,257	July 18	2424	561	88	506
Musical instrument	A. H. Jacot	624,655	May 9	1296	289	87	973
Musical instrument	I. H. Sapp	635,192	Oct. 17	2242	522, 523	89	477
Musical instrument	N. Sullo	632,855	Sept. 12	1226	281	88	1966
Musical instrument	J. A. Weser	638,082	Nov. 28	3894	820	89	1795
Musical instrument. Automatic	M. S. Wright	634,601	Oct. 10	1171	278, 279	89	250
Musical instrument. Automatic	M. S. Wright	638,615	Dec. 5	808	174, 175	89	2021
Musical instrument. Automatic mechanical	G. A. Brachhausen	621,025	Mar. 14	922	200, 201, 202, 203	86	1692
Musical-instrument bellows	E. S. Votey	636,594	Nov. 7	642	141	89	1052
Musical-instrument-damping device	A. Vernaz	618,151	Jan. 24	2485	552	86	536
Musical-instrument key-button	O. W. Snedeker	637,756	Nov. 21	3295	688	89	1657
Musical-instrument key mechanism	A. J. Smith	633,915	Sept. 26	3197	745	88	2377
Musical instrument. Mechanical	F. Gronau	627,999	July 4	79	15,16	88	17
Musical instrument. Mechanical	T. A. Plessing	621,372	Mar. 21	1554	344, 345	86	1828
Musical instrument. Mechanical	W. H. Rollins	621,289	Mar. 14	1400	311	86	1786
Musical instrument. Stringed	F. Menzenhauer	633,876	Sept. 26	3131	727	88	2363
Musical instrument. Stringed	F. L. Patch	636,692	Nov. 7	836	186	89	1092
Musical instrument. Stringed	F. Stroh	631,188	Aug. 15	2711	614	88	1290
Musical instrument. Stringed	J. S. Young	625,996	May 30	3731	846	87	1594
Musical-instrument tailpiece. Stringed-	G. F. Wells	617,915	Jan. 17	2030	454	86	434
Musical-instrument tuning-peg	R. E. Martin	631,118	Aug. 15	2601	587	88	1267
Musical instruments. Adjustable extension-rod for violoncellos or other	D. E. Whitton	620,393	Feb. 28	2904	666	86	1430
Musical instruments. Damper for mechanical	G. Hensch	619,887	Feb. 21	2025	460	86	1248
Musical instruments. Device for stringed	W. S. Reed	628,851	July 11	1695	395, 396	88	351
Musical instruments. Electric action for	W. B. Fleming	621,963	Mar. 28	2659	599, 600	86	2056
Musical instruments. Note-disk holder for mechanical	E. Breslauer	623,878	Apr. 25	3106	715, 716	87	653
Musical instruments. Self-playing attachment for	T. P. Brown	634,872	Oct. 17	1655	390	89	362
Musical instruments. Take-up spool and raceway for mechanical	P. Welin	637,540	Nov. 21	2529	548	89	1464
Musical instruments. Tempo indicator and governor for	J. H. Chase	638,955	Dec. 12	1421	325	89	2164
Musical-scale ladder	E. A. Fletcher	619,294	Feb. 14	947	215	86	1014
Musician's finger-strengthener	V. M. Griffin	638,632	Dec. 5	838	182	89	2027
Musician's wire-cutting device	C. W. McCarter	626,334	June 6	214	52	87	1654
Mustache-guard for spoons	G. A. Ring	621,944	Mar. 28	2620	590	86	2048
Mustard-mill	P. Faust	631,931	Aug. 29	4070	914	88	1584
Mute	L. Glasser	632,407	Sept. 5	356	81	88	1776
Muzzle. Animal-	J. R. Reynolds	619,994	Feb. 21	2197	500	86	1280
Nail: *See* Horseshoe-nail.							
Nail	H. L. W. Button	621,222	Mar. 14	1284	284	86	1764
Nail	C. S. Farrow	638,386	Dec. 5	382	80	89	1939
Nail	W. L. Horne	639,984	Dec. 26	3324	762	89	2575
Nail	B. Schnitzler	630,747	Aug. 8	1915	432	88	1108
Nail-cutting machine	W. N. Severance	626,774	June 13	1018	230, 231	87	1830
Nail-distributer	R. and P. Dineson	626,987	June 13	1444	317	87	1912
Nail-extractor	H. Judy	636,147	Oct. 31	4114	941	89	872
Nail-forming machine	S. L. Reed	625,804	May 30	3373	765, 766	87	1435
Nail, hook, or staple	H. Traun	617,064	Jan. 3	397	97	86	77
Nail-machine	C. A. Dixon	631,203	Aug. 15	2737	619, 620	88	1295
Nail-making machine	J. N. Gifford	637,381	Nov. 21	2246	483	89	1410
Nail-making machine	G. Goddu	616,918	Jan. 3	96	21,22	86	21
Nail-making machine	E. P. Parsons	631,323	Aug. 22	2969	671, 672	88	1358
Nail or spike drawing device	O. E. Martin	619,325	Feb. 14	995	225	86	1025
Nails. Method of and apparatus for cleaning	A. L. Starke	631,133	Aug. 15	2623	594	88	1272
Nailing implement. Hand	E. F. Grandy	618,085	Jan. 24	2351	525	86	511
Nailing-machine	E. T. Freeman	618,082	Jan. 24	2343	524, 525	86	509
Nailing-machine	F. Lee	618,695	Jan. 31	3489	779, 780	86	741
Nailing-machine	J. Ljung	633,764	Sept. 26	2943	683, 684	88	2325
Nailing-machine	H. W. Morgan	619,901	Feb. 21	2046	464	86	1252
Nailing-machine	S. Y. Penrod	635,181	Oct. 17	2228	519	89	474
Nailing-machine	A. I. Sandbo	622,638	Apr. 4	824	191	87	156

Alphabetical list of inventions—Continued.

Invention.	Name.	No.	Date.	Monthly volume. Spec.	Monthly volume. Dr'g.	Official Gazette. Vol.	Official Gazette. Page.
Nailing machine. Box	L. F. Grammes	635,540	Oct. 24	2926	668, 669, 670	89	626
Nailing-machines. Automatic feeding device for	W. R. Boss	622,661	Apr. 11	879	201, 202	87	187
Name-plate	W. H. Clark and L. J. Wattson	620,419	Feb. 28	2945	675	86	1436
Name-plate. Bicycle	C. Holyland and C. G. Dice	622,687	Apr. 11	928	213	87	196
Naphtha-retort safety device	J. V. Rice, Jr	624,094	May 2	277	57	87	754
Napkin-holder	A. R. Ball	621,762	Mar. 21	2272	512	86	1967
Napkin-holder	W. I. Schryver	629,212	July 18	2349	545	88	493
Napping-machine	D. Gessner	636,402	Nov. 7	291	65, 66	89	979
Napping-machines. Apparatus for use in connection with	L. Schneider	633,664	Sept. 26	2768	643	88	2290
Necktie	C. Goldthwait	617,736	Jan. 17	1662	375	86	363
Necktie	O. Hammerstein	623,958	Apr. 25	3254	749	87	681
Necktie	E. Heyman	628,583	July 11	1193	279	88	250
Necktie	W. E. McKee	623,378	Apr. 18	2183	501	87	455
Necktie	G. Selowsky	633,047	Sept. 12	1567	364	88	2030
Necktie attachment	H. E. Ebert and H. G. Seefeld	621,499	Aug. 22	3295	749	88	1423
Necktie-fastener	C. Breves and E. Capouch	638,660	Dec. 5	882	193	89	2037
Necktie-fastener	S. Collins	635,747	Oct. 31	3319	766	89	715
Necktie-fastener	E. J. Hartman	639,172	Dec. 12	1789	415	89	2235
Necktie-fastener	J. O. Hunt	636,996	Nov. 14	1486	319	89	1247
Necktie-fastener	A. F. James	630,708	Aug. 8	1854	419	88	1096
Necktie-fastener	W. M. S. Miller	622,963	Apr. 11	1406	323	87	287
Necktie-fastener	J. Rommel	628,118	July 4	303	72	88	61
Necktie-fastener	L. Schuck	620,677	Mar. 7	248	51	86	1550
Necktie-fastener	V. T. Van Slyke	631,730	Aug. 22	3720	835	88	1506
Necktie-fastener	B. F. Wooding	634,600	Oct. 10	1170	278	89	250
Necktie-fastener	H. Ziegler	627,56[illegible]	June 27	2524	555	87	2161
Necktie-frame	M. L. Hawks	631,714	Aug. 22	3684	826	88	1499
Necktie-holder	J. M. Barrett	617,709	Jan. 17	1614	363	86	353
Necktie-holder	A. C. Cruttwell	635,371	Oct. 24	2573	598	89	557
Necktie-holder	W. I. Goodin	625,160	May 16	2202	499	87	1165
Necktie-holder	H. A. Littig	625,889	May 30	3535	803	87	1466
Necktie-holder	G. A. Pond	637,823	Nov. 28	3418	714	89	1701
Necktie-holder and collar-button. Combined	W. R. Austin and W. N. Craw	616,876	Jan. 3	8	2	86	4
Necktie-retainer	G. Quick	634,957	Oct. 17	1785	424	89	387
Neckwear-fastening device	E. M. Wickersham	636,600	Nov. 7	649	143	89	1053
Neckwear-retainer	J. A. Flomerfelt and L. A. W. Lund	633,581	Sept. 26	2624	614	88	2262
Needle	S. S. Roszell	619,229	Feb. 7	814	178	86	972
Needle	S. S. Roszell	622,080	Mar. 28	2857	644	86	2096
Needle	W. H. Stewart and A. N. Ames	621,950	Mar. 28	2629	592	86	2049
Needle	C. A. Whitney	634,655	Oct. 10	1264	299	89	269
Needle. Tape	G. J. Kindel	636,728	Nov. 7	912	202	89	1109
Needle. Tape	I. W. Penney	618,365	Jan. 24	2866	636	86	607
Needle-threader	H. M. Childers	638,701	Dec. 12	985	219	89	2078
Needle-threader	J. Darling	620,540	Feb. 28	3166	725, 726	86	1479
Needle-threader	J. Darling	633,080	Sept. 12	1615	376	88	2041
Negative rack	J. W. Meaker, Jr	632,876	Sept. 12	1289	296	88	1975
Neostyle. Cylindrical	J. W. Campbell	637,764	Nov. 28	3308	691, 692	89	1677
Nest-box	J. P. Heck	635,932	Oct. 31	3677	848	89	784
Nest box. Poultry	G. I. Lytle	621,499	Mar. 21	1781	396, 397	86	1870
Nest for fowls	W. F. Maurer	619,595	Feb. 14	1438	332	86	1108
Nest. Hen's	L. N. Nichols	627,652	June 27	2695	591	87	2196
Nest. Hen's	J. B. Williams	626,119	May 30	4031	920	87	1556
Nest. Hen's	A. D. Worley	622,407	Apr. 4	372	85	87	69
Nest. Hen's	R. E. Zearfoss	634,051	Oct. 3	117	30	89	27
Nesting-box	J. Herfert	625,975	May 30	3693	839	87	1497
Net. Fly	J. Wittmann	624,885	May 9	1720	389	87	1057
Net. Trawl	J. W. Pearson. (Reissue)	11,717	Feb. 14	1675	384	86	1155
Netting	I. S. Adams	621,890	Mar. 28	2525	568	86	2031
Netting	I. S. Adams	621,891	Mar. 28	2526	568	86	2031
Netting. Rope	W. H. Swift	631,910	Aug. 29	4031	903	88	1577
Newspaper folding and wrapping machine	T. Wolfe	628,509	July 11	1039	243, 244, 245	88	220
Newspaper-holder	J. Bruhns	619,068	Feb. 7	513	108	86	910
Newspaper or like holder	G. Witt	625,231	May 16	2323	529	87	1189
Newspapers, &c. Holder for	W. A. Smith	632,155	Aug. 29	4499	1013	88	1670
Nicotin. Extracting	F. D Banning	620,406	Feb. 28	2925	------	86	1433
Nicotin. Extracting	R. Mackill	623,798	Apr. 25	2954	675	87	624
Night-soil, &c. Apparatus for destruction of	J. H. Mitchell, H. G. Downton, and W. H. Nicholls.	617,254	Jan. 3	745	173, 174	86	147
Nippers	W. A. Bernard	635,417	Oct. 24	2709	621	89	583
Nippers. Cutting	L. S. Starrett	637,177	Nov. 14	1839	393	89	1313
Nippers. Police	L. F. Maltby	636,439	Nov. 7	353	80	89	992
Nipple	J. A. Heany	633,343	Sept. 19	2172	510	88	2161
Nipple-holder	T. Borcher	635,226	Oct. 17	2308	538	89	489
Nipple-holder	E. L. Fox	619,553	Feb. 14	1375	316	86	1098
Nipple. Nursing	C. Catlett	639,148	Dec. 12	1747	404	89	2227
Nipple-turning device	W. A. Pratt	620,251	Feb. 28	2663	608	86	1383
Nipple-washers. Machine for forming	W. R. Fox	636,655	Nov 7	772	168, 169	89	1078
Nipple-wrench	J. C. Nicol	624,849	May 9	1660	375	87	1046
Nipple-wrench	H. J. O'Leary	628,414	July 4	864	203	88	166
Nitrobenzaldehyde. Obtaining ortho or para	B. Homolka and A. Stock	636,994	Nov. 14	1483	------	89	1247
Nitrobenzylanilin. Obtaining	B. Homolka and A. Stock	636,043	Oct. 31	3889	------	89	827
Nitrocellulose product. Uninflammable	L. L. Béthisy	625,313	May 23	2485	------	87	1245
Nitro-explosives. Making	A. Moffatt	627,436	June 20	2282	------	87	2098
Noodle-machine	C. Buerk	625,739	May 30	3232	734	87	1408
Nose-screen	S. M. McHatton	628,111	July 4	296	70	88	59
Note-disk rack	F. C. Kasik	628,943	July 18	1869	433	88	401

Alphabetical list of inventions—Continued.

Invention.	Name.	No.	Date.	Monthly volume.		Official Gazette.	
				Spec.	Dr'g.	Vol.	Page.
Notice and advertisement apparatus	A. Weissmann	639,799	Dec. 26	2990	688	89	2509
Notion-box	H. O. Hyatt	626.067	May 30	3905	887	87	1535
Nozzle	H. H. Gorter	627,777	June 27	2910	637	87	2239
Nozzle	S. M. Stevens	621,480	Mar. 21	1746	389	86	1864
Nozzle and sprayer. Combined	G. F. Wentz	623,057	Apr. 11	1561	361	87	319
Nozzle. Charging-	J. Craig, Jr	619,282	Feb. 14	924	209	86	1009
Nozzle. Exhaust-	W. Mattews and G. Andricht	624,062	May 2	203	45	87	742
Nozzle or faucet	P. S. Rogers	618,188	Jan. 24	2563	567	86	550
Nozzle. Spray-	J. E. Armitstead	621,514	Mar. 21	1808	402	86	1875
Nozzle. Spray-	P. J. Haas and C. D. Huber	618,412	Jan. 31	2990	662	86	646
Nozzle. Spraying-	J. W. Luttrell	622,245	Apr. 4	77	18	87	18
Nozzle. Spraying-	W. W. Randolph	625,466	May 23	2747	625	87	1294
Nozzle. Variable exhaust-	W. E. Symons	628,369	July 4	786	{182 {183	88	151
Nozzle. Water-	H. F. Neumeyer and J. F. Young	617,472	Jan. 10	1170	267	86	247
Nuclein and mercury. Compound of	K. Schwickerath	637,355	Nov. 21	2195	------	89	1399
Nuclein from yeast. Extracting	K. Schwickerath	637,353	Nov. 21	2193	------	89	1399
Numbering-machine	W. W. Sawyer	617,052	Jan. 3	379	93	86	73
Numbering-machine	W. W. Sawyer	639,908	Dec. 26	3170	730	89	2542
Numbering-punch	W. M. Price	628,846	July 11	1684	393	88	349
Nurling-machine	J. N. Halifax	625,726	May 23	3188	{724 {725	87	1382
Nurling-tool	T. H. Miller	632,358	Sept. 5	267	63	88	1760
Nurling-wheel tool	R. C. Wagner	622,987	Apr. 11	1438	332	87	294
Nursery-chair	W. H. Weston	637.911	Nov. 28	3588	751	89	1736
Nursery-chair. Convertible	S. A. Hovey	631,076	Aug. 15	2530	573	88	1254
Nut	T. L. Paine	633,212	Sept. 19	1907	449	88	2110
Nut. Adjustable axle-	S. R. Bailey	623,124	Apr. 18	1722	398	87	363
Nut. Adjustable axle-	S. R. Bailey	623,126	Apr. 18	1724	399	87	363
Nut and bolt lock	A. Barr	628,297	July 4	656	153	88	127
Nut and bolt lock	F. B. Ludeling	620,597	Mar. 7	82	16	86	1519
Nut and bolt lock	I. C. Woodward	619,649	Feb. 14	1559	355	86	1132
Nut and pipe wrench	S. J. Dern	633,640	Sept. 26	2727	635	88	2281
Nut and pipe wrench. Combined	L. K. Hollyman and B. Swearingen	620,652	Mar. 7	206	42	86	1541
Nut and washer. Vehicle-axle	W. C. D. Evans	621,301	Mar. 14	1423	314	86	1790
Nut. Axle-	S. M. Ford	622,764	Apr. 11	1047	243	87	219
Nut-butter. Mill for making	J. Lambert	625,400	May 23	2634	599	87	1273
Nut-cracker	A. Baumgarten	634,518	Oct. 10	1025	245	89	222
Nut-cracker. Adjustable	W. H. Edwards	627,401	June 20	2221	490	87	2085
Nut-cracking device	J. Prade	622,262	Apr. 4	108	25	87	24
Nut-cracking machine	H. Claughton	632,216	Aug. 29	4614	1040	88	1690
Nut-finishing machine	J. S. Detrick and F. H. Easby	631,109	Aug. 15	2582	{583 {584	88	1263
Nut finishing or facing machine	G. Dunham	622,334	Apr. 4	238	54	87	45
Nut-lock	F. R. Andress	625,529	May 23	2854	650	87	1316
Nut-lock	H. B. Baumgardner	620,879	Mar. 14	637	140	86	1640
Nut-lock	L. J. Behrer	632,334	Sept. 5	231	54	88	1753
Nut-lock	H. Berschneider	629,647	July 25	3155	735	88	669
Nut-lock	W. C. Bogard	620,219	Feb. 28	2608	592	86	1371
Nut-lock	T. and J. Broadbent	624,448	May 9	922	206	87	902
Nut-lock	J. H. Brookman and C. S. Blackmar	627,568	June 27	2527	556	87	2162
Nut-lock	I. N. Burnham	639,144	Dec. 12	1743	402	89	2226
Nut-lock	R. Campbell	633,093	Sept. 12	1674	394	88	2052
Nut-lock	L. A. Caron	627,323	June 20	2048	451	87	2053
Nut-lock	W. A. Casner	619,137	Feb. 7	651	140	86	939
Nut-lock	J. W. B. Cook	617.672	Jan. 10	1532	348	86	318
Nut-lock	J. W. B. Cook	637,710	Nov. 21	3210	667	89	1639
Nut-lock	R. E. Cooper	619,722	Feb. 21	1708	390	86	1186
Nut-lock	T. W. Crozier	627,953	June 27	3231	708	87	2305
Nut-lock	J. P. Daly	626,271	June 6	88	24	87	1631
Nut-lock	L. H. Dillman	620,748	Mar. 7	405	83	86	1580
Nut-lock	J W. Duty	625,493	May 23	2801	638	87	1306
Nut-lock	J. W. Duty	636,772	Nov. 14	1046	224	89	1160
Nut-lock	H. B. Eareckson	625,026	May 16	1964	440	87	1122
Nut-lock	W. M. Edgington	618,403	Jan. 31	2970	658	86	643
Nut-lock	A. C. Fairfield	632,557	Sept. 5	648	150	88	1835
Nut-lock	W. P. Fink	635,040	Oct. 17	1942	460	89	419
Nut-lock	O. V. Geer	625,667	May 23	3094	704	87	1364
Nut-lock	T. Harding	617,015	Jan. 3	292	65	86	58
Nut-lock	J H. Harnly	620,448	Feb. 28	2993	685	86	1446
Nut-lock	J. J. Harrell	625,501	May 23	2812	641	87	1308
Nut-lock	J. W. Hawle and J. M. Finley	619,255	Feb. 7	863	189	86	981
Nut-lock	R. H. Hemphill	629,995	Aug. 1	506	111	88	823
Nut-lock	A. W Holliday	638,053	Nov. 28	3852	809	89	1787
Nut-lock	R. W. Jamieson	621,456	Mar. 21	1703	376	86	1856
Nut-lock	B. F. Keyser	630,715	Aug. 8	1867	422	88	1099
Nut-lock	J. M. Kissinger	622,895	Apr. 11	1290	297	87	263
Nut-lock	E Ling	632,501	Sept 5	528	121	88	1812
Nut-lock	W Long, Jr	627,938	June 27	3207	702	87	2300
Nut-lock	J. B. Malcom	621,688	Mar. 21	2129	474	86	1940
Nut-lock	R. B. McLean	620,167	Feb. 28	2507	570	86	1354
Nut-lock	J. McNaughton	621,843	Mar. 28	2424	541	86	2012
Nut-lock	F. M. McCartea	636,349	Nov. 7	204	45	89	962
Nut-lock	C. J. Muldoon	623,553	Apr. 25	2501	574	87	537
Nut-lock	S. L Neely	630,919	Aug. 15	2225	507	88	1194
Nut-lock	J. H. Newcomb	633,606	Sept. 26	2669	623	88	2270
Nut-lock	J. O'Leary	632,275	Sept. 5	135	29	88	1734
Nut-lock	J. A. Overall	639,607	Dec. 19	2610	600	89	2415
Nut-lock	J C. Parker	618,436	Jan. 31	3033	671	86	653
Nut-lock	W. W Perkins	624,083	May 2	244	51	87	748
Nut-lock	E. T. Perry	637,483	Nov. 21	2418	525	89	1444
Nut-lock	A. Pope	631,813	Aug. 29	3877	865	88	1546
Nut-lock	J E. Price	625.122	May 16	2143	486	87	1154
Nut-lock	W. J. Purvis	626,093	May 30	3956	899	87	1544
Nut-lock	J. C. Richardson	627,206	June 20	1821	399	87	2006
Nut-lock	S. S. Roszell	638,146	Nov. 28	4047	854	89	1824

Alphabetical list of inventions—Continued.

Invention.	Name.	No.	Date.	Monthly volume. Spec.	Monthly volume. Drg.	Official Gazette. Vol.	Official Gazette. Page.
Nut-lock	J. Saur	630,117	Aug. 1	731	157	88	868
Nut-lock	J. C. Snyder	622,555	Apr. 4	672	157	87	128
Nut-lock	E. J. Schindehütte	632,024	Aug. 29	4250	956	88	1620
Nut-lock	R. A. Schollerer, Jr., and W. Sthal	633,391	Sept. 19	2265	533	88	2178
Nut-lock	F. O. Skelly	629,530	July 25	2951	687	88	631
Nut-lock	B. F. Smith	635,519	Oct. 24	2895	661	89	620
Nut-lock	H. Smith	625,610	May 23	2992	682	87	1344
Nut-lock	B. F. Sparr	637,426	Nov. 21	2322	501	89	1425
Nut-lock	F. G. Stark	637,360	Nov. 21	2206	475	89	1402
Nut-lock	J. A. Stoup	622,728	Apr. 11	983	228	87	206
Nut-lock	R. H. Thompson	634,776	Oct. 10	1475	347	89	310
Nut-lock	E. J. Timmons	638,078	Nov. 28	3888	818	89	1794
Nut-lock	R. Titus	635,361	Oct. 24	2559	595	89	554
Nut-lock	J. G. Vose	640,152	Dec. 26	3616	831	89	2635
Nut-lock	S. Weibel	619,854	Feb. 21	1962	445	86	1237
Nut-lock	G. D. Wing	628,732	July 11	1484	343	88	310
Nut-lock	J. C. Wood	621,512	Mar. 21	1806	401	86	1875
Nut-lock	J. K. Young	622,583	Apr. 4	720	167	87	137
Nut. Lock-	M. P. McLaughlin	632,422	Sept. 5	381	87	88	1781
Nut. Lock-	P. J. Wilson	622,307	Apr. 4	194	43	87	36
Nut-lock and rail-joint	J. W. Ward	620,812	Mar. 7	512	109	86	1602
Nut lock. Axle-skein-	A. Brockschmidt and C. L. Stuckey	624,619	May 9	1235	277	87	962
Nut-lock washer	L. Pyle	616,969	Jan. 3	193	45	86	38
Nut-lock washer	L. Pyle	629,818	Aug. 1	107	26	88	741
Nut-lock washer	J. G. Waggoner	634,048	Oct. 3	113	29	89	26
Nut-locking device	J. Jorgenson	631,506	Aug. 22	3307	751	88	1425
Nut-locking washer	J. Walsh, Jr	634,382	Oct. 3	783	187	89	155
Nut-mill	C. Hook	625,394	May 23	2624	596	87	1272
Nut-setting machine	J. C. Poe	634,027	Oct. 3	79	21	89	20
Nut-tapping machine	J. E. Carter and S. A. Wright	617,078	Jan. 3	418	102, 103	86	81
Nut-tapping machine	G. Dunham	619,548	Feb. 14	1365	314, 315	86	1096
Nut. Vehicle-axle	H. R. Hamer	639,032	Dec. 12	1555	357	89	2189
Nut-wrench	J. D. Ellison	626,891	June 13	1284	281	87	1880
Nut-wrench	M. O. Goodpasture	626,328	June 6	23	5	87	1619
Nut-wrench	M. M. Waddy	632,603	Sept. 5	715	165	88	1048
Nut wrench. Axle-	J. Harter	617,742	Jan. 17	1672	377	86	365
Nuts. Automatic machine for tapping	W. R. Miner	620,475	Feb. 28	3032	694	86	1453
Oar attachment. Bow-facing	J. D. Foster	636,653	Nov. 7	767	167	89	1077
Oar. Bow-facing	H. D. Reese	632,204	Aug. 29	4597	1036	88	1687
Oar. Bow-facing	J. Steele and A. Olson	629,402	July 25	2701	629	88	582
Oar-lock	C. Leiding	630,245	Aug. 1	954	209	88	911
Oar-lock	A. Noël	623,684	Apr. 25	2730	626	87	581
Obturator	T. N. McLean	635,801	Oct. 31	3421	788	89	735
Oculist's testing-frame	E. B. Meyrowitz	635,443	Oct. 24	2766	632, 633	89	595
Odorizer	C. G. Ette	636,031	Oct. 31	3867	889	89	822
Office-door indicator	I. H. Harvey	620,315	Feb. 28	2780	635	86	1406
Office-door indicator	O. W. Whaley	624,278	May 2	617	134	87	816
Office-indicator	R. F. Norman	625,460	May 23	2740	623	87	1293
Office-indicator	C. V. B. Reeder	634,628	Oct. 10	1217	289	89	259
Office-indicator	C. W. Reeves	619,616	Feb. 14	1483	339	86	1117
Offset-webs. Apparatus for handling	C. E. Pattberg	639,763	Dec. 26	2922	672, 673	89	2494
Oil and condensed steam separator	A. Andrews	627,793	June 27	2941	644	87	2244
Oil and making same Synthetic violet-	P. Barbier	617,552	Jan. 10	1317	------	86	276
Oil and making same. Synthetic violet-	J. Ziegler	626,585	June 6	657	------	87	1742
Oil. Apparatus for volatilizing and burning	H. Luckenbach	639,257	Dec. 19	1962	452	89	2283
Oil-box	H. N. Covell	635,665	Oct. 24	3152	726	89	669
Oil-box	E. C. Washburn	626,740	June 13	952	216	87	1817
Oil burner	A. J. Blackford	620,840	Mar. 7	558	120	86	1611
Oil burner	A. J. Blackford	624,743	May 9	1447	326, 327	87	1004
Oil-burner	A. J. Blackford	630,770	Aug. 8	1952	440	88	1116
Oil-burner	A. A. Brower	625,141	May 16	2173	493	87	1160
Oil-burner	J. R Duncan	634,288	Oct. 3	601	148	89	120
Oil-burner	A. Johnson	633,761	Sept. 26	2939	682	88	2324
Oil-burner	J. M. O'Connell	632,822	Sept. 12	1175	269	88	1956
Oil burner	J. S. Thurman	624,130	May 2	341	70	87	765
Oil burner Crude-	J. C. Long and J. E. Walling	624,058	May 2	198	43	87	740
Oil-burner-regulating device	E J. Frost and R. Biddle, Jr	638,107	Nov. 28	3971	835	89	1808
Oil-cake former	T De Armon	621,904	Mar. 28	2551	575, 576	86	2036
Oil-cake-trimming machine	A. W French	623,241	Apr. 18	1931	443	87	405
Oil-can	J. B. Barnes	638,678	Dec. 5	838	209	89	2050
Oil-can	M E Gudenburr	625,162	May 16	2204	500	87	1165
Oil-can	L Hirsch	635,855	Oct. 31	3530	811	89	756
Oil can	C. Lundell	633,724	Sept. 26	2879	669	88	2312
Oil-can	A Miller	628,435	July 4	903	211	88	174
Oil-can	G. Palm	630,264	Aug. 1	977	215	88	915
Oil-can	R Patterson	627,522	June 27	2436	536	87	2144
Oil-can	C. L Wagandt	623,345	Apr. 18	2127	488	87	444
Oil can and oilstone-cover. Combination	J. Rousseau	618,483	Jan. 31	3102	687	86	667
Oil-can. Non-explosive	R. A. Bailey	639,881	Dec. 26	3119	717	89	2532
Oil-can. Non-explosive	G A. Mentel	630,723	Aug. 8	1878	424	88	1101
Oil-can. Non-explosive	J J. Rhinelander and C. Moyer	639,936	Dec. 26	3225	740	89	2554
Oil-can. Safety	H. Dübendorfer	618,563	Jan. 31	3256	723	86	695
Oil-container. Motor	E A. Vivinus and A. J. Hecht	638,190	Nov. 28	4130	872	89	1842
Oil-cup	J. J. Lanahan	632,129	Aug. 29	4457	1003	88	1661
Oil-cup closure	G. W and W. J. Emerick	635,717	Oct. 24	3239	747	89	687
Oil-cup. Sight-feed	H. Ritter	639,293	Dec. 19	2032	468	89	2298
Oil-dropping device	M. J. Clarke	622,119	Mar. 28	2935	666	86	2110
Oil engine	H. N. Bickerton and H. W. Bradley	640,083	Dec. 26	3496	801	89	2610
Oil-engine	F. C. Hirsch	622,469	Apr. 4	489	115, 116	87	91

Alphabetical list of inventions—Continued.

Invention.	Name.	No.	Date.	Monthly volume.		Official Gazette.	
				Spec.	Dr'g.	Vol.	Page.
Oil-extracting apparatus	A. Euston	631,287	Aug. 22	2904	651	88	1345
Oil-extracting apparatus	J. W. Evans	618,791	Jan. 31	3647	815, 816	86	773
Oil from nuts. Extracting	T. C. Graham, J. H. and W. K. Kellogg.	617,653	Jan. 10	1504	342	86	313
Oil from water. Apparatus for separating	V. Camiz and A. Bettoni	639,519	Dec. 19	2451	566	89	2382
Oil-press	W. P. Callahan, T. De Armon, and W. K. Callahan.	621,897	Mar. 28	2535	572	86	2033
Oil-storage can	W. E. Forest	633,441	Sept. 19	2346	553	88	2194
Oil-tank	H. C. Beman	638,696	Dec. 12	975	217	89	2076
Oils and making same. Deodorized compound of mineral	L. O. Helmers	625,332	May 23	2525	------	87	1252
Oils. Extracting	R. H. Hutchinson	637,465	Nov. 21	2389	517	89	1438
Oils for removing sulfur compounds. Treating hydrocarbon	A. J. Boote and H. G. W. Kittredge	620,882	Mar. 14	643	------	86	1641
Oils. Manufacture of substances from rosin	A. Müller-Jacobs	631,749	Aug. 22	3752	------	88	1512
Oils or fats. Apparatus for treating	C. G. Hepburn	628,092	July 4	250	57, 58, 59	88	50
Oils or fats. Refining	J. N. Harris	623,368	Apr. 18	2171	498	87	452
Oils. Purifying	C. Culmann	619,545	Feb. 14	1363	314	86	1096
Oils. Purifying and refining	J. C. Henderson	619,020	Feb. 7	426	89	86	893
Oils. Refining	C. de La Roche	625,933	May 30	3609	------	87	1480
Oils. Refining	S. G. Rosenblum	632,148	Aug. 29	4486	------	88	1667
Oils. Refining vegetable	E. C. Sickels	636,860	Nov. 14	1200	------	89	1192
Oiler	W. H. Wyler	624,282	May 2	624	136	87	817
Oiler. Air-pump piston-rod	W. Cooper	630,488	Aug. 8	1466	328	88	1023
Oiler and cooler. Automatic journal	A. C. Rumble	624,102	May 2	290	60	87	756
Oiler. Automatic	J. McGinley	638,980	Dec. 12	1467	336	89	2173
Oiler. Axle	C. T. Connor, P. J. Ziegler, and C. J. W. Breland.	633,076	Sept. 12	1610	375	88	2040
Oiler. Car-wheel	S. B. Stine	624,566	May 9	1153	258	87	946
Oiler. Gravity center	W. W. Nugent	626,291	June 6	129	33	87	1638
Oiler. Hand	G. S. Huff	624,035	May 2	154	34	87	732
Oiler. Vehicle-axle	D. Myers	639,085	Dec. 12	1640	379	89	2205
Oiler. Wheel	J. R. Robinson	621,850	Mar. 28	2440	544	86	2015
Oiling and indicator-operating mechanism	A. K. Mansfield	638,518	Dec. 5	628	130	89	1986
Oiling device. Piston-rod	G. H. Merritt	635,334	Oct. 24	2498	580	89	542
Oiling device. Rock-drill	R. L. Ambrose	635,286	Oct. 24	2419	564	89	528
Oiling device. Windmill	L. W. Noyes	636,836	Nov. 14	1151	248	89	1181
Oilstone-box	W. Black, Jr.	639,343	Dec. 19	2127	489	89	2317
Ointments. Manufacture of	T. G. F. Hesketh	627,642	June 27	2682	------	87	2193
Operating mechanism	W. G. Dodd	635,372	Oct. 24	2574	598	89	557
Ophthal dynameter	C. H. Brown	623,131	Apr. 18	1729	400	87	364
Ophthalmometer	C. C. Inskeep and J. E. Chambers	631,307	Aug. 22	2943	666	88	1353
Ophthalmometer	C. F. Prentice	634,539	Oct. 10	1066	255	89	230
Ophthalmometer	R. H. Satterlee	624,106	May 2	294	61	87	757
Optical apparatus	W. Scantlebury	635,027	Oct. 17	1917	456	89	414
Optical appliance	E. C. Bridge	638,316	Dec. 5	243	51	89	1913
Optical measuring instrument	C. T. Thomas	628,045	July 4	155	32	88	32
Optical surfaces. Machine for forming	P. Gautier	639,371	Dec. 19	2194	507	89	2331
Opticians' lenses, &c. Pocket-case for	F. H. Smith	620,984	Mar. 14	846	185, 186	86	1677
Optician's testing-frame	E. B. Meyrowitz and F. Buchhop	635,444	Oct. 24	2768	633	89	595
Optometer	F. Hamilton	619,886	Feb. 21	2023	459	86	1247
Oratory	D. McKenna	618,182	Jan. 24	2553	564	86	548
Orchid-receptacle	J. M. W. Kitchen	620,150	Feb. 28	2484	564, 565	86	1350
Ordnance. Breech-closing mechanism of the wedge system for	C. Pohlit	627,308	June 20	2010	442	87	2044
Ordnance. Breech-loading	F. J. Haeseler	637,110	Nov. 14	1689	365, 366, 367	89	1284
Ordnance. Breech-loading	C. H. Tompkins	628,870	July 11	1725	403, 404	88	356
Ordnance. Breech mechanism for breech-loading	A. T. Dawson and G. T. Buckham	629,288	July 18	2468	574, 575	88	515
Ordnance breech mechanism	M. A. Lynch	617,110	Jan. 3	478	115	86	94
Ordnance. Horizontal breech-block for	C. Pohlit	617,907	Jan. 17	2017	450, 451	86	432
Ordnance on ships. Apparatus for firing	M. J. Cuadros	626,002	May 30	3782	861	87	1514
Ordnance-rammer	T. C. Fenton	627,404	June 20	2228	491	87	2086
Ordnance. Safety device for breech mechanism of	C. Pohlit	622,974	Apr. 11	1419	327	87	290
Ordnance Safety-lock for breech-loading	C. Pohlit	617,906	Jan. 17	2015	449	86	431
Ore and coal separator	F. Pardee	629,590	July 25	3054	712	88	650
Ore-bin. Steel	C. A. P. Turner	636,869	Nov. 14	1217	263	89	1194
Ore, coal, &c. Separator for	F. Pardee	629,591	July 25	3056	712	88	650
Ore, coal, &c. Separator for	F Pardee	629,592	July 25	3059	712, 713	88	651
Ore, coal, &c. Separator for	F. Pardee	629,593	July 25	3061	713, 714	88	651
Ore, coal, &c. Separator for	F. Pardee	629,594	July 25	3063	714	88	651
Ore, coal, &c. Separator for	F. Pardee	629,595	July 25	3064	714, 715	88	652
Ore, coal, &c. Separator for	F. Pardee	629,596	July 25	3067	715	88	652
Ore, coal, &c. Separator for	F. Pardee	629,597	July 25	3069	715	88	653
Ore-concentrating machine	O. Blacket	620,014	Feb. 21	2238	508	86	1287
Ore-concentrating machine	J. H. Michelsen	636,679	Nov. 7	812	180	89	1087
Ore-concentrating machine	T. S. Ridge	638,276	Dec. 5	151	34	89	1895
Ore-concentrating table	F. L. Bartlett	621,515	Mar. 21	1810	402	86	1876
Ore-concentrating table	F. L. Bartlett. (Reissue)	11,756	July 4	914	213, 214	88	176
Ore-concentrator	I. A. Cammett and F. E. Shepard	632,892	Sept. 12	1313	301	88	1980
Ore-concentrator	R. E Clark	632,338	Sept. 5	236	56	88	1754
Ore-concentrator	G. T Cooley	633,686	Sept. 26	2812	654	88	2298
Ore-concentrator	H. H. Cramer	639,920	Dec. 26	3198	734	89	2549

Alphabetical list of inventions—Continued.

Invention.	Name.	No.	Date.	Monthly volume.		Official Gazette.	
				Spec.	Dr'g.	Vol.	Page.
Ore-concentrator	H. Earle	640,117	Dec. 26	3558	818	89	2623
Ore-concentrator	H. C. Grannatt	632,109	Aug 29	4414	991 992	88	1652
Ore-concentrator	A. G. Mather and F. T. Snyder	628,105	July 4	284	67	88	56
Ore-concentrator	E. C. Sooy	631,411	Aug. 22	3124	709	88	1389
Ore-concentrator	A. Ten Winkel	622,641	Apr. 4	831	192	87	158
Ore-cooler Multitubular	P. Argall	623,231	Apr. 18	1914	439 440	87	402
Ore-cooler. Rotary	P. Argall	623,230	Apr. 18	1911	438 439	87	402
Ore-crusher	J. F. Keyton	626,326	June 6	205	50	87	1652
Ore-crusher	C. Skinner	617,781	Jan. 17	1766	395 396	86	381
Ore-crusher	B. I. Turman and T. J. Hampton	629,098	July 18	2153	500	88	457
Ore-crushing machine	C. C. Lane	623,088	Apr. 11	1620	373	87	330
Ore-feeder	R. H. Jeffrey	635,781	Oct. 31	3385	781 782	89	729
Ore grinder and amalgamator	J. Gerstle	616,915	Jan. 3	91	19	86	19
Ore-leaching apparatus	A. F. Duey	623,772	Apr. 25	2909	665	87	615
Ore or coal washer	A. I. Jones	624,499	May 9	1020	230	87	918
Ore-pulverizer. Railway	H. Mann	639,418	Dec. 19	2280	527	89	2347
Ore-reducing furnace	L. Correa	638,099	Nov. 28	3954	831 832	89	1805
Ore-roaster	C. D. Bouton, H. H. Green, A. D. Ross, and A. A. Chainey.	635,418	Oct. 24	2710	621 622	89	583
Ore roasting and calcining furnace	G. A. Richard	630,108	Aug. 1	719	155	88	866
Ore-roasting furnace	J. F. Keiper	625,336	May 23	2530	575	87	1253
Ore-roasting furnace	J. F. Keiper	630,510	Aug. 8	1507	337	88	1029
Ore roasting-oven and cooling-hearth. Combined	H. C. Holthoff	620,132	Feb. 28	2454	555 556	86	1344
Ore-sampler	C. A. Snyder, D. J Cheesman, and J. A. Moore.	621,771	Mar. 21	2290	515	86	1970
Ore-separator	W. Hooper	633,456	Sept. 19	2371	558 559	88	2199
Ore-separator	F. A. Pratt	639,433	Dec. 19	2313	533 534	89	2353
Ore separator and amalgamator	H. Fuller	633,445	Sept. 19	2351	554 555	88	2195
Ore separator and amalgamator	I. A. Palmer	639,089	Dec. 12	1645	380 381	89	2206
Ore separator. Electromagnetic	E. Kreuser	638,128	Nov. 28	4019	846	89	1819
Ore-separator. Electromagnetic	E. Kreuser	638,129	Nov. 28	4020	846	89	1819
Ore. Treating	D. O'Keefe	635,056	Oct. 17	1976	------	89	426
Ore-washer	E. J. Beverstock	629,947	Aug. 1	409	89	88	803
Ore washer and separator	J. F. Mason	622,507	Apr. 4	569	133	87	107
Ores Apparatus for roasting refractory	R. A. Stewart	633,278	Sept. 19	2037	479	88	2134
Ores. Apparatus for treating	M. F. Leech	626,173	May 30	4141	943	87	1579
Ores, &c. Apparatus for treating	L. Pelatan	623,822	Apr. 25	2997	686 687	87	632
Ores. Apparatus for use in treating metallic	F. A. Edwardes	624,633	May 9	1261	281 282	87	967
Ores by lixiviation. Apparatus for treating	J. Luce	620,660	Mar. 7	223	46	86	1545
Ores. Chemically preparing and treating rebellious	C. Martin	635,695	Oct. 24	3202	------	89	679
Ores. Chlorinating	W. B. Jackson	625,397	May 23	2628	597	87	1272
Ores. Electrolytically treating	L. Pelatan	627,442	June 20	2291	504 505	87	2100
Ores. Electromagnetic apparatus for separating	E. Kreuser	634,356	Oct. 3	740	177	89	148
Ores Electromagnetic apparatus for separating	E. Kreuser	639,062	Dec. 12	1599	367	89	2197
Ores. Extracting metallic	E. A. Smith and M. H. Lyng	617,911	Jan. 17	2024	452 453	86	433
Ores. Mechanical disintegration of	D. O'Keefe	621,274	Mar. 14	1376	305	86	1781
Ores or tailings before cyaniding Preliminary treatment of	J. S. Cain, A. Soderling, and S. P. MacKnight.	636,114	Oct. 31	4056	928	89	859
Ores. Roasting	E. E. Lungwitz	624,833	May 9	1635	370	87	1041
Organ	G. W. Scribner	625,472	May 23	2756	628	87	1296
Organ	H. Trautner	627,281	June 20	1957	431	87	2033
Organ-action	J. Slawik	623,843	Apr. 25	3044	700	87	641
Organ. American	S. Howard	638,843	Dec. 12	1222	275	89	2124
Organ attachment	S. Howard	625,770	May 30	3297	748	87	1421
Organ for reinforcing melody tones	A. Ahlfors	624,721	May 9	1412	316	87	997
Organ. Pipe	A. B. Felgemaker	626,415	June 6	372	87	87	1686
Organ. Pneumatic	M. Clark	626,320	June 6	190	47	87	1649
Organ. Pneumatic pipe	H. Schmelzeis	633,735	Sept. 26	2896	673	88	2316
Organ. Pneumatically-operated	M. Clark	632,698	Sept. 12	936	217 218	88	1906
Organ. Reed	R. J. Bennett	624,742	May 9	1442	325 326	87	1004
Organ. Reed	J. H. Dickinson	624,192	May 2	453	95	87	786
Organ register-stop Pipe	A. B. Felgemaker	626,414	June 6	370	87	87	1685
Organ Self-playing	E. C. Hiscock	638,245	Dec. 5	81	19	89	1882
Organs Adjusting and transposing device for automatic	M. Clark	625,744	May 30	3241	736	87	1410
Organs Crescendo and diminuendo device for	F. W Hedgeland	628,937	July 18	1860	431	88	399
Organs. Means for controlling registration of self playing	F W. Hedgeland	638,709	Dec. 12	996	222	89	2080
Organs. Primary valve for automatic	J. H Chase	627,570	June 27	2529	556	87	2162
Organs. Self-playing device for	F W. Hedgeland	628,535	July 11	1104	257 258	88	233
Ornamental fountain	C. M Hollingsworth	636,803	Nov. 14	1099	236	89	1170
Ornamental fountain	P. C. Just	620,592	Mar. 7	73	14, 15	86	1517
Ornamental receptacles and pendants. Blank for	H. S Kerr	618,275	Jan. 24	2706	600 601	86	576
Ornamenting surfaces	B. B. Goldsmith	631,295	Aug. 22	2916	------	88	1347
Oscillating meter	A. Lotz	638,055	Nov. 28	3854	810	89	1787
Oscillating motor	A. E. Weingartner	631,685	Aug. 22	3625	817	88	1490
Outdoor seat	W English	636,778	Nov. 14	1061	226	89	1163

Alphabetical list of inventions—Continued.

Invention.	Name.	No.	Date.	Monthly volume.		Official Gazette	
				Spec.	Dr'g.	Vol.	Page.
Oven	H. Adler	639,646	Dec. 19	2686	616	89	2431
Oven	H. Werner	628,052	July 4	168	36	88	34
Oven. Bake-	H. A. Schoregge	639,099	Dec. 12	1673	387	89	2213
Oven. Baker's	F. Eberhart	626,992	June 13	1452	319	87	1914
Oven. Baker's	P. W. Klein	637,803	Nov. 28	3372	706	89	1691
Oven. Baker's	A. A. Knights	627,125	June 20	1691	370	87	1980
Oven. Baker's	G. A Kraber and S. Viereck	637,132	Nov. 14	1755	377	89	1297
Oven. Baker's	W. E. Krumroy	622,499	Apr. 4	558	131	87	106
Oven. Baker's	W. Neuhs	628,488	July 11	1006	234	88	215
Oven, &c. Baker's	E. M. Sjöholm	623,222	Apr. 18	1898	436	87	397
Oven-door	L. Leu	637,805	Nov. 28	3374	707	89	1691
Oven door. Baker's-	W. Neuhs	635,075	Oct. 17	2026	478	89	437
Oven-grate	D. G. Hobby	620,927	Mar. 14	720	159	86	1654
Oven-plate. Rotary	O. G. Naquin	633,029	Sept. 12	1538	358	88	2024
Oven. Portable	F. J. S. Roberts	626,773	June 13	1013	228, 229, 230	87	1829
Oven. Portable knockdown	C. H. Boeck	617,696	Jan. 10	1586	358, 359	86	328
Oven-shelf	J. Hovsepian	620,324	Feb. 28	2792	638	86	1408
Overalls	J. G. Lewis	621,353	Mar. 21	1523	338	86	1822
Overalls or trousers	I. Russakov	631,408	Aug. 22	3118	707	88	1388
Overflow-alarm	C. Liss	620,713	Mar. 7	325	66	86	1565
Overflow-trap	F. A. Radcliffe	639,610	Dec. 19	2614	600	89	2415
Overshoe	P. J. Batchelor	638,164	Nov. 28	4082	861	89	1830
Overshoe	W. T. Miller	638,735	Dec. 12	1046	235	89	2090
Overshoe	A. E. Roberts	626,299	June 6	149	36	87	1643
Overshoe-holder	F. Morgenstern	636,545	Nov. 7	552	122	89	1032
Overshoe-holder	J. E. Wallace	623,852	Apr. 25	3066	706	87	645
Oxidizing-furnace	H. J. Clark	620,887	Mar. 14	650	142, 143	86	1642
Oxygen and hydrogen. Apparatus for producing	P. Garuti and R. Pompili	629,070	July 18	2091	488	88	445
Oxyhalogen salts. Making	P. Imhoff	627,000	June 13	1478	------	87	1919
Oxyhalogen salts. Manufacture of	P. Imhoff	627,063	June 13	1576	------	87	1937
Oxymethylene-uric acid. Making	F. Ach	631,762	Aug. 22	3787	------	88	1515
Oxypurin and making same	E. Fischer	631,706	Aug. 22	3661	------	88	1497
Oxypurin and making same	E. Fischer	631,708	Aug. 22	3671	------	88	1498
Oxypurin and making same	E. Fischer	631,709	Aug. 22	3675	------	88	1498
Oyster-tongs	P. G. Ashley	622,100	Mar. 28	2896	654	86	2103
Oyster-tongs	W. L. Harper	618,873	Feb. 7	103	22	86	824
Oyster-tongs	J. M. Holten	634,620	Oct. 10	1206	286	89	257
Ozone-generating apparatus	H. Tindal	636,868	Nov. 14	1216	262, 263	89	1194
Ozone-generator	H. Abraham and L. Marmier	632,391	Sept. 5	331	75	88	1772
Package. Air-tight	F. G. Peck	636,449	Nov. 7	366	83	89	995
Package and lantern. Combined shipping-	W. E. Mayo	639,422	Dec. 19	2287	529	89	2349
Package-carrier	G. R. Garrett	636,401	Nov. 7	291	65	89	979
Package-filler. Automatic	W. A. Overbeck	622,972	Apr. 11	1416	326	87	289
Package filling and folding machine	J. M. Howe	628,178	July 4	416	98	88	84
Package. Shipping-	M. A. Possons	618,614	Jan. 31	3338	742	86	711
Package. Shipping-	W. B. Thomson	619,369	Feb. 14	1062	238	86	1037
Package. Storage-	M. Falk	628,159	July 4	379	89	88	77
Package. Storing and shipping	E. Klein	627,064	June 13	1576	344	87	1937
Package. String-	J. E. Beller	636,105	Oct. 31	4040	924	89	856
Package-tie	T. J. Kinsey	627,195	June 20	1803	395	87	2002
Packages, &c. Dispensing top or cover for	R. P. Beatty	621,785	Mar. 28	2318	521	86	1991
Packing	P. H. A. Leder	636,818	Nov. 14	1121	------	89	1175
Packing	G. T. McDondland	622,899	Apr. 11	1294	298	87	264
Packing	H. S. and M. Montgomery	636,052	Oct. 31	3908	897	89	831
Packing-auger	J. Koelner	617,749	Jan. 17	1684	379	86	367
Packing-box	M. N. Edwards	628,778	July 11	1568	362	88	326
Packing-box	C. A. Robbins	620,054	Feb. 21	2311	525	86	1301
Packing-case	G. A. McLane	622,819	Apr 11	1140	263	87	236
Packing-case	T. Miller, Jr., and W. O. Joslin	632,135	Aug. 29	4464	1005	88	1662
Packing-case cushioning-pad	H. J. Mark	626,240	June 6	43	10	87	1623
Packing compound	C. L. Ireson	633,961	Sept. 26	3280	------	88	2393
Packing. Cutter for cutting metallic	N. M. Watson	622,906	Apr. 11	1305	300	87	266
Packing device. Rod-	A. W. Gibbs	621,063	Mar. 14	995	216	86	1706
Packing. Folding	W. C. Loeffel	618,698	Jan. 31	3494	780	86	742
Packing. Folding	W. C. Loeffel	629,450	July 25	2784	647	88	598
Packing for bottles, &c	H. A. Leak	625,780	May 30	3311	752	87	1424
Packing for journals, &c	J. M. Hagy	631,502	Aug. 22	3299	750	88	1423
Packing for piston-rods. Metallic	A. L. Hawkesworth	617,809	Jan. 17	1824	407	86	395
Packing for yielding rotary shafts	J. G. Sciama and K. M. Sosnowski	629,136	July 18	2226	516	88	471
Packing. Gage-glass	E. L. Perry, Jr	631,661	Aug. 22	3583	807	88	1481
Packing-holding device	A. Ball	623,127	Apr. 18	1725	399	87	364
Packing-machine	C. S. Rider	617,862	Jan. 17	1918	430	86	413
Packing-machine	C. S. Rider	617,863	Jan. 17	1920	430	86	413
Packing material	M. W. Marsden	622,054	Mar. 28	2819	------	86	2088
Packing material. Making	L. L. Duerden	620,756	Mar. 7	414	85	86	1582
Packing, matting, &c. Sheet material for	J. B. Forsyth	622,889	Apr. 11	1280	295	87	262
Packing. Metallic	J. T. N. Angell	628,515	July 11	1068	249	88	225
Packing. Metallic	T. W. Mitchell	631,088	Aug. 15	2550	577	88	1257
Packing. Metallic	W. H. Prendergast	638,682	Dec. 5	945	210	89	2052
Packing. Metallic	A. Shaw	636,008	Oct. 31	3829	880	89	814
Packing mold. Piston-	F. Van den Bosch	625,221	May 16	2300	524	87	1184
Packing or filling. Vessel	M. W. Marsden	625,343	May 23	2544	578	87	1256
Packing. Partition-	H. J. Mark	629,041	July 18	2039	474, 475	88	434
Packing. Piston-	G. M. Mullen	624,365	May 2	761	171	87	846
Packing. Piston	W. Roadman	633,042	Sept. 12	1559	362	88	2028
Packing. Piston or valve rod	A. W. France	636,512	Nov. 7	492	110	89	1021
Packing. Piston-rod	J. Badeker	626,129	May 30	4046	923	87	1560
Packing Piston rod	J. Badeker	636,101	Oct. 31	4034	923	89	855
Packing. Piston-rod	J. W. Dudley	619,468	Feb. 14	1235	281	86	1070
Packing. Piston-rod	L. Hopkins	621,817	Mar. 28	2379	531	86	2002

Alphabetical list of inventions—Continued.

Invention.	Name.	No.	Date.	Monthly volume. Spec.	Monthly volume. Dr'g.	Official Gazette. Vol.	Official Gazette. Page.
Packing. Piston-rod	G. H. Lewis	623,482	Apr. 18	2365	544	87	493
Packing. Piston-rod	F. D. Philp	638,138	Nov. 28	4037	850	89	1822
Packing. Pump-plunger	F. E. Chase	626,856	June 13	1189	264	87	1862
Packing. Ram for metallic	R. P. Schilling	639,620	Dec. 19	2638	605	89	2420
Packing-ring. Piston	W. E. Karns	629,693	July 25	3232	752	88	684
Packing-rings. Making sectional	A. W. France	639,722	Dec. 26	2838	654	89	2478
Packing. Rod-	F. Brown	632,638	Sept. 5	773	178	88	1860
Packing. Rod-	R. E. Byle, H. A. Fillmore, and R. H. Nicholson.	632,442	Sept. 5	424	94	88	1790
Packing. Rod-	J. S. McDonald	628,835	July 11	1668	389	88	346
Packing. Rod-	N. B. Miller	632,583	Sept. 5	681	158	88	1841
Packing. Rod and plunger	G. T. Staples	633,624	Sept. 26	2704	629	88	2276
Packing. Stuffing-box	C. Endruweit	637,098	Nov. 14	1666	361	89	1281
Packing. Stuffing-box	H. Kirschning	637,130	Nov. 14	1752	376	89	1297
Packing vessel	H. H. Hull	636,639	Nov. 7	183	40	89	958
Packing vessel	H. Pyles	627,142	June 20	1713	376	87	1984
Pad: *See* Collar-pad. Furniture-pad. Hoof-pad. Horseshoe-pad. Inking-pad. Knee-pad. Manifold-pad. Manifolding-pad. Memorandum-pad. Packing-case cushioning-pad. Protective pad. Sales-pad. Sample-pad. Shoulder-pad. Soldering-pad. Truss-pad. Writing-pad. Wax-pad.							
Pad and pad-holder. Combined	G. C. Prince	619,613	Feb. 14	1478	338	86	1117
Paddle for boats. Bow-facing self-feathering	J. A. Walker	638,081	Nov. 28	3893	819	89	1795
Paddle-wheel	C. Chamberlain	635,843	Oct. 31	3505	805	89	751
Paddle-wheel	W. B. Motheral	633,529	Sept. 19	2487	585	88	2221
Paddle-wheel	J. R. Parks	621,368	Mar. 21	1548	343	86	1827
Paddle-wheel	P. Pieri	623,424	Apr. 18	2267	519	87	474
Paddle-wheel	R. Schlegel	618,295	Jan. 24	2744	608	86	584
Paddle-wheel. Feathering	C. C. Lee	627,065	June 13	1577	344, 345	87	1937
Paddle-wheel feathering-blade	T. H. A. Lukatis	627,860	June 27	3059	669	87	2267
Padlock	J. L. Crandall	618,561	Jan. 31	3253	722	86	695
Padlock	D. Krekes	624,947	May 16	1838	413	87	1097
Padlock	W. M. Thompson	631,389	Aug. 22	3091	699	88	1383
Padlock	J. W. Turner	621,391	Mar. 21	1580	350	86	1833
Padlock	P. Van Cauwenberghe	618,752	Jan. 31	3589	801	86	762
Padlock	H. G. Voight	618,487	Jan. 31	3111	688	86	669
Padlock	H. G. Voight	636,303	Nov. 7	132	29	89	948
Padlock. Master-key	H. G. Voight	632,292	Sept. 5	163	37	88	1739
Padlock. Permutation-	J. E. Jolliff	621,095	Mar. 14	1057	230	86	1718
Padlock. Permutation-	J. A. L. Snyder	625,989	May 30	3717	843	87	1501
Padlock. Permutation-	C. Studer	638,076	Nov. 28	3885	818	89	1794
Pail	H. Betzoldt and O. Schubert	638,547	Dec. 5	680	143	89	1996
Pail and lantern. Combined dinner-	R. A. Libby	634,530	Oct. 10	1049	249	89	227
Pail. Dinner-	J. H. Browniug	617,803	Jan. 17	1811	405	86	392
Pail. Dinner-	G. W. Curtis	620,891	Mar. 14	659	144	86	1645
Pail-ear	J. Danz, 2d	625,383	May 23	2606	593	87	1268
Pail holder. Milk-	E. Cornforth	625,148	May 16	2181	496	87	1161
Pail-hook or corner-iron	A. H. Gardner	634,290	Oct. 3	604	148	89	121
Pail. Milk-	H. K. Borchgrevink	633,115	Sept. 19	1723	404	88	2072
Pail. Water-	A. Müller	639,822	Dec. 26	3028	697	89	2515
Paint	H. Loesner	634,468	Oct. 10	942	------	89	206
Paint	J. Mallison	620,599	Mar. 7	84	------	86	1519
Paint-agitator	C. A. Brown	628,751	July 11	1521	352	88	317
Paint compound	C. J. Bruce	632,095	Aug. 29	4380	------	88	1645
Paint drum, keg, tin, &c.	E. S. Pinchin	617,406	Jan. 10	1058	241	86	225
Paint. Fireproof	S. Kalamaikowski	619,579	Feb. 14	1416	------	86	1104
Paint-mill	J. T. Trees	637,362	Nov. 21	2209	475, 476	89	1402
Paint-mixer	I. W. Drummond	624,632	May 9	1258	281	87	966
Paint. Package containing gold	J. W. Hasburg	627,580	June 27	2552	562	87	2166
Paint-sample	S. D. Pierce	617,119	Jan. 3	499	119	86	98
Paint-spraying device	E. Liebscher	629,513	July 25	2926	681	88	625
Painters, plasterers, &c. Adjustable folding horse for	W. Porten	638,987	Dec. 12	1482	340	89	2176
Painting apparatus	C. W. Carter	626,750	June 13	969	220	87	1820
Painting apparatus	J. H. Davis	623,307	Apr. 18	2058	472	87	431
Painting apparatus	J. H. Davis	629,756	July 25	3350	782	88	707
Painting apparatus	G. G. Lewis	632,653	Sept. 5	811	188, 189	88	1868
Painting-machine	M. G. Barrier	617,982	Jan. 17	2131	477	86	455
Painting. Method of and apparatus for	J. H. Davis	618,788	Jan. 31	3643	814	86	772
Paintings. Reproducing tapestry-	R. P. Winters	621,731	Mar. 21	2206	497	86	1955
Pan: *See* Ash-pan. Bake-pan. Baking-pan. Bed and douche pan. Broiling-pan. Dust-pan. Evaporating-pan. Prospector's pan. Roasting-pan. Saucepan. Self-basting pan.							
Pan lid. Frying-	H. A. Bowers	616,883	Jan. 3	21	5	86	6
Pan-lifter	D. F. Marsh	629,799	Aug. 1	67	17	88	734
Pan or lid lifter	G. W. Jones	632,352	Sept. 5	256	61	88	1757
Pan, pot, or lid lifter	J. A. V. Brann	629,981	Aug. 1	469	102	88	816
Pan top. Cake-	W. E. Hendricks	635,320	Oct. 24	2476	575	89	537
Pans. Automatic alarm for drip-	E. Hicks	629,683	July 25	3214	749	88	681
Panel for windows, &c. Ornamental	T. Pfister and E. Barthels	625,463	May 23	2743	624	87	1293
Panel or grid. Resistance	A. C. Dinkey	618,954	Feb. 7	289	63	86	867
Paneling and veneering. Composite embossed	E. Caveneget	628,647	July 11	1341	312	88	279
Panorama	H. H. Gross	624,479	May 9	980	218	87	912

Alphabetical list of inventions—Continued.

Invention.	Name.	No.	Date.	Monthly volume. Spec.	Monthly volume. Dr'g.	Official Gazette. Vol.	Official Gazette. Page.
Pants-guard. Bicycle	C. W. Siever	632,430	Sept. 5	391	89	88	1784
Pants-holder	J. T. Thorpe	620,260	Feb. 28	2680	614	86	1386
Pants-holder	J. T. Thorpe	620,261	Feb. 28	2681	615	86	1386
Paper and envelop box	C. E. Weyand	636,019	Oct. 31	3849	885	89	819
Paper and paper materials. Machine for pulping up	C. Wurster	635,412	Oct. 24	2699	618	89	581
Paper and pulp manufacture. Settling and recovering apparatus for	W. Curtis	632,517	Sept. 5	563	129	88	1819
Paper. Apparatus for applying wadding to	M. M. Uhlig	625,430	May 23	2691	613	87	1284
Paper. Apparatus for imparting water-finish to	G. S. Witham	628,570	July 11	1172	275	88	246
Paper-applying device. Wall-	A. W. Foster	630,678	Aug. 8	1813	408	88	1088
Paper assembling and stapling machine	T. C. Dexter	618,648	Jan. 31	3403	757, 758, 759, 760	86	725
Paper assembling and stapling machine	T. C. Dexter	632,448	Sept. 5	431	95, 96	88	1791
Paper-bag machine	D. Appel	619,262	Feb. 14	881	194, 195, 196, 197, 198, 199	86	1001
Paper-bag machine	H. Bilgram	634,102	Oct. 3	210	53, 54, 55, 56	89	46
Paper-bag machine	E. E. Claussen	629,888	Aug. 1	255	57, 58	88	770
Paper-bag machine	E. E. Claussen	634,081	Oct. 3	165	42, 43	89	37
Paper-bag machine	E. E. Claussen	636,760	Nov. 14	1015	217, 218	89	1154
Paper-bag machine	E. E. Claussen and G. Mortson	635,090	Oct. 17	2055	484, 485, 486	89	443
Paper-bag machine	C. V. Crist and M. Schenck	629,986	Aug. 1	482	105, 106	88	818
Paper-bag machine	C. V. Crist, M. Schenck, and A. B. Mudgett.	629,985	Aug. 1	473	103, 104, 105	88	817
Paper-bag machine	A. J. Denoyer	627,397	June 20	2210	485, 486, 487, 488	87	2083
Paper-bag machine	J. Doering	626,369	June 6	301	68, 69	87	1672
Paper-bag machine	C. E. Duhn	626,372	June 6	307	71	87	1673
Paper-bag machine	M. Schenck	629,472	July 25	2826	656, 657	88	607
Paper-bag machine	R. M. Uhlmann	634,099	Oct. 3	204	50, 51, 52	89	45
Paper-bag machine	H. E. Westervelt	621,881	Mar. 28	2500	558, 559	86	2027
Paper-bag-making machine	W. Carter	626,319	June 6	188	46, 47	87	1649
Paper bags. Manufacture of conical-shaped	G. O. Woolley	621,009	Mar. 14	896	194, 195	86	1687
Paper box	G. Bartlett	637,697	Nov. 21	3191	662	89	1635
Paper box	G. A. Bisler	617,457	Jan. 10	1145	261	86	241
Paper box	R. Gair	619,475	Feb. 14	1245	284	86	1072
Paper box	F. Knobeloch	618,468	Jan. 31	3077	681, 682	86	662
Paper box	F. Knobeloch	622,495	Apr. 4	553	130	87	105
Paper box	F. Knobeloch	622,496	Apr. 4	554	130	87	105
Paper box	F. Knobeloch	634,415	Oct. 3	837	202	89	167
Paper box	F. Knobeloch	636,047	Oct. 31	3895	894	89	828
Paper box	E. A. McMillin	639,269	Dec. 19	1981	457	89	2287
Paper box	T. Morgan	627,868	June 27	3073	672	87	2270
Paper box	T. F. W. Schmidt	622,273	Apr. 4	131	29, 30	87	28
Paper box	T. F. W. Schmidt	622,274	Apr. 4	133	30, 31	87	28
Paper box	M. Vierengel	624,583	May 9	1174	264	87	950
Paper box	G. R. Wyman	630,789	Aug. 8	1987	449	88	1124
Paper-box blank	H. B. Smith	634,507	Oct. 10	1004	240	89	218
Paper-box-blank machine	E. A. Armstrong	623,862	Apr. 25	3078	709	87	647
Paper-box-blank-making machine	J. Binder	631,392	Aug. 22	3095	700, 701	88	1383
Paper box. Folding	T. Morgan	637,642	Nov. 21	3082	637	89	1613
Paper box. Folding	H. M. Russell	630,007	Aug. 1	523	115	88	826
Paper box. Knockdown or folding	M. T. Lynch	637,397	Nov. 21	2271	489	89	1415
Paper-box machine	C. R. Bannihr	628,062	July 4	185	41, 42, 43	88	37
Paper-box machine	W. G. Cowell	630,596	Aug. 8	1669	374, 375	88	1062
Paper-box machine	A. Godfrey	622,678	Apr. 11	905	207, 208, 209	87	191
Paper-box machine	J. Godfrey	639,809	Dec. 26	3004	691, 692, 693	89	2511
Paper-box machine	R. Osang	637,152	Nov. 14	1789	384	89	1304
Paper-box machine	F. M. Peters	634,627	Oct. 10	1214	288	89	258
Paper-box machine	I. L. Sheldon	639,449	Dec. 19	2335	539, 540	89	2358
Paper box or lid	F. Knobeloch	622,494	Apr. 4	552	129	87	104
Paper boxes. Machine for attaching fly-strips to	C. W. Hobbs	638,413	Dec. 5	440	91	89	1949
Paper case. Toilet-	F. Davis and O. H. P. Cornelius	621,636	Mar. 21	2016	449, 450, 451	86	1917
Paper-clip and pencil-holder. Combined	S. L. Long	636,269	Nov. 7	76	18	89	938

Alphabetical list of inventions—Continued.

Invention.	Name.	No.	Date.	Monthly volume. Spec.	Monthly volume. Dr'g.	Official Gazette. Vol.	Official Gazette. Page.
Paper-clips Machine for making wire	W. D. Middlebrook	636,272	Nov. 7	83	20	89	939
Paper-coating machine	H. M. Reichenbach	619,617	Feb. 14	1485	339	86	1117
Paper-coating machine	W. H. Waldron	637,364	Nov. 21	2212	476	89	1403
Paper, &c. Composition for sensitizing	J. Meyer	637,638	Nov. 21	3074	------	89	1612
Paper-crimping machine	C. H. Stoelting	622,871	Apr. 11	1235	287, 288	87	253
Paper-cutter	C. Beck	628,441	July 11	922	215	88	197
Paper-cutter	O. C. Hale	639,231	Dec. 19	1921	442	89	2274
Paper-cutter	W. H. Lewis	628,908	July 11	1808	421	88	372
Paper-cutter	F. G. J. Post	631,475	Aug. 22	3243	736	88	1413
Paper-cutter. Rotary	H. W. Mather	620,944	Mar. 14	758	166	86	1661
Paper-cutters Clamp-coupling device for automatic	C. Seybold	627,599	June 27	2599	573	87	2177
Paper-cutters. Counting attachment for rotary	C. H. Remington	617,937	Jan. 17	2062	462	86	442
Paper cutting and folding apparatus	E. H. and C. P. Cottrell	640,100	Dec. 26	3523	809, 810	89	2616
Paper-cutting machine	A. B. Cowles	632,214	Aug. 29	4609	1039	88	1689
Paper-cutting machine	E. M. Lockwood	623,089	Apr. 11	1622	373, 374	87	330
Paper-cutting machine	R. Miehle	621,839	Mar. 28	2416	540	86	2010
Paper-cutting machine	R. J. Rousay and W. G. Sinclair	630,631	Aug. 8	1739	389, 390	88	1074
Paper-cutting machine	H. E. Waltz	635,884	Oct. 31	3581	824	89	765
Paper-cutting machines. Clamp-operating device for	E. M. Lockwood	640,162	Dec. 26	3630	835	89	2638
Paper-drying machine	J. A. Prince	633,733	Sept. 26	2893	672	88	2315
Paper-drying machines. Lath-carrying device for	S. R. Liberty	629,696	July 25	3237	753	88	685
Paper-embossing machines Automatic stop attachment for	J. A. Prince	633,701	Sept. 26	2839	660	88	2304
Paper-fastener	T. F. Welch	617,453	Jan. 10	1140	260	86	240
Paper-fasteners Implement for inserting	C. M. Hayes	633,242	Sept. 19	1974	463	88	2123
Paper-feeding machine	T. C. Dexter	620,841	Mar. 7	562	121, 122, 123, 124	86	1612
Paper-feeding machine	T. C. Dexter	623,769	Apr. 25	2865	656, 657, 658, 659, 660	87	607
Paper-feeding machine	T. C. Dexter	623,770	Apr. 25	2887	660, 661, 662, 663, 664	87	611
Paper-feeding machine	T. C. Dexter	636,769	Nov. 14	1033	221, 222, 223	89	1157
Paper-feeding machine	L. Gerö	618,409	Jan. 31	2985	661, 662	86	645
Paper-feeding machine	W. A Philpott, Jr., and T. A. Briggs	626,631	June 6	730	168, 169	87	1756
Paper-feeding machine	C. Rymtowtt-Prince	632,948	Sept. 12	1400	323	88	1997
Paper-feeding machine	W. G. Trevette	628,132	July 4	326	78, 79	88	66
Paper-feeding machine	W. G. Trevette	635,616	Oct. 24	3062	703, 704	89	651
Paper-feeding machine delivery guard	T. C. Dexter	625,094	May 16	2094	472, 473, 474, 475, 476	87	1145
Paper-feeding machines. Table-raising mechanism for	N. E. Funk	621,753	Mar. 21	2256	509	86	1964
Paper fixture and roll. Toilet-	F. H. Hoberg	622,046	Mar. 28	2806	633	86	2086
Paper-folding apparatus	E. H. and C. P. Cottrell	633,716	Sept. 26	2866	666	88	2310
Paper-folding apparatus	T. McDowell and J. Bengough	630,626	Aug. 8	1729	387, 388	88	1072
Paper-folding machine	H. F Bechman	628,066	July 4	195	44	88	39
Paper-folding machine	J. Whitelaw	622,579	Apr. 4	709	165, 166	87	35
Paper-folding-machine back-stop	T. C. Dexter	632,447	Sept. 5	429	95	88	1791
Paper-fringing machine	C. Schumann	638,361	Dec. 5	342	72	89	1941
Paper from webs into sheets. Machine for cutting	F. Meisel. (Reissue)	11,750	June 13	1614	353	87	1945
Paper-hanging apparatus. Wall-	G. Beal	621,595	Mar 21	1949	436	86	1903
Paper hanging. Pasting apparatus for wall-	K. and V. McCreery	632,059	Aug. 29	4316	970	88	1632
Paper-holder	C. Freese	632,047	Aug. 29	4293	965	88	1628
Paper-holder	W. D. Kilbourn	618,987	Feb. 7	377	78	86	883
Paper-holder	N. W. McLeod	627,437	June 20	2285	503	87	2099
Paper-holder	T J. Paton	627,439	June 20	2286	504	87	2099
Paper holder and printer. Roll-	M Tilden	623,049	Apr. 11	1549	358	87	316
Paper-jogger	R. Miehle	618,892	Feb. 7	129	28	86	829
Paper-machine drier felt	W. L. Barrell	636,482	Nov. 7	432	96	89	1008
Paper. Machine for threading piles of	G. A. W. Ehrhardt	628,885	July 11	1753	410	88	361
Paper-making-machine screen	R. Smith	628,234	July 4	510	123	88	102
Paper-machinery driving connection	A. B. Tower and J. H. Wallace	620,619	Mar. 7	127	26	86	1527
Paper-making apparatus	P. S. Sinclair	625,941	May 30	3619	823	87	1482
Paper-making machine	C. E. Barrett and J. H. Horne	634,228	Oct. 3	472	120	89	96
Paper making machine	F. J. Marshall	635,266	Oct. 17	2367	553	89	500
Paper-making machine	J. W. Moore and J. A. White	620,548	Feb. 28	3181	728, 729	86	1482
Paper-making-machine roll	J. A. Fisher and F. Wesco	622,340	Apr. 4	249	57	87	47
Paper-making-machine sand-table	J. H. Annandale	635,736	Oct. 31	3301	761	89	712
Paper-making machines Apparatus for drying wet felts of	H. Neidhardt	634,307	Oct. 3	642	156	89	130
Paper-making machines. Attachment for wetting calender-rolls of	G. T. Pratt	635,757	Dec. 12	1080	241	89	2098

Alphabetical list of inventions—Continued.

Invention.	Name.	No.	Date.	Monthly volume. Spec.	Monthly volume. Dr'g.	Official Gazette. Vol.	Official Gazette. Page.
Paper-making machines. Shaking-section of Four-drinier	T. H. Savery	635,511	Oct. 24	2877	656, 657	89	616
Paper. Manufacture and hanging of wall-	G. W. Osborn	634,625	Oct. 10	1212	287	89	258
Paper. Manufacture of	W. K. Trotman	629,937	Aug 1	381	83	88	798
Paper. Manufacturing and finishing parchment-	J. Eiselstein	621,603	Mar. 21	1961	------	86	1906
Paper. Manufacturing corrugated	J. Arkell	623,695	Apr. 25	2752	630	87	585
Paper. Means for manufacturing corrugated	J. Arkell	623,696	Apr. 25	2752	631	87	585
Paper package and binder. Toilet	F. H. Hoberg	630,888	Aug. 15	2164	492	88	1183
Paper. Package of sanitary or toilet	J. T. Hoyt	634,459	Oct. 10	923	221	89	202
Paper pail	H. D. Thatcher	619,099	Feb. 7	570	121	86	920
Paper-pasting machine. Wall-	D. A. Kelley and G. J. Nicolai	631,642	Aug. 22	3552	801	88	1475
Paper perforating and winding machine	W. P. Kidder	624,050	May 2	182	39, 40	87	737
Paper-perforating machine	O. H. Hicks	622,682	Apr. 11	919	211, 212	87	194
Paper-perforating machine	O. H. Hicks	632,115	Aug. 29	4425	994, 995	88	1654
Paper-pile-jogging mechanism	W. C. Hopkins	623,371	Apr. 18	2175	499	87	453
Paper-perforator	W. S. Mendenhall	634,304	Oct. 3	628	153	89	126
Paper. Producing and fixing iridescent colors on	C. Henry	618,672	Jan. 31	3449	770	86	734
Paper. Producing water-marks in or on manufactured	T. A. Goodchild and A. C. T. Bond.	625,255	May 16	2375	------	87	1198
Paper-pulp-cleaning apparatus	A. Äberg	630,309	Aug. 8	1085	237	88	951
Paper-pulp digester	F. S. Lyman	620,243	Feb. 28	2644	603	86	1379
Paper-pulp-refining engine	E. R. Marshall	635,563	Oct. 24	2973	681, 682	89	634
Paper-pulp. Refining-engine of Jordan type for grinding	S. R. Wagg	625,818	May 30	3396	771	87	1440
Paper-pulp screen	H. E. Tidmarsh	627,244	June 20	1890	414, 415, 416	87	2020
Paper-pulp-straining apparatus	J. White	634,929	Oct. 17	1742	413, 414	89	379
Paper-reel	W. A. Libert	623,795	Apr. 25	2950	674	87	623
Paper-registering instrument	T. C. Dexter	625,092	May 16	2082	468, 469, 470	87	1142
Paper-registering instrument	T. C. Dexter	625,095	May 16	2102	476, 477	87	1146
Paper-registering instrument	T. C. Dexter	632,449	Sept. 5	435	97, 98	88	1793
Paper-registering instrument	T. C. Dexter	632,450	Sept. 5	438	98, 99	88	1793
Paper-registering mechanism	T. C. Dexter. (Reissue)	11,723	Mar. 14	1446	319, 320	86	1794
Paper-roll-delivery apparatus	H. J. Wendorff	628,257	July 4	573	137	88	112
Paper-rolling machinery. Guide-flange for	F. Succie	619,803	Feb. 21	1872	427	86	1218
Paper-sack holder and printer	G. H. Henkel and J. Kunz, Jr	639,678	Dec. 19	2757	636	89	2443
Paper. Sensitizing	J. Meyer	637,637	Nov. 21	3072	------	89	1612
Paper sheets. Apparatus for feeding	W. Kershaw	632,268	Sept. 5	109	23, 24, 25	88	1729
Paper. Slitting and registering sheets of	T. C. Dexter	625,093	May 16	2085	470, 471, 472	87	1143
Paper-softening machine	B. O. Hale	633,241	Sept. 19	1971	462	88	2122
Paper-stock. Machine for reducing	T. C. Cadwgan	620,884	Mar. 14	645	141, 142	86	1641
Paper-taking pin	L. C. Crowell	630,864	Aug. 15	2126	482	88	1175
Paper trimmer or cutter. Wall-	T. J. Empfield	621,299	Mar. 14	1420	314	86	1789
Paper-trimming guide	E. W. Comfort	632,915	Sept. 12	1349	311	88	1987
Paper-trimming machine	A. Allen	632,434	Sept. 5	400	91	88	1786
Paper-trimming machine	C. Seybold	627,598	June 27	2597	572	87	2176
Paper-trimming machine	C. Seybold	627,600	June 27	2602	573	87	2177
Paper-trimming tool	F. Erkenbreck	623,000	Apr. 11	1466	338	87	299
Paper tubes. Machine for refolding	H. R. Corkhill, Jr	624,754	May 9	1464	331, 332, 333, 334	87	1008
Paper vessel	W. M. Kinnard	616,938	Jan. 3	148	33	86	30
Paper vessel	W. M. Kinnard	616,939	Jan. 3	150	33	86	30
Paper vessel	W. M. Kinnard	617,401	Jan. 10	1045	237	86	222
Paper vessel	W. M. Kinnard	631,852	Aug. 29	3944	882	88	1560
Paper vessel	W. M. Kinnard	634,644	Oct. 10	1239	294	89	263
Paper vessel	J. G. Reber	635,349	Oct. 24	2524	587	89	546
Paper vessel	J. G. Reber	635,350	Oct. 24	2526	587	89	547
Paper webs. Roll for winding	J. H. Baker, G. F. Shevlin, and F. H. Baker.	629,976	Aug. 1	461	100	88	814
Paper-winding machine	J. J. Warren	631,513	Aug. 22	3322	754, 755	88	1429
Paper. Wire-netting for use in manufacturing	K. Kufferath	617,581	Jan. 10	1375	312	86	287
Paraffin. Removing green color from	A. Wendtland	618,307	Jan. 24	2768	------	86	589
Parcel-carrier	E. G. Stevens	622,288	Apr. 4	160	39	87	33
Parcel-carrier. Tourist's	H. C. Hall	637,733	Nov. 21	3247	676	89	1646
Parer. Apple-	D. F. Hunt	633,243	Sept. 19	1974	463	88	2123
Paring and coring machine	W. H. Boutell. (Reissue)	11,777	Oct. 17	2406	560, 561	89	508
Paring fruit, &c. Instrument for	C. C. Wallace	628,683	July 11	1400	326	88	290
Paring machine. Potato-	D. Williamson	633,932	Sept. 26	3218	750	88	2380
Parquetry	C. E. Rider	623,562	Apr. 25	2518	577	87	541
Partition. Expanded-metal	L. F. Sylvester	634,484	Oct. 10	968	232	89	211
Partition support	J. W. Rapp	631,940	Aug. 29	4089	917	88	1588
Passenger-elevator	J. McLean	620,245	Feb. 28	2647	603	86	1379
Passenger-recorder	A. Swenson	630,272	Aug. 1	991	218, 219	88	918
Passenger-register	O. C. Alspaugh	627,839	June 27	3024	660, 661	87	2260
Pasteboard box	J. Unser	624,408	May 2	844	190	87	863
Pastry-rolling machine	W Pratt	626,720	June 13	920	209	87	1811

Alphabetical list of inventions—Continued.

Invention.	Name.	No.	Date.	Monthly volume. Spec.	Monthly volume. Dr'g.	Official Gazette. Vol.	Official Gazette. Page.
Pattern-box	P. R. Wernicke	628,053	July 4	169	36	88	35
Pattern-chain support	J. Fulbaber	636,514	Nov. 7	494	110	89	1021
Pattern. Garment	R. S. O'Loughlin	632,361	Sept. 5	272	64	88	1761
Pattern. Sleeve	J. R. Van Dame	618,387	Jan. 24	2928	647	86	620
Patterns. Marking out	J. Marsden	626,182	May 30	4153	945	87	1581
Pavement. Cement-concrete	J. H. Amies	635,221	Oct. 17	2301	------	89	488
Pavement. Combined paper-pulp and cement	J. H. Amies	622,877	Apr. 11	1259	------	87	258
Pavement. Concrete	A. L. Johnson	618,956	Feb. 7	292	63	86	868
Pavement. Wooden-block	J. Buchtel	619,934	Feb. 21	2093	476	86	1261
Pavements. Apparatus for resurfacing asphalt	W. A. Tice	628,421	July 4	879	207	88	169
Paving-block	J. H. Amies	617,705	Jan. 17	1606	------	86	351
Paving, &c., and forming same. Composition of matter for	W. J. Burke	629,766	Aug. 1	12	------	88	724
Paving repair plant. Portable	F. A. Hetherington	637,869	Nov. 28	3517	735	89	1721
Pay-roll register	J. F. Knowles	622,050	Mar. 28	2813	634, 635	86	2087
Pea or bean separator	J. H. Baker	631,946	Aug. 29	4096	919	88	1589
Pea-rake	V. C. Devilliers	635,277	Oct. 17	2400	559	89	507
Peanut-gatherer	J. W. Pope	617,814	Jan. 17	1832	409	86	396
Peanut-roaster	N. R. H. Burnett	633,791	Sept. 26	2986	693	88	2334
Peat into blocks of fuel. Manufacturing	A. A. Dickson	621,802	Mar. 28	2354	527	86	1998
Peat. Producing press	H. Kerrinnes	621,923	Mar. 28	2583	582	86	2041
Peavey	C. Prouty	627,528	June 27	2448	539	87	2147
Peavey or cant-hook	C. Prouty	634,587	Oct. 10	1150	273, 274	89	246
Pedal	E. A. Barnes	622,034	Mar. 28	2788	628	86	2082
Pedal	G. F. Marchant	618,424	Jan. 31	3010	666	86	649
Pedal	H. Scherff	622,543	Apr. 4	651	153	87	123
Pedal	J. Wodiska	620,266	Feb. 28	2688	616	86	1388
Pedal and pedal-bearing	M. Matthews	630,463	Aug. 8	1427	319	88	1015
Pedal attachment	T. G. Avery	639,132	Dec. 12	1727	398	89	2222
Pedal attachment	W. E. Esperson	636,968	Nov. 14	1416	303	89	1233
Pedal attachment for automatic playing devices	R. W. Pain	630,557	Aug. 8	1598	357	88	1047
Pedal-crank connection for bicycles, &c	H. M. Kolb and C. Foehl	625,038	May 16	1982	443	87	1126
Pedal-crank extension attacbment	J. B. Young	628,173	July 4	405	95	88	82
Pedal for foot-driven machines	E. Klabn	620,784	Mar. 7	462	95	86	1592
Pedal-member pivot attachment	L. Lemieux and L. Haas	634,624	Oct. 10	1211	287	89	258
Pedals of bicycles, &c. Attachment for	W. Lowe	622,243	Apr. 4	76	18	87	18
Pedestal brace-bolt	J. F. Dunn	634,748	Oct. 10	1439	338	89	302
Peel. Baker's	H. E. Pauk	623,619	Apr. 25	2619	598	87	559
Pegging-machine	A. G. Leonard, A. Graffam, and B. R. Wolcott.	629,512	July 25	2922	680	88	624
Pelt-plucking machine	J. W. Sutton	618,625	Jan. 31	3357	746, 747	86	715
Pelt-plucking machine	J. W. Sutton	635,879	Oct. 31	3572	822	89	763
Pen	J. Weeks	625,995	May 30	3730	845	87	1504
Pen attachment	F. W. Cameron	638,556	Dec. 5	694	147	89	1998
Pen-bar banking-zinc	E. M. Jillson	637,797	Nov. 28	3363	705	89	1689
Pen-cleaner	W. Robinson	620,674	Mar. 7	244	50	86	1549
Pen. Fountain	S. D. Ball	618,976	Feb. 7	355	73	86	878
Pen. Fountain	J. Blair	620,216	Feb. 28	2604	592	86	1371
Pen. Fountain	C. W. Boman	618,385	Jan. 24	2927	646	86	620
Pen. Fountain	C. W. Boman	632,633	Sept. 5	758	174	88	1857
Pen. Fountain	G. W. Bryant and T. C. Townsend	623,461	Apr. 18	2325	533	87	486
Pen. Fountain	J. H. Burton	618,164	Jan. 24	2523	559	86	543
Pen. Fountain	J. H. Burton	628,690	July 11	1422	330	88	296
Pen. Fountain	D. C. Demarest	634,398	Oct. 3	812	196	89	162
Pen. Fountain	W. I. Ferris	625,722	May 23	3183	723	87	1381
Pen. Fountain	A. A. Hofmann	623,474	Apr. 18	2350	540	87	491
Pen. Fountain	B. F. Marsb	637,631	Nov. 21	3064	634	89	1610
Pen. Fountain	S. J. Meyerpeter	629,519	July 25	2937	683	88	627
Pen. Fountain	O. R. Mitchell	634,013	Oct. 3	59	16	89	16
Pen. Fountain	E. E. Nelthorpe and G. H. Williamson.	632,320	Sept. 5	206	47	88	1747
Pen. Fountain	G. S. Parker	622,256	Apr. 4	95	22	87	22
Pen. Fountain	G. S. Parker	635,700	Oct. 24	3211	740	89	682
Pen. Fountain	E. Reisert	634,029	Oct. 3	83	22	89	21
Pen. Fountain	R. P. Robinson	631,823	Aug. 29	3889	868	88	1549
Pen. Fountain	R. P. Robinson	631,824	Aug. 29	3890	868	88	1549
Pen. Fountain	W. W. Stewart	631,909	Aug. 29	4029	902	88	1577
Pen. Fountain	A. A. Waterman	619,701	Feb. 14	1656	380	86	1151
Pen. Fountain	A. A. Waterman	619,702	Feb. 14	1658	381	86	1151
Pen. Fountain	A. A. Waterman	638,779	Dec. 12	1112	249	89	2104
Pen. Fountain	A. A. Waterman and F. W. Stevens	633,538	Sept. 19	2502	588	88	2224
Pen. Fountain	F. R. Wolter	637,439	Nov. 21	2343	506	89	1429
Penholder	J. L. Carney	628,261	July 4	579	138	88	113
Penholder	J. Fischbach and L. Henss	627,776	June 27	2910	636	87	2238
Penbolder	G. Oberbeck	624,853	May 9	1666	377	87	1047
Penholder	F. J. Otis	618,255	Jan. 24	2673	592	86	570
Penholder	C. P. Swett	629,972	Aug. 1	458	99	88	814
Penholder	W. Thurman	630,133	Aug. 1	759	164	88	873
Penholder and pencil-case calendar attachment	G. N. Vitanoff	636,593	Nov. 7	640	141	89	1051
Penholder and pencil-point protector	E. Barlach	639,499	Dec. 19	2419	558	89	2376
Penholder attachment	C. A. Faust	629,436	July 25	2753	640	88	593
Penholders. Construction of reservoir	S. N. B. Westlake	618,967	Feb. 7	309	67	86	870
Pen ink-holder	T. Quinlan	617,541	Jan. 10	1295	293	86	272
Pen. Line	L. H. Zeigler	623,391	Apr. 18	2207	506	87	461
Pen. Metallic	F. J. W. Fischer	629,007	July 18	1980	462	88	422
Pen or trap. Animal	J. D. Fox	629,675	July 25	3200	746	88	678
Pen-rack	A. L. Rauch	622,864	Apr. 11	1223	285	87	251
Pen. Ruling	A. G. Raycraft	633,660	Sept. 26	2758	641	88	2288
Pen. Self-filling fountain	W. W. Stewart	630,526	Aug. 8	1543	344	88	1036
Pen. Self-filling fountain	W. W. Stewart	630,527	Aug. 8	1546	344	88	1037
Pen. Stock	F. B. Linn	619,688	Feb. 14	1624	371	86	1144
Pen-wiper	I. N. Weitzel	626,197	May 30	4190	952	87	1588
Pen yielding support	J. J. Jones	616,931	Jan. 3	126	28	86	26

Alphabetical list of inventions—Continued.

Invention.	Name.	No.	Date.	Monthly volume.		Official Gazette.	
				Spec.	Drg.	Vol.	Page.
Pens. Detachable fountain or reservoir for	J. K. Young	619,528	Feb. 14	1339	308	86	1091
Pencil	A. D. Grover	638,923	Dec. 12	1365	311	89	2152
Pencil	A. J. Keck	635,688	Oct. 24	3192	735	89	677
Pencil	R. R. Rakestraw	620,051	Feb. 21	2307	524	86	1300
Pencil and pen holder. Combined	J. Ewald	637,103	Nov. 14	1672	362	89	1282
Pencil-holder	W. P. Burris	638,796	Dec. 12	1145	255	89	2110
Pencil-holder	A. Klein	631,644	Aug. 22	3555	801	88	1475
Pencil-holder	L. A. and W. H. Parker	637,889	Nov. 28	3552	744	89	1729
Pencil holder and sharpener. Combined	J. R. Vestal	631,834	Aug. 29	3911	874	88	1554
Pencil-holder. Pocket	F. W. Everett	627,056	June 13	1565	342	87	1935
Pencil. Lead-	F. H. Lippincott	627,512	June 27	2421	532	87	2141
Pencil. Magazine-	B. B. Goldsmith	618,172	Jan. 24	2534	561	86	544
Pencil or pen holder	G. E. Smith	626,728	June 13	936	212	87	1814
Pencil. Sectional	J. E. Hager	637,384	Nov. 21	2251	484	89	1411
Pencil-sharpener	H. Buchanan	622,882	Apr. 11	1268	292	87	259
Pencil-sharpener	P. R. Buckelew	636,112	Oct. 31	4052	927	89	859
Pencil-sharpener	H. Eichler	631,930	Aug. 29	4070	913	88	1584
Pencil-sharpener	W. E. Patchin	627,874	June 27	3088	676	87	2272
Pencil-sharpener and eraser. Combined	J. D. Stassart	627,279	June 20	1954	430	87	1033
Pencil-sharpening machine	H. K. Wheeler	620,862	Mar. 7	607	132	86	1622
Pencils, penholders, &c. Combination attachment for	W. W. Dodge	617,149	Jan. 3	562	132	86	110
Pendulum beat-adjuster	H. D. Keeler	629,370	July 25	2640	613	88	569
Pendulum-escapement	C. T. E. Zimmerman	633,938	Sept. 26	3226	752	88	2382
Pendulum escapement. Gyrating-	F. Gundorph	626,807	June 13	1083	244	87	1842
Perambulator	G. D. Leadbetter	622,503	Apr. 4	563	132	87	106
Perambulator	W. J. Streng	636,582	Nov. 7	623	137	89	1048
Perambulator. Cycle-	A. C. Kuster	622,500	Apr. 4	559	131	87	106
Perambulator. Reclining-	C. B. Jones	626,025	May 30	3835	870	87	1523
Perambulator. Reclining-	C. B. Jones	628,983	July 18	1936	451, 452	88	414
Percolator	E. B. Atkins	633,412	Sept. 19	2303	541	88	2186
Percolator	J. A. E. Bernard	621,990	Mar. 28	2716	613	86	2067
Percolator for tea or coffee pots	B. A. Bourie	638,698	Dec. 12	980	218	89	2077
Percolator-package	H. M. Humphrey	618,677	Jan. 31	3456	771	86	735
Percussion-tape and making same	I. M. Rose	618,997	Feb. 7	394	82	86	887
Percussive-tool shield	W. French	628,455	July 11	946	220	88	202
Perfecting-press. Flat-bed	H. Stamm	628,557	July 11	1147	267, 268	88	241
Perforating and inking machine	E. B. Hess	629,076	July 18	2103	491, 492	88	447
Perforating-machine	J. J. Flett	620,436	Feb. 28	2973	681	86	1442
Perforating-machine	H. S. Griffin	617,012	Jan. 3	285	63, 64	86	57
Perforating-machine	F. W. Hedgeland	638,242	Dec. 5	67	16, 17	89	1880
Perforating-machine. Electromechanical	G. H. Davis	630,598	Aug. 8	1672	375, 376	88	1062
Perforating-machine feeder	C. S. Perkins	634,246	Oct. 3	515	131	89	104
Perforator	E. R. Storm	622,088	Mar. 28	2868	646, 647	86	2098
Perforator. Check-	E. B. Hess and A. S. Grauger	621,455	Mar. 21	1699	376	86	1856
Permutation-lock	J. H. Christie	621,992	Mar. 28	2719	614	86	2068
Permutation-lock	R. W. Inglis	635,549	Oct. 24	2946	673	89	629
Permutation-lock	J. H. Morris	632,735	Sept. 12	1005	234	88	1920
Permutation-lock	C. A. Nash	619,779	Feb. 21	1819	416	86	1209
Permutation-lock	A. S. Winston	637,688	Nov. 21	3177	658, 659	89	1632
Permutation-lock	T. J. Zoeller	633,711	Sept. 26	2858	664	88	2308
Permutation-lock	T. J. Zoeller	636,882	Nov. 14	1245	268	89	1200
Permutation-lock	T. J. Zoeller	636,883	Nov. 14	1247	268	89	1200
Pessary	E. D. Gray	618,865	Feb. 7	91	19	86	822
Petroleum and producing same. Solidified	M. Ekenberg	620,899	Mar. 14	672		86	1647
Petroleum-burner	C. C. Bruckner	632,865	Sept. 12	1243	284	88	1969
Petroleum. Cleansing purifying agent employed in purifying	H. Frasch	630,496	Aug. 8	1483	332	88	1025
Petroleum-motors. Regulating device for	E. E. F. Fagerström	622,798	Apr. 11	1103	256	87	229
Petroleum or similar motor	F. P. Gautier	630,213	Aug. 1	894	197	88	899
Petroleum. Process of and apparatus for purifying	H. Frasch	622,799	Apr. 11	1104	256	87	229
Petroleum. Refining	F. Berg	623,066	Apr. 11	1575		87	321
Pew rope and lock	W. H. Clark and L. J. Wattson	629,661	July 25	3170	739	88	673
Pharmaceutical compound and making same	A. Busch	621,791	Mar. 28	2326		86	1993
Pharmaceutical compound and making same	A. Eichengrün	622,455	Apr. 4	457		87	85
Pharmaceutical compound and making same	A. Eichengrün	626,413	June 6	370		87	1685
Phase adjustment	T. Duncan	623,526	Apr. 25	2449	563, 564	87	528
Phonograph	G. Bettini	618,390	Jan. 31	2942	651, 652	86	637
Phonograph	G. Bettini	635,120	Oct. 17	2124	497	89	455
Phonograph	J. Chania	631,558	Aug. 22	3410	771	88	1446
Phonograph	T. A. Edison	622,843	Apr. 11	1195	278	87	246
Phonograph	L. Rosenthal	638,674	Dec. 5	926	206, 207	89	2048
Phonograph-cylinder cabinet	E. U. Kinsey	626,543	June 6	593	136	87	1729
Phonograph or graphophone record holder	C. A. Gildemeyer	618,031	Jan. 17	2225	496	86	472
Phonograph-record box	W. M. Maynadier	638,734	Dec. 12	1046	234	89	2090
Phonographs, &c. Diaphragm-plate for	W. W. Cridge	634,326	Oct. 3	682	165	89	137
Phonographs. Multiple mandrel attachment for	A. B. Robinson	634,025	Oct. 3	76	20	89	19
Phonographic-record cabinet	C. Mueller	638,586	Dec. 5	749	161	89	2009
Phorometer	J. F. Byington	637,955	Nov. 28	3663	769, 770	89	1750
Phosphate. Apparatus for mining, transporting, washing, and drying pebble	L. R. McLain	630,395	Aug. 8	1277	279, 280	88	988
Phosphorus. Apparatus for making	L. L. Billaudot	638,548	Dec. 5	681	143	89	1996
Photochromoscope or photochromoscope-camera	F. E. Ives	635,253	Oct. 17	2348	548	89	497
Photograph-display device	W. C. Romans	627,355	June 20	2109	466	87	2064
Photograph-holder	J. N. Goldborg	632,649	Sept. 5	802	187	88	1866

Alphabetical list of inventions—Continued.

Invention.	Name.	No.	Date.	Monthly volume. Spec.	Monthly volume. Dr'g.	Official Gazette. Vol.	Official Gazette. Page.
Photograph-mounting	A. C. T. Gross	630,215	Aug. 1	897	198	88	899
Photograph-protector	J. T. Ferres	633,360	Sept. 19	2205	518	88	2167
Photograph-shutter	R. S. Atwater	624,729	May 9	1423	320	87	999
Photographs. Method of and apparatus for making panoramic	E. Hopkinson	638,582	Dec. 5	743	159 160	89	2008
Photographer's printing and embossing press	W. A. Billman	619,713	Feb. 21	1689	387	86	1183
Photographer's tray	W. H. Lewis	632,220	Aug. 29	4619	1041	88	1691
Photographic apparatus	A. and L. Lumière	634,560	Oct. 10	1111	263	89	239
Photographic apparatus. Adjusting device between tripods and cameras of	A. H. Spurr	631,031	Aug. 15	2440	554	88	1236
Photographic apparatus. Locking attachment for	E. G. Goodell and W. B. Haskins	636,036	Oct. 31	3878	891	89	824
Photographic-background carrier	E. A. Nelson	638,744	Dec. 12	1058	237	89	2092
Photographic-background carrier	C. A. Snow	624,111	May 2	301	63	87	758
Photographic burnisher	U. Nehring	626,555	June 6	609	140	87	1732
Photographic character	J. T. Bentley	632,435	Sept. 5	402	92	88	1787
Photographic character	J. T. Bentley	632,670	Sept. 5	854	199	88	1878
Photographic dark room	N. Harrison	617,017	Jan. 3	296	65	86	59
Photographic developer and process of developing	A. Bogisch	619,066	Feb. 7	511	------	86	910
Photographic developing apparatus	A. Gooder	622,141	Mar. 28	2984	674	86	2121
Photographic developing apparatus	J. K. Graeme	630,500	Aug. 8	1489	333	88	1026
Photographic developing apparatus	A. Schwarz	623,337	Apr. 25	3033	697	87	639
Photographic developing apparatus	N. Wight	616,999	Jan. 3	259	58, 59	86	52
Photographic film	F. C. Axtell	623,963	May 2	3	------	87	703
Photographic-film roll	C. Whitney	626,356	June 6	275	62	87	1667
Photographic-film roll	C. Whitney	626,357	June 6	276	63	87	1667
Photographic-film support	C. E. Doyle	638,916	Dec. 12	1352	309	89	2150
Photographic films. Holding and spacing device for	H. W. Munsey	632,736	Sept. 12	1006	234	88	1920
Photographic finder	W. Mayo	624,359	May 2	754	169	87	844
Photographic finder	A. C. Mercer	624,517	May 9	1056	238	87	927
Photographic-finder cover	W. G. Harris	639,564	Dec. 19	2546	584	89	2401
Photographic-light stand	F. Schanz	628,286	July 4	625	148	88	121
Photographic lighting apparatus	G. Bouillaud	624,164	May 2	417	85	87	779
Photographic negatives. Apparatus for marking	J. G. Baker	639,496	Dec. 19	2416	457	89	2375
Photographic objective	C. P. Goerz and E. von Höegh	635,472	Oct. 24	2815	642	89	605
Photographic or other purposes. Producing cellulose films for	J. C. Chorley	634,571	Oct. 10	1126	267	89	242
Photographic paper and making same. Sensitized	V. Mathieu and F. Dery	624,837	May 9	1641	------	87	1042
Photographic paper. Sensitized metallic-coated	H. Kuhn	640,137	Dec. 26	3590	826	89	2630
Photographic-plate-changing apparatus	J. Stark	622,402	Apr. 4	343	78, 79	87	64
Photographic-plate holder	H. H. Altschwager and L. E. Joy	618,763	Jan. 31	3604	805	86	764
Photographic-plate holder	W. H. Lewis	628,889	July 11	1758	411	88	363
Photographic-plate holder	M. C. Rypinski	625,275	May 16	2408	546	87	1204
Photographic-plate holder	G. C. Stanley	620,373	Feb. 28	2875	658	86	1424
Photographic-plate washer	F. R. Hall	617,335	Jan. 10	918	211 212	86	198
Photographic plates. Simultaneously developing and fixing	P. Hanneke	634,137	Oct. 3	294	------	89	62
Photographic-print holder	J. G. Baker	627,069	June 13	1584	346	87	1939
Photographic prints, &c. Machine for mounting	W. R. Tobias	636,474	Nov. 7	416	93	89	1005
Photographic printing	T. Manly	628,012	July 4	100	------	88	21
Photographic-printing frame	W. McDade	628,347	July 4	752	174	88	145
Photographic-printing frame and retouching-stand. Combined	J. L. Brouse	637,745	Nov. 21	3270	682	89	1651
Photographic-printing process	D. C. S. Schultz-Hencke	623,491	Apr. 18	2378	------	87	496
Photographic process	H. S. Williams	640,060	Dec. 26	3453	------	89	2602
Photographic projecting-machine	W. V. Miller and G. P. Rice	623,410	Apr. 18	2239	513	87	467
Photographic purposes. Three-lens system for	C. P. Goerz and E. von Höegh	635,473	Oct. 24	2817	643	89	605
Photographic shutter	H. B. Carlton and E. F. Hathaway	636,224	Oct. 31	4254	978	89	899
Photographic shutter	E. F. Edgecomb	638,103	Nov. 28	3964	834	89	1807
Photographic shutter	W. V. Esmond	621,332	Mar. 21	1485	329	86	1815
Photographic shutter	W. V. Esmond	622,611	Apr. 4	763	177	87	145
Photographic shutter	M. F. Juruick	639,993	Dec. 26	3338	764	89	2577
Photographic shutter	F. H. Kelley	622,955	Apr. 11	1387	319	87	283
Photographic shutter	G. C. O. Lange	617,900	Jan. 17	2002	446	86	429
Photographic shutter	J. A. Mosher	618,799	Jan. 31	3672	823	86	778
Photographic shutter	J. E. Thornton	624,705	May 9	1385	309 310	87	991
Photographic shutter	P. and E. F. Wallis	627,027	June 13	1511	330	87	1925
Photographic shutters. Time-regulator for	H. Bate	630,644	Aug. 8	1753	393 394	88	1077
Photographic tray	E. Nollenberg	633,148	Sept. 19	1790	421	88	2085
Photographic washing apparatus	C. W. Blodget	628,917	July 18	1825	424 425	88	393
Photographic washing apparatus	A. Studdiford	633,922	Sept. 26	3206	747	88	2378
Photographic washing-box	H. Burke and D. James	620,565	Mar. 7	14	3	86	1505
Photographic washing-tank	E. A. Dobbins	633,818	Sept. 26	3026	703	88	2343
Photometer	W. F. Smith	632,285	Sept. 5	149	34	88	1737
Photoprinting processes. Manufacture of screens for	T. Herbst	628,536	July 11	1106	258	88	233
Photoreproductiou process	J. T. Bentley	632,436	Sept. 5	406	92	88	1787
Photoreproduction process and apparatus	J. T. Bentley	625,734	May 30	3217	731 732	87	1406
Photosensitive composition	R. B. West	625,527	May 23	2851	------	87	1316
Piano	J. H. Bell	637,069	Nov. 14	1617	350	89	1272
Piano	K. Grienauer	622,464	Apr. 4	484	113	87	90
Piano	A. Richter	622,782	Apr. 11	1073	249	87	223
Piano	A. Richter	622,783	Apr. 11	1075	250	87	223
Piano	H. Ziegler	634,282	Oct. 3	585	145	89	117
Piano-action	J. F. Conover	638,798	Dec. 12	1148	256 257	89	2110
Piano-action	F. K. Kurtz	628,181	July 4	421	99	88	85
Piano-action	A. D. Luvene	630,000	Aug. 1	513	112	88	824
Piano-action	M. Steinert	625,127	May 16	2154	489	87	1156
Piano-action	M. Steinert	625,128	May 16	2156	489	87	1156
Piano-action	M. Steinert	625,129	May 16	2158	489	87	1157

Alphabetical list of inventions—Continued.

Invention.	Name.	No.	Date.	Monthly volume. Spec.	Monthly volume. Dr'g.	Official Gazette. Vol.	Official Gazette. Page.
Piano-action and touch-regulator therefor	F. W. Kringel	619,964	Feb. 21	2147	487 488	86	1271
Piano action. Grand	J. Herrburger	629,362	July 25	2625	610	88	565
Piano attachment	W. J. Nickerson	627,739	June 27	2847	623	87	2225
Piano attachment	C. C. Polk	637,663	Nov. 21	3121	647	89	1621
Piano-brace. Metal	H. W. Gray	632,260	Sept. 5	94	20, 21	88	1725
Piano. Electric	G. Schrade and H. W. Shonnard	624,382	May 2	799	179	87	854
Pianoforte-action	F. C. Gillette and A. J. Flint	633,189	Sept. 19	1861	438	88	2100
Pianoforte-action	T. C. Lewis	639,255	Dec. 19	1959	451	89	2283
Pianoforte-action	E. L. Willeford	617,411	Jan. 10	1069	244	86	227
Pianoforte and mechanical music-work. Combined	F. W. Ofsky	635,387	Oct. 24	2627	606	89	568
Pianoforte-flange	C. A. Osterberg	634,474	Oct. 10	949	225	89	207
Piano front. Upright	A. Richter	637,160	Nov. 14	1801	386	89	1306
Piano-hammer	J. Oster, Jr	622,065	Mar. 28	2833	638	86	2091
Piano hammer-head	S. W. Durham	620,430	Feb. 28	2959	678	86	1439
Piano harp attachment	J. V. Steger	623,600	Apr. 25	2743	628	87	583
Piano-pedal. Auxiliary	H. F. Spurr, Jr	628,963	July 18	1905	443	88	408
Piano plate and back. Combined	F. V. Neuville	625,848	May 30	3449	783	87	1450
Piano pupil's hand-support	H. Kuerschner	627,646	June 27	2686	589	87	2194
Piano sounding-board	C. Schmidtlein	635,872	Oct. 31	3562	820	89	762
Piano sounding-board	E. Zoëga	625,824	May 30	3408	774	87	1442
Piano-string-loop machine	J. Monighan and H. Brainard	630,910	Aug. 15	2210	503	88	1191
Piano-string-winding machine	J. Monighan and H. Brainard	634,266	Oct. 3	558	138 139	89	112
Piano tuning-pin	L. Walker	638,154	Nov. 28	4062	857	89	1826
Piano. Upright grand	H. W. Gray	629,072	July 18	2095	489	88	445
Pianos. Acoustic supporting-base for	F. A. Bronson	639,016	Dec. 12	1535	352	89	2185
Pianos. Attachment for automatically operating	G. H. Davis	629,103	July 18	2161	502	88	459
Pianos. Automatic playing attachment for	T. J. Poole	622,260	Apr. 4	102	23 24 25	87	23
Pianola-guide	R. W. Pain	630,558	Aug. 8	1599	357	88	1048
Pick	F. Kortick	617,105	Jan. 3	471	113	86	92
Pick. Miner's	E. Daly	618,377	Jan. 24	2892	641	86	611
Pick. Miner's	J. B. Lucas	623,025	Apr. 11	1517	351	87	310
Pick or like tool	W. H. Prest	620,077	Feb. 21	2346	532	86	1308
Pick or plectrum	F. Menzenhauer	633,877	Sept. 26	3134	727	88	2364
Picker: *See* Cucumber-picker. Hair-picker. Fruit-picker. Slate-picker.							
Picker-cam point	R. M. Holt and P. L. Hazlewood	630,227	Aug. 1	915	200	88	903
Picker lug-straps. Press for forming	C. W. Lyon	633,870	Sept. 26	3122	724	88	2362
Picker-stick check	G. O. Draper and J. H. Northrop	632,553	Sept. 5	643	149	88	1834
Pickle. Apparatus for making dry	W. D. Baker	626,780	June 13	1041	233	87	1835
Pictorial reproduction	J. Jacobson	624,042	May 2	165	36	87	734
Picture-exhibitor	G. and J. Maddox	634,146	Oct. 3	306	78	89	64
Picture-exhibitor	A. Peterson	625,939	May 30	3616	822	87	1482
Picture-exhibitor and table. Combined	J. Lamac	623,164	Apr. 18	1805	413	87	380
Picture-exhibitor. Automatic	J. Heissenberger	624,801	May 9	1558	355 356 357	87	1027
Picture-exhibitor. Coin-controlled	C. T. Hunt	626,425	June 6	385	90	87	1689
Picture-frame	J. F. Hathaway	619,743	Feb. 21	1746	399	86	1193
Picture-frame	A. E. Kintner	630,240	Aug. 1	945	207	88	909
Picture-frame	E. McDonald	623,253	Apr. 18	1958	447	87	410
Picture-frame	E. Oldenbusch	631,657	Aug. 22	3578	806	88	1480
Picture-frame	H. R. Turner	636,592	Nov. 7	639	141	89	1051
Picture-frame hanger	M. L. Rich	619,438	Feb. 14	1194	270	86	1061
Picture-frame hanger	A. L. Thompson and S. H. Allen	634,190	Oct. 3	381	97	89	78
Picture-frames. Device for bending moldings to form	L. A. Belmont	639,342	Dec. 19	2125	489	89	2317
Picture-hanging device	E. H. Cox	623,655	Apr. 25	2679	615	87	570
Picture hanging or removing device	C. E. Baldwin	629,760	Aug. 1	4	1	88	722
Picture-mounting press	J. A. Brandon	637,228	Nov. 21	1951	416	89	1350
Picture-support	H. R. Brown	620,271	Feb. 28	2693	618	86	1389
Picture. Transfer	C. Troeger	617,868	Jan. 17	1935	433	86	417
Picture. Transparent	P. R. Camp	636,319	Nov. 7	155	34	89	952
Pictures on stone	E. Wagner	623,052	Apr. 11	1554	------	87	317
Pictures or advertisements. Apparatus for producing successively-changing	C. Fougerat	617,244	Jan. 3	723	168	86	141
Pie or cake cutter	J. L. Gans	634,330	Oct. 3	696	166	89	139
Pie-plate lifter	W. P. Murphy	626,289	June 6	126	32	87	1637
Pie-rack	E. V. Anderson	618,317	Jan. 24	2782	617	86	591
Pie rack and case	B. T. Webber	636,596	Nov. 7	644	142	89	1052
Pie raising, trimming, and lidding machine	J. Hughes	622,478	Apr. 4	523	123	87	99
Piercing and eyeleting machine	T. Wearden	629,000	July 18	1969	458	88	421
Piercing-press. Vertical	E. F. Holinger	638,808	Dec. 12	1169	261 262	89	2114
Piercing solid billets for producing hollow metallic objects.	E. F. Holinger	638,806	Dec. 12	1165	260	89	2113
Piers. Hoisting apparatus for	E. Morrison	636,161	Oct. 31	4136	947	89	876
Piers or dams. Constructing	H. C. W. Weyhe	635,165	Oct. 17	2203	514	89	470
Pig-breaking machine	A. E. Brown	628,069	July 4	202	45, 46	88	40
Pigment. Making	T. J. O'Sullivan	629,268	July 18	2439	------	88	509
Pile	S. K. Behrend	639,884	Dec. 26	3123	718	89	2533
Pile. Cast-metal	M. Goldberger	637,728	Nov. 21	3239	674	89	1644
Pile-driver	A. C. Speer	628,962	July 18	1903	442	88	497
Pile-driver. Derrick	N. Simonson	628,128	July 4	320	76	88	64
Pile fabrics. Apparatus for cutting pile of	G. Motte	620,951	Mar. 14	772	169	86	1664
Pile for manufacturing bars	R. A. Carter	623,652	Apr. 25	2675	614	87	569
Pile for manufacturing shafts, &c	R. A. Carter	623,653	Apr. 25	2676	614 615	87	569
Piles. Driving	T. A. Kearns	625,978	May 30	3697	840	87	1498
Piling. Sheet	W. D. Washington	624,714	May 9	1401	313 314	87	995
Pillow-holder	J. P. Morris	629,199	July 18	2325	539	88	489

Alphabetical list of inventions—Continued.

Invention.	Name.	No.	Date.	Monthly volume. Spec.	Monthly volume. Drg.	Official Gazette. Vol.	Official Gazette. Page.
Pillow-sham holder	A. N. Heatley	631,305	Aug. 22	2939	665	88	1352
Pillow-sham holder	U. S. Huggins	623,719	Apr. 25	2783	637	87	590
Pillow-sham holder	B. F. Schrock	618,440	Jan. 31	3039	672	86	654
Pillow-sham holder	J. P. Williams	634,784	Oct. 10	1485	350	89	312
Pilot-coupling	S. A. Teal and C. C. McPherson	630,575	Aug. 8	1631	364, 365	88	1054
Pin: *See* Clothes-pin, Cotter-pin, Coupling-pin, Curtain-pin, Hair-pin, Hat-pin, Paper-taking pin, Pivot-pin, Safety-pin, Scarf-pin, Spoke-pin, Upholstery-pin, Tag-pin, Wrist-pin.							
Pin	F. B. Hay	635,249	Oct. 17	2341	546	89	495
Pincushion	W. Bernard	633,181	Sept. 19	1848	435	88	2097
Pin-lock	H. G. Voight	621,875	Mar. 28	2483	554	86	2024
Pin-ring. Utility	H. C. Shaw	626,797	June 13	1064	239	87	1839
Pin-tumbler lock	F. and H. F. Keil	623,674	Apr. 25	2713	622	87	577
Pins, &c. Method of and apparatus for manufacturing headed	G. W. Lee	621,832	Mar. 28	2405	537	86	2008
Pince-nez	W. Salt	620,675	Mar. 7	245	50	86	1550
Pinking-cutters. Die for making	H. A. Hannum	623,602	Apr. 25	2594	593	87	555
Pipe: *See* Blowpipe, Conduit-pipe, Furnace hot-air pipe, Heating and ventilating pipe, Locomotive exhaust-pipe, Sewer or drain pipe, Tobacco-pipe, Tobacco smoking-pipe, Water and steam pipe.							
Pipe	F. Holberg	621,918	Mar. 28	2574	580	86	2040
Pipe and nut wrench	A. H. Adams	618,313	Jan. 24	2777	615	86	590
Pipe and rod wrench	N. P. Eastman	618,075	Jan. 24	2328	519	86	507
Pipe-bending apparatus	H. F. Condon	620,227	Feb. 28	2620	596	86	1374
Pipe-bending machine	J. W. Bragger	632,635	Sept. 5	763	175, 176	88	1858
Pipe-carrier	B. F. Williston	629,408	July 25	2712	630	88	584
Pipe-case. Smoker's	J. H. Tierney	630,756	Aug. 8	1929	435	88	1111
Pipe-clamp	S. Shanahan	627,537	June 27	2470	544	87	2150
Pipe-clamp	H. A. Wahlert	622,739	Apr. 11	999	232	87	209
Pipe-clamp	H. A. Wahlert	630,428	Aug. 8	1359	303, 304	88	1002
Pipe-cleaning attachment	H. Wenz	624,715	May 9	1403	314	87	995
Pipe connection	W. H. Burnett	622,326	Apr. 4	227	51	87	43
Pipe connection	E. H. Israel	617,251	Jan. 3	732	170	86	143
Pipe-core	J. W. Bonta	639,508	Dec. 19	2434	562	89	2379
Pipe-coupling	C. A. Bailey	635,636	Oct. 24	3103	713	89	660
Pipe-coupling	S. R. Dresser	625,155	May 16	2193	498	87	1163
Pipe-coupling	P. H. Farrey	617,728	Jan. 17	1650	371	86	361
Pipe-coupling	W. J. Henning	634,344	Oct. 3	722	171	89	144
Pipe-coupling	A. B. Henry and T. F. Mullin	634,820	Oct. 10	1550	364	89	324
Pipe-coupling	H. O. Kelsey	634,087	Oct. 3	182	46	89	40
Pipe-coupling	J. McCreery	631,376	Aug. 22	3061	693	88	1376
Pipe-coupling	J. S. McDonald	639,198	Dec. 12	1855	427	89	2247
Pipe-coupling	M. Musgreave	617,761	Jan. 17	1712	384	86	372
Pipe-coupling	H. F. Noyes	637,888	Nov. 28	3548	744	89	1728
Pipe-coupling	N. Simmons	618,587	Jan. 31	3298	733	86	704
Pipe-coupling	C. R. Smith and H. F. Lisle	626,937	June 13	1356	298	87	1895
Pipe-coupling device	C. Luke	633,325	Sept. 19	2144	502	88	2156
Pipe coupling or connection	C. Luke	633,324	Sept. 19	2142	502	88	2155
Pipe-coupling rust-guard	J. E. Windle	620,265	Feb. 28	2687	616	86	1388
Pipe coupling. Train-	J. Redfern	629,469	July 25	2817	655	88	605
Pipe-covering	J. A. Scharwath	621,151	Mar. 14	1158	251	86	1738
Pipe-covering. Non-conducting	W. G. Chapin	639,523	Dec. 19	2458	568	89	2383
Pipe cutting and threading tool	F. C. Walter and H. F. Repkow	619,643	Feb. 14	1549	353	86	1130
Pipe-cutting tool	J. W. Fletcher	628,403	July 4	847	199	88	162
Pipe drainage and venting fitting. Combination soil-	F. Walker	635,619	Oct. 24	3074	705	89	655
Pipe-fitting	C. W. Dietrich	624,193	May 2	454	95	87	787
Pipe-fitting	B. O. Tilden	626,944	June 13	1366	300	87	1897
Pipe fitting. Wrought-metal-	J. J. Lawler	622,897	Apr. 11	1292	298	87	264
Pipe-hanger	T. Fee and T. Mason	632,705	Sept. 12	951	220	88	1909
Pipe-hanger	S. O'Brien	624,671	May 9	1321	294	87	979
Pipe-hanger	F. L. Watson	635,885	Oct. 31	3582	824	89	765
Pipe-hanger	G. M. Willment	622,743	Apr. 11	1007	234	87	211
Pipe-joining apparatus	J. W. Abrahams	628,643	July 11	1333	310, 311	88	278
Pipe-joint	D. McDonald	627,673	June 27	2730	598	87	2202
Pipe-joint	J. F. Pool	619,437	Feb. 14	1193	269	86	1061
Pipe-joint and hose-coupling	W. F. Reed and W. O. S. Piper	626,932	June 13	1348	296	87	1893
Pipe joint. Drain or sewer	J. B. Hamilton	634,136	Oct. 3	293	74, 75	89	62
Pipe-joint. Flexible	C. H. Weaver and L. H. Houghton	622,305	Apr. 4	192	42	87	36
Pipe-joint for hollow revolving journals	T. H. Savery	635,512	Oct. 24	2880	657	89	616
Pipe-joint preparing and welding machine	H. V. Hartz	633,136	Sept. 19	1763	415, 416	88	2080
Pipe joint. Thin-metal-	P. E. Preschlin	622,534	Apr. 4	638	150	87	121
Pipe leak-stopper	C. Eibee	624,770	May 9	1500	340	87	1015
Pipe lifting or lowering machine	L. D. Mouser	627,007	June 13	1486	325, 326	87	1921
Pipe-lining machine	F. E. Keyes	618,418	Jan. 31	3000	664	86	648
Pipe lock-seam. Sheet-metal-	L. Brucks	632,440	Sept. 5	421	93	88	1789
Pipe. Manufacture of welded	T. J. Bray	618,327	Jan. 24	2797	620, 621	86	594
Pipe or boiler covering	H. C. Michell	620,476	Feb. 28	3036	695	86	1454
Pipe or tube collar	F. W. Barthels	639,010	Dec. 12	1529	350	89	2184
Pipe or tube coupling	C. L. Travis	629,705	July 25	3249	756	88	687
Pipe-patch	B. A. Rucker	631,179	Aug. 15	2698	610	88	1287

Alphabetical list of inventions—Continued.

Invention.	Name.	No.	Date.	Monthly volume.		Official Gazette.	
				Spec.	Dr'g.	Vol.	Page.
Pipe plug. Waste-	J. H. Little	629,196	July 18	2322	538	88	488
Pipe-register	J. W. Conchar	624,909	May 16	1764	398	87	1084
Pipe repair-clamp	I. J. O'Malley	633,607	Sept. 26	2670	623	88	2270
Pipe-scraper	S. Crawshaw	624,307	May 2	670	147	87	828
Pipe service-box. Service-	J. O. A. Laforest	635,328	Oct. 24	2491	578	89	540
Pipe-testing plug. Pneumatic	J. J. Welstead	620,520	Feb. 28	3104	710	86	1468
Pipe-thimble	J. Marquardt	631,314	Aug. 22	2954	668	88	1355
Pipe-thread protector	W. Heston	638,117	Nov. 28	3986	839	89	1812
Pipe-threader reamer attachment	J. B. Kaiser	621,305	Mar. 14	1427	316	86	1791
Pipe threading and cutting machine	F. E. Wells	623,450	Apr. 18	2307	528	87	482
Pipe threading and cutting-off machine	R. P. and L. B. Curtis	625,037	May 16	2074	467	87	1141
Pipe threading and cutting-off machine	R. P. and L. B. Curtis	625,088	May 16	2076	467	87	1141
Pipe-threading machine	R. P. Curtis	621,903	Mar. 28	2550	575	86	2536
Pipe-trimmer	G. Klahre	624,051	May 2	186	40	87	738
Pipe, tube, or casing coupling	T. J. Bray	633,499	Sept. 19	2438	574	88	2212
Pipe-turner	S. McAdoo	620,165	Feb. 28	2503	569	86	1353
Pipe-twisting machine	W. M. Reynolds	633,389	Sept. 19	2261	532, 533	88	2177
Pipe-vent	W. N. Austin	631,920	Aug. 29	4056	910	88	1581
Pipe-wrench	A. G. Bayles, L. D. de Saussure, and T. Herron.	622,197	Apr. 4	3	1	87	3
Pipe-wrench	W. A. Bradford	628,749	July 11	1518	351	88	317
Pipe-wrench	R. Fjellman	639,162	Dec. 12	1771	410	89	2232
Pipe-wrench	J. H. Garson	632,257	Sept. 5	89	19	88	1724
Pipe-wrench	J. C. Gifford	627,075	June 13	1593	348	87	1941
Pipe-wrench	D. R. Ramsey	635,806	Oct. 31	3428	791	89	737
Pipe-wrench	J. J. Rhinelander	626,037	May 30	3859	875	87	1527
Pipe-wrench	H. Rudebock	624,253	May 2	570	122	87	808
Pipe-wrench	J. C. Speirs	639,785	Dec. 26	2964	681	89	2503
Pipe-wrench	I. S. Van Etten and W. E. Berry	631,056	Aug. 15	2490	564	88	1247
Pipe-wrench	W. Vanderman	633,709	Sept. 26	2854	663	88	2307
Pipe-wrench	S. L. Wiegand	626,401	June 6	350	82	87	1681
Pipe-wrench	R. Willis	627,371	June 20	2153	474	87	2073
Pipe wrench and cutter	P. H. Poppert	630,925	Aug. 15	2233	509	88	1196
Pipe-wrench. Chain	P. H. and C. A. Bohner	640,084	Dec. 26	3496	802	89	2610
Pipe-wrench. Chain	G. F. Crass	621,293	Mar. 14	1410	312	86	1787
Pipes. Box-flange coupling for sheet-metal	E. V. Schenck	634,275	Oct. 3	576	142	89	115
Pipes by freezing. Apparatus for preventing bursting of water-	N. M. Hopkins	626,908	June 13	1312	289	87	1886
Pipes by freezing. Apparatus for preventing bursting of water-	N. M. Hopkins	630,700	Aug. 8	1843	415	88	1094
Pipes. Device for preventing electrolysis in	C. S. Courson	634,848	Oct. 10	1604	376	89	336
Pipes. Hanger for supporting small metallic	J. O. Haskell	624,484	May 9	987	219	87	914
Pipes. Machine for constructing irrigating or other	J. H. Martin and D. Ormand	639,858	Dec. 26	3089	710	89	2527
Pipes. Manufacture of	E. F. Badgley	623,590	Apr. 25	2573	589	87	552
Pipes or conduits. Traveler for	L. C. Kohler	632,353	Sept. 5	258	61	88	1758
Pipes. Quick-repair device for	L. Jaenichen	625,448	May 23	2726	620	87	1290
Pipes, traps, &c. Clean-out fitting for drain-	F. Tudor	634,250	Oct. 3	525	133	89	106
Pipes, tubes, &c. Cap and coupling for	G. F. Griffin	628,793	July 11	1601	369	88	333
Pipes. Valved coupling for train-	W. D. Williams	631,688	Aug. 22	3628	817, 818	88	1490
Pipes with water-mains. Device for connecting house service-	H. Hawkes	633,959	Sept. 26	3278	764	88	2392
Pipette	P. Weissgerber	620,066	Feb. 21	2327	529	86	1304
Pistol and knife. Combined	J. C. White	626,472	June 6	472	110	87	1705
Pistol for squirting liquids	G. Reimann	617,495	Jan. 10	1203	274	86	254
Pistol. Repeating	B. Behr	627,966	July 4	11	3	88	4
Piston	R. E. Byle, H. A. Fillmore, and R. H. Nicholson.	632,441	Sept. 5	422	94	88	1790
Piston	J. Price	627,707	June 27	2794	611	87	2214
Piston	W. Spence and J. Nolan	632,950	Sept. 12	1402	324	88	1998
Piston. Expansible lubricating-	W. Hay	626,611	June 6	697	161	87	1750
Piston for hot-air engines	W. R. Kennedy	639,999	Dec. 26	3347	766	89	2579
Piston impact-engine	W. E. and E. F. Prall	619,221	Feb. 7	799	174	86	969
Piston-lubricator	A. Winton	635,217	Oct. 17	2295	536	89	486
Piston or plunger	W. Dockum	639,363	Dec. 19	2185	506	89	2330
Piston. Steam-	R. Bradley	636,713	Nov. 7	887	196	89	1104
Pistons. Instrument for indicating continuously mean effective pressure on engine-	W. Ripper	620,182	Feb. 28	2526	574	86	1358
Pitcher	C. S. Sulzbacher	617,973	Jan. 17	2118	475	86	453
Pitcher. Syrup-	J. E. Berkstresser	617,801	Jan. 17	1809	404	86	391
Pitcher. Syrup-	J. M. Wilson	630,018	Aug. 1	547	121	88	832
Pitchfork and rake. Combined	S. Jeffery	631,166	Aug. 15	2681	606	88	1283
Pith from stalks of plants. Apparatus for removing	N. T. Remy	632,789	Sept. 12	1107	256	88	1942
Pith, &c., from stalks. Machine for removing	J. F. Winchell	623,754	Apr. 25	2832	649	87	600
Pith or cellulose from stalks. Machine for removing	J. F. Winchell	623,753	Apr. 25	2829	648, 649, 153	87	599
Pithy plants. Machine for reducing	E. S. Bradford	636,623	Nov. 7	706	154, 155	89	1065
Pitman	P. Diehl and F. Müller	634,205	Oct. 3	415	105	89	86
Pitman	R. G. Linn	629,795	Aug. 1	60	15	88	733
Pitman	N. D. Stanley	626,106	May 30	4001	912	87	1551
Pitman connection	M. A. Ladd and G. N. Gove	625,171	May 16	2221	503	87	1169
Pitman connection	W. H. Traphagen	630,135	Aug. 1	762	164	88	874
Pivot. Mirror or transom	C. D. Norton	617,349	Jan. 10	941	217	86	203
Pivot or hinge joint	C. H. Hill	631,369	Aug. 22	3047	690, 691	88	1374
Pivot-pin. Adjustable	L. H. Livingston	626,707	June 13	899	204	87	1807
Placer-soil-washing apparatus	S. M. Lissau	631,020	Aug. 15	2417	549	88	1232
Placket-closer, &c	J. E. Davidson	630,190	Aug. 1	858	184	88	892
Placket-closer	A. S. Follansbee	618,857	Feb. 7	71	15	86	818
Placket-closer	W. J. Worden	620,207	Feb. 28	2592	589	86	1368
Placket-fastener	T. Hollander	630,226	Aug. 1	913	200	88	903
Placket-fastener and belt-retainer. Combined	A. Hildebrandt and A. C. Oesterla	629,684	July 25	3215	749	88	681

Alphabetical list of inventions—Continued.

Invention.	Name.	No.	Date.	Monthly volume. Spec.	Monthly volume. Drg.	Official Gazette. Vol.	Official Gazette. Page.
Placket fastener. Skirt	T. Hollander	620,131	Feb. 28	2452	555	86	1343
Placket fastener. Skirt	G. F. Murdock	622,381	Apr. 4	311	72	87	59
Placket-protector and skirt-supporter	W. H. Carr and J. G. Wolf	620,885	Mar. 14	648	142	86	1642
Plaiter	L. J. Bard	635,459	Oct. 24	2791	638	89	600
Plaiting apparatus	C. L. Hurlbut	629,255	July 18	2420	560, 561	88	505
Plaiting-machine	R. F. Coleman	631,537	Aug. 22	3357	764	88	1436
Plaiting-machine	T. F. Hagerty	624,013	May 2	108	23	87	724
Plaiting-machine	T. F. Hagerty	624,014	May 2	110	23, 24	87	724
Plaiting-machine	J. D. Hatcher	625,761	May 30	3275	742	87	1417
Plaiting or goffering fabrics. Machine for	J. A. Groebli	637,865	Nov. 28	3512	733, 734	89	1719
Plane. Bench	M. D. Converse	619,394	Feb. 14	1107	250	86	1046
Plane. Bench	H. Miller	636,830	Nov. 14	1143	246	89	1180
Plane. Joiner's	J. M. Cole	620,226	Feb. 28	2616	595, 596	86	1373
Plane. Shoot	V. Royle	639,617	Dec. 19	2633	604	89	2419
Plane support and handle. Swivel	C. E. Hanson	636,983	Nov. 14	1452	313	89	1241
Planer cutter-head	W. D. Clugston	627,099	June 20	1644	359, 360	87	1971
Planing and matching machine	G. W. Bugbee	639,353	Dec. 19	2142	493	89	2320
Planing-machine	H. H. Thornton	638,610	Dec. 5	797	172	89	2019
Planing-machine	S. A. Woods, H. R. Tillison, and C. W. H. Blood.	623,938	Apr. 25	3215	741, 742	87	673
Planing-machine	S. A. Woods, H. R. Tillison, and C. W. H. Blood.	624,886	May 9	1721	389, 390	87	1058
Planing-machine cutter-head	J. Ihle	631,542	Aug. 22	3373	766	88	1429
Planing-machine feeding device	J. R. Thomas	639,315	Dec. 19	2069	475, 476	89	2305
Planing, milling, or drilling. Work-holder for	J. F. Wilson	634,225	Oct. 3	458	117	89	94
Planetarium	N. W. Hurst and T. O. Linch	622,857	Apr. 11	1212	282	87	249
Planisphere	E. A. Osse	635,268	Oct. 17	2374	554, 555	89	501
Planographic presses. Method of and mechanism for dampening	E. Hett	637,578	Nov. 21	2845	586, 587	89	1551
Plant-protector	L. J. Merriman	617,034	Jan. 3	331	78	86	65
Plant-setter	J. Hostetter and J. Y. Kline	637,464	Nov. 21	2386	517	89	1437
Plant-setter	J. H. Masters	617,403	Jan. 10	1049	238	86	223
Planter	T. J. Callahan	630,030	Aug. 1	574	126	88	837
Planter	C. C. and L. S. Caves	617,639	Jan. 10	1479	337, 338	86	307
Planter	C. H. Childs	619,388	Feb. 14	1099	248	86	1044
Planter	T. Crow	621,633	Mar. 21	2010	448, 449	86	1915
Planter	E. H. Grim	636,659	Nov. 7	778	170	89	1079
Planter	S. Rouse	631,326	Aug. 22	2976	673	88	1360
Planter	L. P. Street	617,821	Jan. 17	1850	413	86	399
Planter	D. R. Vivion	630,759	Aug. 8	1933	436	88	1112
Planter and cultivator. Combined corn and cotton-seed	J. H. Forister	619,740	Feb. 21	1743	398	86	1193
Planter and fertilizer-distributer	C. A. Studle	638,295	Dec. 5	205	43, 44	89	1905
Planter and fertilizer-distributer. Combined	C. M. Floyd	632,179	Aug. 29	4551	1026	88	1678
Planter and fertilizer-distributer. Combined	C. H. Whitney	627,560	June 27	2514	552, 553	87	2160
Planter and fertilizer-distributer. Combined cotton-seed	A. G. Perry	626,561	June 6	619	143	87	1735
Planter and fertilizer-distributer. Cotton-	H. D. Wilson	633,934	Sept. 26	3221	751	88	2381
Planter and fertilizer-distributer. Potato-	W. V. Hart	627,115	June 20	1671	366	87	1976
Planter and fertilizer-distributer. Seed-	T. L. Crafton	620,570	Mar. 7	30	6	86	1508
Planter and fertilizer-distributer. Seed-	G. W. Fender	635,094	Oct. 17	2068	487	89	445
Planter and plant-setting machine. Seed-	F. R. Parks	627,873	June 27	3085	675, 676	87	2272
Planter attachment. Corn-	P. A. Peterson	631,662	Aug. 22	3584	808	88	1481
Planter. Automatic check-row	J. B. Jarmin	632,122	Aug. 29	4438	997, 998	88	1657
Planter. Automatic check-row corn-	J. B. Jarmin	630,891	Aug. 15	2172	493, 494	88	1185
Planter. Automatic corn-	R. V. Barry	620,876	Mar. 14	634	139	86	1639
Planter. Automatic corn-	J. B. Jarmin	630,890	Aug. 15	2165	492, 493	88	1183
Planter. Automatic corn-	J B. Jarmin	638,721	Dec. 12	1017	228, 229	89	2084
Planter. Check-row	J. D. Dawson	635,715	Oct. 24	3236	746	89	687
Planter. Check-row	A. Greer	635,134	Oct. 17	2152	502	89	460
Planter. Check-row corn-	C. H. Baker	621,201	Mar. 14	1235	272, 273	86	1754
Planter. Check-row corn-	T. R. Godbey	627,497	June 27	2389	525	87	2135
Planter. Check-row corn-	A. J. Hughes and D. C. Hindman	632,717	Sept. 12	977	226, 227	88	1914
Planter. Check-row corn-	N. E. Schoonover	618,209	Jan. 24	2591	572, 573	86	555
Planter. Combined corn and cotton	W. Sobey	620,191	Feb. 28	2559	581, 582	86	1362
Planter. Corn-	J. R. Ayers	637,954	Nov. 28	3661	768, 769	89	1749
Planter. Corn-	I. Brechner	623,303	Apr. 18	2051	470, 471	87	430
Planter. Corn	H. S. Crawford	638,799	Dec. 12	1152	257	89	2111
Planter. Corn-	H. L. Dooley	630,452	Aug. 8	1402	314	88	1010
Planter. Corn-	R. Finot	625,664	May 23	3089	702	87	1362
Planter. Corn-	T. Frietschek	620,237	Feb. 28	2635	600	86	1376
Planter. Corn-	J. H. Hansen	620,768	Mar. 7	430	89	86	1585
Planter. Corn-	F. C. Harwood, C. C. Leedle, and G. L. Reed.	635,541	Oct. 24	2934	670, 671	89	627
Planter. Corn-	G. R. Hollis	635,323	Oct. 24	2480	576	89	538
Planter. Corn-	W. P. Hunt and C. P. A. Friberg	639,239	Dec. 19	1935	446	89	2278

Alphabetical list of inventions—Continued.

Invention.	Name.	No.	Date.	Monthly volume. Spec.	Monthly volume. Dr'g.	Official Gazette. Vol.	Official Gazette. Page.
Planter. Corn-	C. E. Jackson	620,710	Mar. 7	318	65,66	86	1563
Planter. Corn-	W. Klein	618,685	Jan. 31	3471	775	86	738
Planter. Corn-	F. K. Lathrop	635,490	Oct. 24	2843	649	89	610
Planter. Corn-	A. C. Mahaffey and J. O. Work	629,749	July 25	3337	778	88	704
Planter. Corn-	J. A. Miller	623,093	Apr. 11	1630	375	87	332
Planter. Corn	H. Moore	634,736	Oct. 10	1416	334	89	299
Planter. Corn	P. E. Obrink	635,342	Oct. 24	2509	583	89	544
Planter. Corn-	J. F. Pipkin	638,850	Dec. 12	1234	278	89	2126
Planter. Corn-	H. N. Randall	619,345	Feb. 14	1019	230	86	1029
Planter. Corn-	D. Simpson	634,482	Oct. 10	964	231	89	210
Planter. Corn-	W. H. Traphagen	629,730	July 25	3299	770	88	697
Planter. Corn-	J. M. Underwood and O. N. Sprague	619,640	Feb. 14	1542	351	86	1128
Planter. Corn and cotton	J. H. Sheppard	628,362	July 4	775	180	88	149
Planter. Corn or cotton	J. W. Linam and T. J. Whitworth	636,677	Nov. 7	808	179	89	1086
Planter. Cotton or corn	W. M. Pendley	621,847	Mar. 28	2429	542, 543	86	2013
Planter. Cotton-seed	S. H. Sayre and E. Little	634,914	Oct. 17	1720	406, 407	89	374
Planter. Double check-row cotton and corn	J. W. Bartlett	631,921	Aug. 29	4057	910, 911	88	1581
Planter drop-actuating mechanism. Seed-	P. W. Jeppesen	620,781	Mar. 7	455	94	86	1591
Planter dropper attachment. Corn-	R. E. Ash and T. J. McCollouch	633,942	Sept. 26	3231	753	88	2383
Planter dropping mechanism	G. B. Hopper	637,612	Nov. 21	3030	624	89	1602
Planter. Hand-	J. A. Adams	630,020	Aug 1	551	122	88	833
Planter. Hand-	J. M. Welch	633,331	Sept. 19	2152	504	88	2157
Planter. Hand potato-	R. F. Sprague	634,483	Oct. 10	966	231, 232	89	211
Planter marker attachment	J. Gilmour	633,446	Sept. 19	2356	555	88	2196
Planter marker attachment	J. A. Ringeisen	628,038	July 4	144	30	88	29
Planter. Peanut-	J. R. Ayers	635,635	Oct. 24	3101	712	89	660
Planter. Potato-	A. J. Colburn	630,662	Aug. 8	1787	403	88	1083
Planter. Potato-	H. Haid	635,479	Oct. 24	2826	645	89	607
Planter. Potato-	H. Halter	626,229	June 6	24	5,6	87	1619
Planter. Potato-	L. Heaphy	633,840	Sept. 26	3062	711	88	2350
Planter. Potato-	E. F. Heuer	619,744	Feb. 21	1747	399	86	1194
Planter. Potato-	C. Honson	636,667	Nov. 7	793	175, 176	89	1082
Planter. Potato-	W. O'Neill	635,057	Oct. 17	1977	467, 468	89	426
Planter. Potato-	S. C. Schofield	618,136	Jan. 24	2450	547	86	530
Planter rein and draw-rope attachment	W. Douglas	626,225	June 6	17	4	87	1618
Planter. Seed-	J. W. Clark	625,743	May 30	3239	735, 736	87	1410
Planter. Seed-	W. E. Hedges	636,527	Nov. 7	523	115	89	1027
Planter. Seed-	W. J. Kerr	625,774	May 30	3303	750	87	1422
Planter. Seed-	S. M. Littell	627,431	June 20	2275	502	87	2097
Planter. Seed-	W. C. Sheldon	624,694	May 9	1367	305	87	988
Planter. Tobacco-	W. Pretsman	633,216	Sept. 19	1923	452, 453	88	2113
Planters. Anchor and tension device for check-row corn-	K. K. Lerol, Jr	619,585	Feb. 14	1423	327	86	1106
Plaster	W. H. Beardsley	639,340	Dec. 19	2124	------	89	2317
Plaster and restainer. Manufacture of	H. E. Stürcke	619,911	Feb. 21	2059	------	86	1254
Plaster-block	M. G. F. Buckley	625,869	May 30	3497	792	87	1459
Plaster-board	A. W. Blazo and H. W. Bell	638,493	Dec. 5	590	122	89	1979
Plaster, &c. Composition of matter for wall-	F. Boas	626,481	June 6	486	------	87	1708
Plaster cornices. Device for forming	A. J. Tobie	637,431	Nov. 21	2332	503, 504	89	1427
Plaster metallic support	T. M. Clancy	617,458	Jan. 10	1146	261	86	241
Plaster-of-paris casts. Treating	A. Broodsky	623,978	May 2	44	------	87	710
Plaster products. Producing	F. P. Van Hook	624,709	May 9	1394	312	87	993
Plaster. Wall-	W. Coale	635,996	Oct. 31	3809	------	89	811
Plastering buildings. Means for	F. Venezia	630,141	Aug. 1	775	167	88	876
Plastering composition and making same	G. A. Esch	627,910	June 27	3155	------	87	2289
Plastic compound. Translucent	H. Tzschucke	627,367	June 20	2148	------	87	2072
Plastic material for manufacturing shuttles, bobbins, &c.	D. Rodgers	627,207	June 20	1823	------	87	2006
Plastic material. Machine for shaping	G. Stoff	617,610	Jan. 10	1426	325	86	296
Plastic materials. Press for forming articles from	W. E. Saunders	635,026	Oct. 17	1915	456	89	413
Plate-cleaning apparatus	J. J. and T. A. Raisbeck	621,539	Mar. 21	1856	412	86	1885
Plate-holder. Magazine	N. Bouvang	630,849	Aug. 15	2099	476	88	1170
Plate-holder. Magazine	W. F. Folmer	631,249	Aug. 15	2830	638	88	1314
Plate or slab material	P. Mädler	629,085	July 18	2127	495	88	452
Plate-shears	T. Jensen	632,351	Sept. 5	255	60	88	1757
Plates. Manufacture of compound	E. Martin	625,117	May 16	2136	485	87	1153
Platen-press feeding device	P. Dvoräk	628,158	July 4	377	89	88	76
Platen-press gripper	A. W. Knox	627,856	June 27	3051	667	87	2266
Platform: *See* Extensible platform. Lumber-piling platform. Extension-platform. Rolling platform. Loading-platform. Window-platform.							
Plating-machine	H. R. Boissier	628,686	July 11	1405	327	88	292
Pleasure-wheel	G. F. Weber	625,074	May 16	2048	460	87	1137
Pliers	A. Bradley	632,305	Sept. 5	184	41	88	1743
Pliers	A. Bradley	634,493	Oct. 10	982	235	89	214
Pliers	W. Cronk	632,835	Sept. 12	1195	272	88	1960
Pliers	J. R. Morris	620,662	Mar. 7	227	47	86	1546
Pliers for clamping clips on wires	C. C. Baldwin	619,710	Feb. 21	1682	385	86	1181
Pliers for handling wire clips	L. F. Sylvester	636,587	Nov. 7	631	138	89	1050
Plow	C. E. Anderson	629,643	July 25	3148	734	88	668
Plow	C. H. Arft and J. Tessin	619,925	Feb. 21	2078	471	86	1258
Plow	E. A. Bennett	619,270	Feb. 14	901	203	86	1004
Plow	E. Bruesewitz	628,573	July 11	1180	276	88	247
Plow	G. S. Carrigan	635,916	Oct. 31	3650	842	89	779
Plow	J. L. and J. T. Carroll	631,152	Aug. 15	2654	600	88	1277
Plow	W. C. Cousins	620,228	Feb. 28	2622	596	86	1374

Alphabetical list of inventions—Continued.

Invention.	Name.	No.	Date.	Monthly volume.		Official Gazette.	
				Spec.	Dr'g.	Vol.	Page.
Plow	J. C. Cox	620,421	Feb. 28	2947	676	86	1437
Plow	C. R. Davis	632,647	Sept. 5	796	185, 186	88	1865
Plow	F. H. Dawes	635,671	Oct. 24	3164	729	89	671
Plow	T. H. Ewing	635,762	Oct. 31	3348	774	89	720
Plow	E. Girod	627,996	July 4	74	14	88	16
Plow	W. B. Gray	624,785	May 9	1522	347	87	1020
Plow	Y. Grimland	622,346	Apr. 4	256	59	87	49
Plow	A. J. Gunter	635,247	Oct. 17	2338	546	89	495
Plow	H. Hansen	638,456	Dec. 5	519	107	89	1966
Plow	A. K. Hanson and L. E. Johnson	618,202	Jan. 24	2582	571	86	553
Plow	J. F. Harris	625,502	May 23	2813	641	87	1308
Plow	J. Harrison	618,088	Jan. 24	2358	526	86	512
Plow	W. F. Hartig	630,454	Aug. 8	1408	315	88	1011
Plow	J. M. Heckman	630,052	Aug. 1	611	133	88	844
Plow	L. S. Horton	622,803	Apr. 11	1111	257	87	230
Plow	G. A. Mabry and J. T. Morgan	628,603	July 11	1218	285	88	255
Plow	A. R. Mallory	621,307	Mar. 14	1430	316	86	1791
Plow	G. A. Marsh	627,620	June 27	2640	580	87	2185
Plow	J. N. McCune and J. Davis	625,694	May 23	3133	712	87	1371
Plow	F. Muehr and J. B. Frerich	630,816	Aug. 8	2038	460	88	1135
Plow	E. F. Murray	637,939	Nov. 28	3639	763	89	1745
Plow	J. Oliver	628,632	July 11	1314	306	88	274
Plow	J. E. Phillips	633,482	Sept. 19	2410	567, 568	88	2207
Plow	E. P. Putnam and A. F. Maxfield	637,973	Nov. 28	3693	777	89	1755
Plow	G. W. Ream	625,355	May 23	2563	583	87	1259
Plow	C. W. Reed	621,943	Mar. 28	2618	590	86	2048
Plow	C. W. Reed	626,095	May 30	3962	900	87	1545
Plow	M. J. Seifried	628,899	July 11	1788	416, 417	88	368
Plow	W. H. Sherrod	623,044	Apr. 11	1543	357	87	315
Plow	J. W. Thrush	634,740	Oct. 10	1421	335	89	300
Plow	W. M. Tiller	634,777	Oct. 10	1476	347	89	310
Plow	A. V. Wilbur	632,389	Sept. 5	328	74	88	1771
Plow	A. R. Yarbrough	618,927	Feb. 7	210	46	86	846
Plow and cultivator	J. L. Hodges	630,352	Aug. 8	1177	258	88	971
Plow and planter	S. B. Stokely and W. S. Livengood	640,045	Dec. 26	3424	786, 787	89	2595
Plow and planter. Combined	I. S. Perkins	637,026	Nov. 14	1537	330	89	1257
Plow and plow-point	C. B. Harris	633,757	Sept. 26	2933	681	88	2322
Plow attachment	J. and W. Craggs	625,323	May 23	2504	569	87	1248
Plow attachment	D. V. T. Hubbard	634,086	Oct. 3	181	45	89	40
Plow attachment	J. W. Lovlace	626,790	June 13	1053	236, 237	87	1837
Plow attachment	A. McLean	629,965	Aug. 1	446	95	88	811
Plow attachment	W. Nolen	627,809	June 27	2969	650	87	2250
Plow attachment	B. L. Pool	635,388	Oct. 24	2628	606	89	568
Plow attachment. Disk	J. I. Lovett	630,367	Aug. 8	1205	265	88	977
Plow attachment for regulating depth of furrows	H. H. Allen	633,940	Sept. 26	3229	752	88	2382
Plow. Beet	W. F. Schmidt	627,209	June 20	1825	399	87	2006
Plow clevis and wheel adjusting device	J. T. Boyles	628,748	July 11	1517	351	88	317
Plow. Combination	W. A. Shackelford	622,719	Apr. 11	970	225, 226	87	204
Plow cotton-chopping attachment	T. J. Lee	635,491	Oct. 24	2844	649	89	610
Plow. Cultivator	R. T. Morgan	633,025	Sept. 12	1525	355	88	2022
Plow. Disk	W. L. Casaday	625,320	May 23	2498	567, 568	87	1247
Plow. Disk	G. M. Clark	635,712	Oct. 24	3229	743, 744	89	685
Plow. Disk	E. M. Heylman	625,764	May 30	3284	744	87	1418
Plow. Disk	O. P. Wolcott	618,261	Jan. 24	2688	595	86	573
Plow draft appliance	W. S. McClarren	622,818	Apr. 11	1138	263	87	235
Plow. Drain-ditching	N. L. Gobeille	635,315	Oct. 24	2466	573	89	536
Plow. Drain-ditching	F. Ponton and P. Grenier	632,060	Aug. 29	4318	971	88	1632
Plow-foot	W. H. Drake	618,070	Jan. 24	2322	518	86	505
Plow-foot and fender	G. L. Young	640,067	Dec. 26	3469	796	89	2604
Plow-frames, &c. Lift for	C. E. Wheeler	632,771	Sept. 12	1072	248	88	1934
Plow. Gang	A. V. Wilbur	617,377	Jan. 10	997	229	86	213
Plow. Gang	A. V. Wilbur	617,379	Jan. 10	1000	229	86	214
Plow. Gang or cultivator	J. T. Lucas	634,358	Oct. 3	744	177	89	149
Plow-handle	A. Haynes, Sr.	622,850	Apr. 11	1205	280	87	248
Plow-handle-bending machine	G. M. Robeson	621,713	Mar. 21	2165	482	86	1947
Plow land-gage	R. B. Fentem	629,156	July 18	2257	523	88	476
Plow manure-distributing device	J. F. Witthold	628,976	July 18	1923	448	88	411
Plow or cultivator attachment. Wheeled	J. C. Fullerton	635,536	Oct. 24	2921	666, 667	89	625
Plow or cultivator fender	J. S. West and L. M. McGee	639,119	Dec. 12	1708	394	89	2219
Plow planting attachment	E. L. Morgan	619,597	Feb. 14	1442	332, 333	86	1109
Plow-point	W. A. Clark	628,431	July 4	894	209	88	172
Plow-point	D. H. Moore	632,274	Sept. 5	134	29	88	1734
Plow-point	A. A. Suber	632,071	Aug. 29	4340	975	88	1636
Plow-point	E. L. Troup	632,857	Sept. 12	1228	281	88	1967
Plow point and share. Reversible	W. L. Beall	624,740	May 9	1439	325	87	1003
Plow ratchet lever and segment	W. L. Beall	624,739	May 9	1437	324, 325	87	1002
Plow. Reversible	G. J. Overshiner	625,461	May 23	2741	624	87	1293
Plow. Reversible	C. W. Reed	627,878	June 27	3094	677	87	2273
Plow. Reversible	C. W. Reed	627,879	June 27	3096	677	87	2274
Plow. Reversible gang	T. E. Kavanagh	623,673	Apr. 25	2710	621	87	577
Plow. Revolving	M. C. Dethlefs	620,285	Feb. 28	2717	623, 624	86	1394
Plow. Riding	E. M. Heylman	617,338	Jan. 10	924	213	86	199
Plow. Rotary	D. Worthington and C. Petersen	633,770	Sept. 26	2954	685, 686	88	2327

Alphabetical list of inventions—Continued.

Invention.	Name.	No.	Date.	Monthly volume.		Official Gazette.	
				Spec.	Dr'g.	Vol.	Page.
Plow. Rotary-disk	J. B. Garde	619,560	Feb. 14	1388	319	86	1099
Plow. Rotary-disk	G. Spalding and J. S. Robbins	629,137	July 18	2227	516, 517	88	471
Plow. Rotary-disk	G. Spalding and J. S. Robbins	629,138	July 18	2230	517	88	471
Plow-scrapers. Device for resetting	P. A. Jackson	631,543	Aug. 22	3376	766	88	1440
Plow seeder attachment. Gang-	J. E. Beach	626,453	June 6	439	103	87	1699
Plow seeding attachment	C. H. Whitney	627,559	June 27	2513	552	87	2159
Plow-set	S. H. Clark	638,702	Dec. 12	986	220	89	2078
Plowshare	A. Lindgren	623,726	Apr. 25	2790	638	87	591
Plowshare welding and shaping machine	G. S. Strom	633,921	Sept. 26	3204	747	88	2378
Plow. Steam-	W. C. Gregg	638,921	Dec. 12	1363	311	89	2152
Plow-stock	J. W. Perry	638,399	Dec. 5	408	86	89	1944
Plow-stock	E. H. Westbrook	629,533	July 25	2956	689	88	631
Plow-stock and colter attachment. Ground	C. B. Harris	626,786	June 13	1049	235	87	1836
Plow stock or standard	W. T. Armstrong	627,888	June 27	3114	682	87	2277
Plow. Subsoil-	T. W. Campbell	639,356	Dec. 19	2160	496	89	2325
Plow. Sugar-beet	F. A. Wechsler, J. T. Leinberger, and J. G. Schmidt.	638,303	Dec. 5	223	46	89	1909
Plow. Sulky-	W. H. Perrin (Reissue)	11,795	Dec. 12	1872	432	89	2250
Plow. Sulky-	W. Sobey	620,192	Feb. 28	2561	582	86	1362
Plow turniug attachment	W. Kester	620,329	Feb. 28	2803	640	86	1410
Plow vine-cutting attachment	G. H. Nungezer	634,366	Oct. 3	754	180	89	151
Plow weed-turner	A. A. Marsh	624,357	May 2	752	169	87	844
Plow. Wheel-	P. O. Blechschmidt	627,091	June 20	1625	355, 356	87	1966
Plow. Wheel-	M. Sattley	619,351	Feb. 14	1033	232	86	1031
Plow. Wheeled	G. E. Evans	620,575	Mar. 7	39	8, 9	86	1510
Plow. Wheeled	G. Jernberg	629,722	July 25	3287	766, 767	88	694
Plow. Wheeled	N. O. Starks	616,984	Jan. 3	227	52	86	44
Plow. Wheeled	L. E. Waterman	629,732	July 25	3302	771	88	698
Plow. Wheeled	L. E. Waterman	629,733	July 25	3302	771, 772	88	698
Plows. Automatic rolling cutter for	J. C. Lambert	636,342	Nov. 7	187	41	89	958
Plows. Potato-digging attachment for	O. C. Campbell	627,389	June 20	2193	482	87	2080
Plows. Rotary subsoil attachment for	T. Hawke	620,919	Mar. 14	708	156	86	1652
Plows. Sod or turf cutting attachment for	W. J. Blocker	618,533	Jan. 31	3200	708	86	685
Plug for flexible-wire connections. Attaching-	D. McGlone	631,173	Aug. 15	2691	608	88	1285
Plug or valve. Turning	F. V. Winters	618,631	Jan. 31	3371	751	86	717
Plug or wedge for fixing flashings of buildings, &c.	M. J. Curtin	624,758	May 9	1476	335	87	1011
Plumb-bob	I. A. Martin	625,181	May 16	2236	509	87	1172
Plumb-bob	A. Nacke	630,262	Aug. 1	974	214	88	915
Plumb-bob	A. A. Snebold	632,286	Sept. 5	151	35	88	1737
Plumber's holder	J. T. Moran	638,737	Dec. 12	1049	235	89	2090
Plume. Artificial	E. W. Moch	630,909	Aug. 15	2209	503	88	1191
Plunger stop mechanism	L. A. Howe	639,175	Dec. 12	1795	415	89	2236
Pneumatic carrier	J. A. Mudd	640,145	Dec. 26	3603	828	89	2632
Pneumatic-carrier system	E. A. Fordyce	624,202	May 2	471	99, 100, 101	87	790
Pneumatic-carrier system	C. M. Hamilton and A. S. Leckie	620,649	Mar. 7	199	41, 42	86	1540
Pneumatic-despatch apparatus	B. C. Batcheller	623,970	May 2	21	4, 5	87	706
Pneumatic-despatch apparatus	B. C. Batcheller	623,971	May 2	28	6	87	707
Pneumatic-despatch apparatus	A. J. Gillespie	617,417	Jan. 10	1079	246, 247	86	229
Pneumatic-despatch-apparatus carrier	B. C. Batcheller	623,972	May 2	30	6	87	707
Pneumatic-despatch system	B. C. Batcheller	632,690	Sept. 12	922	215	88	1903
Pneumatic-despatch system	L. G. Bostedo	623,509	Apr. 25	2415	554	87	522
Pneumatic-despatch systems. Receiving-terminal for	C. F. Bodinus	638,409	Dec. 5	426	89	89	1947
Pneumatic-despatch-tube apparatus	O. Ames	640,071	Dec. 26	3476	797	89	2606
Pneumatic-despatch-tube apparatus	A. W. Pearsall	640,020	Dec. 26	3374	773	89	2585
Pneumatic-despatch-tube carrier	E. A. Fordyce	627,181	June 20	1782	391	87	1998
Pneumatic-despatch tube system	L. G. Bostedo	623,510	Apr. 25	2416	554, 555	87	522
Pneumatic-despatch tube system	E. A. Fordyce	624,201	May 2	469	98, 99	87	790
Pneumatic-despatch-tube systems. Terminal for	E. A. Fordyce	635,434	Oct. 24	2745	629	89	590
Pneumatic-despatch-tube terminal	W. W. Danley	623,520	Apr. 25	2437	558, 559	87	526
Pneumatic drill	C. T. Smith and A. J. Johnson	640,039	Dec. 26	3416	783	89	2594
Pneumatic drill. Portable	H. J. Kimman	630,357	Aug. 8	1184	261	88	971
Pneumatic elevator	J. B. Schuman	623,109	Apr. 11	1682	388, 389	87	340
Pneumatic elevator and conveyer	F. F. Landis	618,361	Jan. 24	2857	635	86	605
Pneumatic hand-drill	C. T. Smith	634,071	Oct. 3	148	39	89	34
Pneumatic propulsion means	J. C. Walker	624,271	May 2	600	129	87	812
Pneumatic propulsion means	J. C. Walker	630,821	Aug. 8	2047	462	88	1137
Pneumatic-tired wheel for vehicles	R. Freysinger	621,240	Mar. 14	1311	290	86	1769
Pneumatic tool	C. W. and C. H. Peck	629,967	Aug. 1	449	96	88	812
Pneumatic tool	D. S. Waugh	622,576	Apr. 4	703	164	87	134
Pneumatic-transit tubes. Carrier-receiving mechanism for	B. C. Batcheller	623,973	May 2	31	7	87	708
Pneumatic transmission system	B. C. Batcheller	623,968	May 2	10	2	87	704
Pneumatic transmission system	B. C. Batcheller	623,969	May 2	14	2, 3, 4	87	705
Pneumatic rotary drill. Portable	H. J. Kimman	639,738	Dec. 26	2871	661, 662	89	2484
Pneumatic self-playing instrument	C. S. Batdorf	635,416	Oct. 24	2705	619, 620, 621	89	582
Pneumatic-tube ends. Means for connecting	U. P. Smith	638,188	Nov. 28	4127	872	89	1841
Pneumatic wheel	E. E. Powers	628,845	July 11	1682	392, 393	88	348
Pneumatic wheel	J. E. Thornton and J. P. Lea	628,562	July 11	1158	271	88	243
Pneumatical apparatus for applying tools to surfaces of any solid bodies.	L. J. Moissenet	633,882	Sept. 26	3143	729, 730	88	2366
Pocket	C. Douglis	627,400	June 20	2220	490	87	2084

Alphabetical list of inventions—Continued.

Invention.	Name.	No.	Date.	Monthly volume		Official Gazette.	
				Spec.	Dr'g	Vol.	Page.
Pocket-book	M. Scheuer	629,821	Aug. 1	111	27	88	742
Pocket-book	F. S. Weaver	637,365	Nov. 21	2214	476	89	1403
Pocket-case	G. Rehmann	634,959	Oct. 17	1790	425	89	388
Pocket-edge protector	A. B. Bishop	623,460	Apr. 18	2324	532	87	485
Pocket-holder	M. W. Reeves	635,448	Oct. 24	2775	634	89	596
Pocket-knife	J. Conover	618,488	Jan. 31	3112	689	86	669
Pocket-knife	E. Kühn	633,854	Sept. 26	3097	718	88	2356
Pocket-knife	G. W. Miller	631,546	Aug. 22	3386	767	88	1442
Pocket-knife	J. A. Schmidt	632,792	Sept. 12	1116	257	88	1944
Pocket-knife and match-safe. Combined	J. N. Burton	638,555	Dec. 5	693	147	89	1998
Pocket-protector	J. D. Heffner, J. J. Allen, and W. Collier	631,744	Aug. 22	3744	840	88	1510
Pocket. Safety-	E H. Burger	619,861	Feb. 21	1977	449	86	1239
Pocket. Safety-	M. M. Murray	624,069	May 2	225	47	87	745
Pocket safety attachment	D. T. Kissam	630,544	Aug. 8	1577	352	88	1043
Pocket watch-guard	J. S. Coyte	617,674	Jan. 10	1535	348	86	319
Poison-distributer	E. Braun	628,920	July 18	1829	426	88	394
Poison-distributer	C. W. Martin	639,820	Dec. 26	3026	696	89	2515
Poison-distributer	F. L. Richter	637,666	Nov. 21	3126	648	89	1622
Poke. Animal-	E. P. Hoard	634,890	Oct. 17	1682	397	89	367
Poke. Animal-	A. C. Witt	622,311	Apr. 4	199	44	87	37
Pole and doubletree coupling-plate	G. W. Conrad	616,900	Jan. 3	63	13	86	14
Pole and neck-yoke coupling	N. Hockerson, Jr	623,665	Apr. 25	2695	618	87	574
Pole and shade-roller hanger. Combined	S. D. Dilts	629,323	July 18	2546	593	88	530
Pole. Carriage-	H. Brunn	634,550	Oct. 10	1089	258	89	234
Pole-climber	D. A. Jones	626,542	June 6	592	136	87	1729
Pole evener. Buggy-	W. Payne	633,658	Sept. 26	2756	641	88	2287
Pole line-guard. Vehicle-	F. M. Bird	622,108	Mar. 28	2918	662	86	2108
Pole or column	J. Lanz	634,692	Oct. 10	1330	315	89	282
Pole or column clamp	J. Lanz	634,693	Oct. 10	1331	315	89	282
Pole or shaft coupling bolt for vehicles	E. L. Lowe	617,107	Jan. 3	475	114	86	93
Pole or shaft supporter	C. Butcher	634,801	Oct. 10	1516	356	89	318
Pole or thill coupling	R. F. Corneil	635,428	Oct. 24	2733	627	89	588
Pole or thill coupling	H. B. Weiper	621,626	Mar. 21	1998	445, 446	86	1913
Pole-straightener	T. H. McCauley	634,905	Oct. 17	1704	402, 403	89	371
Pole-support	M. Schichtl	637,036	Nov. 14	1554	335	89	1261
Pole-tip	J. C. Hackett	619,168	Feb. 7	711	153	86	950
Pole-tip spring-catch	A. O Ullrey	619,638	Feb. 14	1540	350	86	1128
Polish. Furniture-	W. T. Meade	633,022	Sept. 12	1521	------	88	2022
Polishing device	J. B. Buchanan	636,111	Oct. 31	4050	926	89	858
Polishing device	J. Whittenham	619,378	Feb. 14	1080	243	86	1041
Polishing-machine	A. Huseby	637,121	Nov. 14	1734	372, 373	89	1293
Polishing or abrading device	J. S. Baum	631,690	Aug. 22	3631	818	88	1491
Polishing-wheel	F. P. Pfleghar	621,131	Mar. 14	1130	245	86	1732
Polishing-wheel	E. D. Woods	628,172	July 4	403	95	88	81
Pool-table	D. A. Fletcher	620,026	Feb. 21	2258	512	86	1291
Pool-table	J. Walsh and D. Shepherd	621,187	Mar. 14	1216	266	86	1750
Pool-table attachment	T. W. Griffin	626,902	June 13	1303	286	87	1884
Popcorn gems. Machine for making	J. E. Harvie	618,669	Jan. 31	3445	768	86	733
Popcorn-molding machine	F. Kennedy	635,137	Oct. 17	2160	503, 504	89	461
Popcorn-molding machine	J. McEwen	635,055	Oct. 17	1974	467	89	426
Portable elevator	H. H. Carr	638,954	Dec. 12	1417	324	89	2163
Portable elevator	C. B. McCabe and L. Goughenour	636,445	Nov. 7	360	82	89	994
Portable heater	J. W. Osborne	631,966	Aug. 29	4138	931	88	1598
Portable house	W. B. Mershon and J. M. Morley	630,908	Aug. 15	2207	503	88	1191
Portable stand or support	H. Stevenson	619,362	Feb. 14	1052	236	86	1035
Portfolio, letter-file, &c	A. Krah	621,256	Mar. 14	1335	296	86	1773
Post: *See* Bicycle seat-post. Electrical binding-post. Fence-post. Hitching-post. Signal-post. Spring-supported post. Wagon-post.							
Post-hole digger	H. W. Avery and W. S. Judd	626,959	June 13	1393	307	87	1902
Post-hole digger	R. W. Brooks	630,483	Aug. 8	1459	326	88	1021
Post-hole digger	W. H. Dalbey	630,865	Aug. 15	2128	482	88	1175
Post-hole digger	C. L. Monroe	634,902	Oct. 17	1700	402	89	371
Post-hole digger	W. Ritschard	637,830	Nov. 28	3431	717	89	1703
Post-hole digger	A. B. Spigelmyer	636,466	Nov. 7	400	89	89	1001
Post-office-box time-indicator	E. M. Hoagland and D. S. Richardson.	636,992	Nov. 14	1477	318	89	1245
Post-office boxes. Indicating-sign for	W. J. Williams	620,522	Feb. 28	3108	711	86	1469
Post-office depository	T. J. Crowder	618,846	Feb. 7	48	10, 11	86	813
Postal-box signal	F. C. Bates	627,635	June 27	2673	586	87	2191
Postal-car bag-catcher	T. E. Hendricks	637,962	Nov. 28	3678	773	89	1753
Postal card	D. W. Custer	620,423	Feb. 28	2949	676	86	1437
Postal denominating, registering, and adding machine.	E. E. Wolf	618,158	Jan. 24	2504	556, 557, 558	86	539
Postal sheet. Folding	J. A. Cook	638,561	Dec. 5	700	149	89	1999
Postmarking and stamp-canceling machine	J. E. Wright and W. R. Griffith	630,964	Aug. 15	2313	526, 527	88	1211
Pot: *See* Coffee-pot. Coffee or tea pot. Flower-pot. Slag or cinder pot. Tea or coffee pot.							
Pot and lid lifter	H. F. Austin	625,312	May 23	2484	563	87	1244
Potash. Making yellow prussiate of	W. Schröder	624,383	May 2	802	------	87	854
Potato-bug catcher	O. C Sanger	618,737	Jan. 31	3560	795	86	755
Potato-bug destroyer	D. D. Kimberlin	626,912	June 13	1317	290	87	1887
Potato-bug exterminator	E. L. Brillhart	623,977	May 2	42	9	87	709
Potato-bug gatherer	M. M. Murden	618,896	Feb. 7	135	30	86	831
Potato-cutter	A. Smith	631,409	Aug. 22	3119	708	88	1388

Alphabetical list of inventions—Continued.

Invention.	Name.	No.	Date.	Monthly volume.		Official Gazette.	
				Spec.	Dr'g.	Vol.	Page.
Potato cutting and planting machine	J. F McCann	631,027	Aug. 15	2433	551	88	1235
Potato-digger	J. E. Baird	633,091	Sept. 12	1667	393	88	2050
Potato-digger	M. G. Bean	630,167	Aug. 1	820	177, 178	88	885
Potato-digger	J. Becker	626,961	June 13	1397	308	87	1903
Potato-digger	P. Brown	628,444	July 11	928	216	88	198
Potato-digger	D. Buchanan	630,177	Aug. 1	837	180	88	888
Potato-digger	W. J. Dawson	627,485	June 27	2370	522	87	2131
Potato-digger	C. C. Dupre	621,232	Mar. 14	1299	287	86	1766
Potato-digger	J. Hist	625,766	May 30	3290	746	87	1419
Potato-digger	R. B. Patterson	617,992	Jan. 17	2150	479, 480	86	458
Potato-digger	E. Puttkammer	329,920	Aug. 1	340	75	88	788
Potato-digger	B. A. Reynolds	617,513	Jan. 10	1235	282	86	260
Potato-digger	H. I. Schenck	627,534	June 27	2465	543	87	2150
Potato-digger	S. C. Schofield	627,145	June 20	1717	377	87	1985
Potato-digger	J. Skinner	628,495	July 11	1015	236, 237	88	216
Potato-digger	J. D. Wilcox	632,034	Aug. 29	4266	959	88	1623
Potato digger and sorter	A. S. McDonald	622,970	Apr. 11	1413	325	87	289
Potato-digging machine	B. R. Pratt	622,072	Mar. 28	2845	641	86	2093
Potato-grading machine	C. B. Speaks	635,406	Oct. 24	2687	616	89	579
Potato-masher	G. B. St. John	628,998	July 18	1968	457	88	420
Potter's tool	H. K. Headley	637,781	Nov. 28	3335	698	89	1683
Pottery and making thereof	C. O. Purinton	617,299	Jan. 3	831	------	86	164
Pottery. Manufacture of	W. M. Wolcott	622,746	Apr. 11	1011	236	87	212
Pottery-ware brushing apparatus	D. Hufhand	637,793	Nov. 28	3356	703, 704	89	1688
Poultices warm. Appliance for keeping	H. E. Grimball	619,564	Feb. 14	1395	320	86	1101
Poultry culture. Device for use in	S. Githens	627,918	June 27	3169	694	87	2292
Poultry device	W. R. Magee	633,554	Sept. 19	2536	595	88	2230
Poultry-fattening booth	W. S. Furnas	638,108	Nov. 28	3972	835	89	1809
Pouring-stand and overflow or drip trough. Adjustable	F. M. Mackin	633,872	Sept. 26	3126	726	88	2362
Powder. Blasting-	H. Boyd	622,990	Apr. 11	1448	------	87	295
Powder-box	W. H. Atkinson	621,780	Mar. 28	2311	520	86	1990
Powder-box	E. H. Lyon	621,686	Mar. 21	2126	474	86	1940
Powder-container top	I. G. Leek	637,514	Nov. 21	2477	537	89	1455
Powder-distributing can	J. F. Sprain	622,285	Apr. 4	155	36	87	32
Powder-grain	F. H. McGahie	622,777	Apr. 11	1065	247, 248	87	222
Powder. Gun-	F. A. Halsey	625,499	May 23	2811	------	87	1308
Powder measuring, delivering, and wrapping apparatus.	F. L. Seely	634,837	Oct. 10	1583	371	89	332
Powder-papers. Package for	O. L. Etnier	626,681	June 13	845	193	87	1798
Power: *See* Churn-power. Tide-power. Horse-power. Wave-power. Mechanical power. Wave and tide power.							
Power and reversing its motion. Means for transmitting	H. F. Probert	624,973	May 16	1879	422	87	1105
Power. Apparatus for generating mechanical	C. G. Curtis	635,919	Oct. 31	3654	843, 844	89	780
Power. Direct conversion of energy of fuel and an expansion medium into	A. Howard and W. R. Green	617,530	Jan. 10	1272	289, 290	86	268
Power-driven tool	W. F. Barrett	630,439	Aug. 8	1377	308	88	1005
Power-driven tool	F. H. Cathcart	630,589	Aug. 8	1653	370	88	1059
Power machine. Manual-	J. H. Smith	625,475	May 23	2760	628, 629	87	1297
Power. Means for transmitting	H. Paulson	620,169	Feb. 28	2508	570	86	1355
Power mechanism	H. D. Leeking	636,409	Nov. 7	302	68, 69	89	982
Power mechanism	E. R. Rogers and J. F. Cushman	626,844	June 13	1164	259, 260	87	1857
Power-shovel	J. Kiesler	624,659	May 9	1300	290	87	974
Power-shovel	J. Kiesler	624,660	May 9	1301	290	87	974
Power-transmission apparatus	J. W. Hall	626,996	June 13	1459	320, 321, 322	87	1915
Power-transmission device	W. T. Kammann	618,101	Jan. 24	2378	531	86	516
Power-transmitter	G. B. Birrell	627,383	June 20	2179	478	87	2078
Power-transmitter	R. F. Nichols	629,461	July 25	2803	651	88	602
Power transmitter. Variable	L. M. Dieterich	634,327	Oct. 3	682	165	89	137
Power-transmitting device	J. G. Falcon	626,993	June 13	1454	319	87	1915
Power-transmitting device	A. W. Foster	632,455	Sept. 5	450	101	88	1796
Power-transmitting device	H. W. Struss	621,436	Mar. 21	1653	365	86	1847
Power-transmitting machinery	E. Winans	618,156	Jan. 24	2496	554, 555	86	538
Power-transmitting machinery	E. Winans	639,879	Dec. 26	3117	716	89	2582
Power-transmitting mechanism	J. H. Auble	627,467	June 27	2342	516	87	2126
Power-transmitting mechanism	J. H. Auble	627,468	June 27	2345	516	87	2126
Power-transmitting mechanism	G. B. Birrell	627,382	June 20	2176	478	87	2077
Power-transmitting mechanism	W. E. Curtis	623,992	May 2	73	16	87	716
Power-transmitting mechanism	F. Dürr	618,401	Jan. 31	2966	658	86	642
Power-transmitting mechanism	B. Jansen	632,944	Sept. 12	1393	322	88	1996
Power-transmitting mechanism	L. Knopf	630,899	Aug. 15	2190	498	88	1187
Power-transmitting mechanism	B. S. Lawson	634,174	Oct. 3	352	90	89	73
Power-transmitting mechanism	J. K. Priest	627,202	June 20	1817	398	87	2005
Power-transmitting mechanism	D. Rudomin	624,381	May 2	797	179	87	853
Power-transmitting mechanism	G. S. Strong	637,297	Nov. 21	2074	444, 445, 446	89	1374
Power-transmitting member	F. W. Blanchard	632,168	Aug. 29	4517	1017	88	1673
Precious metal from ores. Apparatus for extracting	L. E. Porter	639,766	Dec. 26	2926	674	89	2495
Precious metals. Apparatus for concentrating and amalgamating	W. W. Habersham	618,006	Jan. 17	2174	485, 486	86	462

Alphabetical list of inventions—Continued.

Invention.	Name.	No.	Date.	Monthly volume. Spec.	Monthly volume. Dr'g.	Official Gazette. Vol.	Official Gazette. Page.
Precious metals from ores. Apparatus for extracting	L. E. Porter	617,512	Jan. 10	1232	281	86	260
Precious metals from ores. Extracting	H. de Raasloff	636,288	Nov. 7	113	------	89	945
Precious metals from ores or slimes. Process of and apparatus for extracting	H. Riecken	619,349	Feb. 14	1026	231	86	1030
Precious metals from ores. Separating	W. H. Baker	630,842	Aug. 15	2086	471, 472	88	1167
Precious metals from rock, sand, &c. Apparatus for extracting	J. F. Latimer	636,675	Nov. 7	806	178	89	1085
Precious metals from their cyanid solutions. Precipitation of	M. B. Zerener	638,372	Dec. 5	358	75	89	1935
Precious metals from their ores. Apparatus for separating	J. R. Macmaster	617,466	Jan. 10	1159	265	86	244
Precious metals from their ores. Extracting	J. E. Greenawalt	631,040	Aug. 15	2459	557	88	1240
Precious metals from their ores. Means for extracting	F. B. Aspinall and E. C. Ekstromer	622,408	Apr. 4	374	85, 86	87	70
Precious metals. Treating ores containing	F. W. Martino and F. Stubbs	635,793	Oct. 31	3408	------	89	733
Prepayment or coin-in-the-slot machine	W. L. Dennis	640,112	Dec. 26	3549	815, 816	89	2621
Preservative compound	E. May	626,435	June 6	406	------	87	1692
Preserve-jar	A. Heinemann	639,038	Dec. 12	1561	358	89	2191
Preserve-jar and stopper	L. S. Hoyt	634,240	Oct. 3	496	128	89	101
Preserve-jar or cover therefor	J. E. Lemyre	638,022	Nov. 28	3804	800	89	1777
Preserving berries	N. H. Fooks	636,250	Nov. 7	41	10	89	933
Preserving fish, &c	H. W. Rappleye	626,771	June 13	1009	227	87	1828
Preserving food	C. E. Fitzgerald and G. Prescott	632,405	Sept. 5	353	80	88	1776
Preserving foods	F. Stark	619,446	Feb. 14	1204	------	86	1063
Preserving-jar	C. E. De Lancey	625,091	May 16	2081	468	87	1142
Preserving liquids. Method of and means for	H. V. Walker	625,280	May 16	2414	547	87	1205
Preserving organic material. Apparatus for	F. and G. de Rechter	626,772	June 13	1011	228	87	1828
Preserving pickled goods. Apparatus for	J. H. Dale and T. C. Green	630,669	Aug. 8	1798	405	88	1085
Press: *See* Adjustable press. Bale-compressing press. Bale-cotton press. Baling-press. Brick-press. Briquet-press. Cider-press. Cloth-finishing press. Copying-press. Cotton-press. Die-press. Filter-press. Fruit-press. Fruit or vegetable press. Glass-press. Hay-press. Hydraulic press. Hydraulic rocking press. Lard-press. Letter-press. Lithographic-printing press. Manual-power press. Metal-shaping press. Molding-press. Oil-press. Perfecting-press. Picture-mounting press. Piercing-press. Printing-press. Punching-press. Seal-press. Sheet-metal-working press. Soap-press. Stamping-press. Tobacco-press. Transfer-press. Vulcanizing-press. Wine or lard press.							
Press	G. F. Cross	633,812	Sept. 26	3016	701	88	2341
Press	A. A. Dickson	624,630	May 9	1254	280	87	966
Press	E. Hett	637,604	Nov. 21	2996	616, 617	89	1592
Press	J. W. McQueen	630,918	Aug. 15	2222	506, 507	88	1193
Press	G. B. Shepherd	626,727	June 13	933	212	87	1813
Press	C. C. Small	635,196	Oct. 17	2251	524, 525	89	479
Press	G. Sumner and H. A. Webber	635,083	Oct. 17	2040	481	89	440
Press	J. C. Taft	631,447	Aug. 22	3190	724	88	1403
Press	J. M. H. and U. G. S. Walters	639,797	Dec. 26	2983	686	89	2508
Press controlling-engine	E. Hett	637,569	Nov. 21	2755	574, 575, 576	89	1527
Press controlling-engine	E. Hett	637,570	Nov. 21	2778	577	89	1534
Press controlling-engine	E. Hett	637,571	Nov. 21	2790	578, 579	89	1538
Press-drill	C. B. Dempster, F. H. Kline, and R. H. Sleister.	624,913	May 16	1770	399, 400	87	1085
Press for compressing bills, &c	C. T. Painter and C. L. Knoedler	628,183	July 4	424	100	88	86
Press for expressing liquids from solids	L. Baggett	626,646	June 6	766	175, 176	87	1762
Press for extracting oil, &c	C. E. Snypp	632,158	Aug. 29	4502	1014	88	1670
Press-plate	C. E. Snypp	632,156	Aug. 29	4500	1013	88	1670
Press-plate	C. E. Snypp	632,157	Aug. 29	4501	1013	88	1670
Press safety attachment	T. A. Dicks and W. A. Warman	618,064	Jan. 24	2307	515	86	503
Press safety attachment	T. A. Dicks and W. A. Warman	618,065	Jan. 24	2310	515, 516	86	504
Presses. Case holder for	J. C. Taft	631,448	Aug. 22	3191	725	88	1403
Pressing and finishing textile fabrics	J. Sarfert	634,652	Oct. 10	1253	297	89	267
Pressing board. Seam-	G. H. Lockard	627,648	June 27	2688	589	87	2194
Pressure-gage	C. L. Burdick	621,486	Mar. 21	1755	391	86	1866
Pressure-gage	E. D. Densmore and G. Le Clear	622,761	Apr. 11	1042	241	87	218
Pressure-gage	A. L. Nicla, J. H. Optenberg, and E. H. Sonneman.	631,809	Aug. 29	3870	864	88	1545
Pressure-gage	P. Swenson	635,523	Oct. 24	2900	662	89	621
Pressure-gage. Differential	C. B. Heintz	638,052	Nov. 28	3851	809	89	1786
Pressure indicator. Mean-effective-	G. F. Atwood	624,151	May 2	391	80	87	775
Pressure or vacuum gage	E. Hervais	632,942	Sept. 12	1390	321	88	1995
Pressure-regulator	A. Kleinfeldt	638,251	Dec. 5	95	22	89	1884

Alphabetical list of inventions—Continued.

Invention.	Name.	No.	Date.	Monthly volume. Spec.	Monthly volume. Dr'g.	Official Gazette. Vol.	Official Gazette. Page.
Pressure-regulator	W. B. Mason	617,933	Jan. 17	2054	460, 461	86	441
Pressure-regulator	F. H. Sauer	625,520	May 23	2843	648	87	1314
Pressure-regulator and connection	H. M. Dunlap	632,808	Sept. 12	1145	263	88	1949
Price-list	C. Rust, Jr	624,254	May 2	571	122	87	808
Prickly-pear or cactus burner	J. S. Ellison	634,130	Oct. 3	280	68	89	59
Primary battery	E. Baines	628,739	July 11	1496	346	88	312
Primary battery	H. Blumenberg, Jr., and F. C. Overbury.	638,038	Nov. 28	3835	806	89	1783
Printed and type-written work. Assimulating	S. A. Neidich	640,013	Dec. 26	3363	------	89	2582
Printed fabric and printing same	T. F. Stimpson	638,818	Dec. 12	1183	265	89	2117
Printed matter. Cutting apparatus for sheets containing	E. A. Henkle	634,342	Oct. 3	718	171	89	144
Printed or coated fabrics. Machine for drying	J. J. Beale	639,650	Dec. 19	2695	620	89	2432
Printer's chase and form-lock	G. W. Wilkinson	625,005	May 16	1928	432	87	1115
Printers' cylinders or tubes. Apparatus for handling	E. Hett	637,580	Nov. 21	2852	588, 589	89	1554
Printer's fudge	G. E. Wilson	633,933	Sept. 26	3219	750, 751	88	2381
Printer's furniture	A. Paterson	634,024	Oct. 3	75	20	89	19
Printer's furniture	F. Wesel	619,060	Feb. 7	503	106	86	908
Printer's galley-lock	W. C. Barnes	625,238	May 16	2336	532	87	1191
Printers' ink-rollers. Utilizing waste portions of	J. Takamine	635,821	Oct. 31	3463	------	89	743
Printers' inking-rollers. Composition for	E. L. Perry	630,517	Aug. 8	1523	------	88	1032
Printer's lock-up and furniture	W. G. Slauson	638,072	Nov. 28	3880	817	89	1792
Printer's overlay and making same	E. Bierstadt and T. B. De Vinne	634,259	Oct. 3	545	136	89	109
Printer's roller jacket	E. L. Perry	633,152	Sept. 19	1797	423	88	2086
Printers' rollers. Machine for making	L. Groff	623,538	Apr. 25	2471	569	87	532
Printer's rule, circle, &c	I. W. Allsbaugh	631,060	Aug. 15	2496	565	88	1248
Printing	J. T. Robertson and H. G. Mandel	617,909	Jan. 17	2021	451	86	432
Printing and addressing machine. Combined	C. M. Runyan and J. L. Sullivan	622,541	Apr. 4	647	152	87	123
Printing and embossing machine. Plate-	C. E. Brinkworth	634,658	Oct. 10	1268	300	89	270
Printing and registering machine	W. I. Ohmer and W. M. Kelch	626,084	May 30	3938	894, 895, 896	87	1541
Printing apparatus	B. A. Brooks	635,649	Oct. 24	3122	718, 719, 720	89	664
Printing apparatus. Bag-machine	W. P. Ormsby	618,286	Jan. 24	2728	604, 605	86	581
Printing apparatus. Color-	P. G. Frauenfelder and W. H. McEntee.	637,379	Nov. 21	2241	482	89	1409
Printing apparatus. Color-	P. G. Frauenfelder and W. H. McEntee.	637,380	Nov. 21	2244	483	89	1410
Printing. Apparatus for graining metallic plates for surface	J. H. Smith	622,554	Apr. 4	670	156	87	128
Printing apparatus. Yarn-	T. H. Hughes	618,354	Jan. 24	2843	631, 632	86	602
Printing. Art of and apparatus for making ready forms for	J. W. Osborne	626,031	May 30	3846	872, 873, 874	87	1525
Printing attachment for roll-holders	G. H. Schubert	639,101	Dec. 12	1677	387	89	2213
Printing attachment for roll-paper holders	J. W. Buell	628,445	July 11	929	216	88	198
Printing attachment for roll-paper holders	F. Kostlan	627,583	June 27	2557	563	87	2167
Printing attachment for roll-paper holders	E. McConville	631,028	Aug. 15	2434	552	88	1235
Printing attachment for roll-paper racks or holders	J. W. Luke	636,154	Oct. 31	4122	943	89	873
Printing-block. Composite engraved	D. J. Russell	631,862	Aug. 29	3958	885	88	1563
Printing-blocks. Adjustable clamp for	S. E. Dittman	633,506	Sept. 19	2448	577	88	2214
Printing-blocks. Apparatus for applying bushings to	E. L. Farr	632,783	Sept. 12	1096	254	88	1939
Printing, checking, and issuing railway or other tickets. Machine for	E. M. Bossuet	617,313	Jan. 10	860	202, 203	86	187
Printing, counting, and issuing tickets. Apparatus for	L. P. Monier and G. Gloeckler	634,535	Oct. 10	1056	251, 252, 253	89	229
Printing-cylinder-handling apparatus	E. Hett	637,579	Nov. 21	2849	587, 588	89	1552
Printing-cylinders. System for handling	E. Hett	637,584	Nov. 21	2870	593, 594	89	1557
Printing cylindrical objects. Machine for	G. Eickhoff and P. E. T. Juhl	624,771	May 9	1501	341	87	1015
Printing designs. Making	G. R. Cornwall	630,664	Aug. 8	1790	------	88	1084
Printing device	E. E. Ham	636,524	Nov. 7	518	114	89	1026
Printing device. Hand	F. E. Wellington	637,220	Nov. 14	1924	412	89	1330
Printing fabrics	T. F. Stimpson	638,819	Dec. 12	1185	265	89	2117
Printing-film holder	F. Bank	634,977	Oct. 17	1839	436	89	399
Printing-form	C. M. Bowman	626,649	June 6	776	176, 177	87	1765
Printing-form and printing-press	E. Hett	637,561	Nov. 21	2680	561	89	1509
Printing in colors. Machine for	L. Chambon	626,270	June 6	84	21, 22, 23, 24	87	1631
Printing in colors. Machine for	J. Meyrueis	618,252	Jan. 24	2666	590, 591, 592	86	569
Printing in several colors. Machinery for	E. Lambert	634,144	Oct. 3	302	77	89	64
Printing in several colors. Machinery for	E. Lambert	634,145	Oct. 3	305	78	89	64
Printing inking mechanism. Multicolor	A. D. Keneston	639,247	Dec. 19	1948	449	89	2281
Printing-machine	C. P. Cottrell	621,749	Mar. 21	2248	507, 508	86	1962
Printing-machine	J. L. Firm	637,330	Nov. 21	2143	462, 463	89	1389
Printing-machine	J. A. Gledhill and J. C. Whitney	618,793	Jan. 31	3651	816, 817, 818	86	774
Printing-machine	N. Kopp	635,326	Oct. 24	2487	578	89	540

Alphabetical list of inventions—Continued.

Invention.	Name.	No.	Date.	Monthly volume. Spec.	Monthly volume. Drg.	Official Gazette. Vol.	Official Gazette. Page.
Printing-machine	J. Meyrueis	618,253	Jan. 24	2671	592	86	569
Printing-machine	T. M. North	635,972	Oct. 31	3749	866, 867	89	797
Printing-machine	G. E. Pancoast	627,592	June 27	2585	569, 570	87	2173
Printing-machine	J. A. Sackville and J. H. Swallow	623,629	Apr. 25	2633	601	87	561
Printing-machine	J. A. Sackville and J. H. Swallow	632,372	Sept. 5	295	68	88	1765
Printing-machine	W. Scott	625,470	May 23	2753	626, 627	87	1296
Printing-machine	E. G. Smith	633,967	Sept. 26	3289	766	88	2394
Printing-machine	L. W. Southgate	639,784	Dec. 26	2959	681	89	2501
Printing-machine	W. Spalckhaver	616,981	Jan. 3	212	48, 49, 50	86	42
Printing-machine	W. Spalckhaver	616,982	Jan. 3	217	50, 51	86	43
Printing-machine	W. Spalckhaver	636,862	Nov. 14	1203	260, 261	89	1192
Printing-machine	F. M. Spurr	637,359	Nov. 21	2201	474	89	1400
Printing-machine	H. A. W. Wood	638,308	Dec. 5	230	48	89	1910
Printing-machine	H. A. W. Wood	639,801	Dec. 26	2992	688, 689	89	2509
Printing-machine	H. A. W. Wood	639,802	Dec. 26	2996	689, 690	89	2510
Printing-machine. Bed-and-cylinder	L. C. Crowell	622,125	Mar. 28	2944	667, 668	86	2112
Printing-machine. Bed-and-cylinder	L. C. Crowell	622,126	Mar. 28	2948	668	86	2113
Printing-machine. Bed-and-cylinder	L. C. Crowell	622,127	Mar. 28	2955	669	86	2115
Printing-machine. Cylinder	C. Potter	619,788	Feb. 21	1845	421	86	1213
Printing-machine. Cylinder	C. Potter	628,490	July 11	1007	234, 235	88	215
Printing-machine. Electric	G. L. Campbell	619,667	Feb. 14	1583	361, 362	86	1136
Printing-machine. Electrically-connected	C. A. Shea and J. J. O'Lalor	623,293	Apr. 18	2031	467	87	426
Printing machine. Fabric-	H. M. Harley	639,382	Dec. 19	2216	513	89	2336
Printing-machine for oil-cloth, linoleum, &c	E. L. Farr	638,326	Dec. 5	260	54	89	1916
Printing-machine inking device	J. H. Prouty	631,126	Aug. 15	2612	591	88	1269
Printing-machine late-news device	W. Spalckhaver	636,363	Nov. 7	231	51	89	967
Printing machine. Match-	J. Boulard	621,893	Mar. 28	2528	569, 570, 571	86	2031
Printing or numbering device	H. Nathan	619,209	Feb. 7	781	170	86	965
Printing-machine perforator. Web-	R. C. Annand	634,255	Oct. 3	539	135	89	108
Printing machine. Plate-	E. S. Bradford	625,315	May 23	2487	564, 565	87	1245
Printing machine. Plate-	E. Fischer	639,893	Dec. 26	3150	724	89	2538
Printing-machine. Platen	M. T. Barber	635,737	Oct. 31	3302	761, 762	89	712
Printing-machine. Platen	M. T. Barber	637,916	Nov. 28	3598	753, 754	89	1738
Printing machine. Polychrome-	H. de Montin	628,719	July 11	1457	338, 339	88	303
Printing machine. Stencil-	S. H. Sharp	636,071	Oct. 31	3978	909, 910	89	844
Printing machine. Web-	P. M. Gelatt	639,168	Dec. 12	1781	412, 413	89	2234
Printing-machine. Web-perfecting and half-tone	W. Spalckhaver	636,861	Nov. 14	1201	259, 260	89	1192
Printing-machines. Offset mechanism for perfecting	F. Meisel	640,163	Dec. 26	3631	835	89	2638
Printing-machines. Mechanism for preventing offset in	C. E. Pattberg	633,898	Sept. 26	3169	736	88	2370
Printing mechanism. Duplex web-	W. Spalckhaver	627,311	June 20	2026	445	87	2048
Printing menus, &c. Press for	A. G. Sargent and L. B. Martin	623,930	Apr. 25	3203	737, 738	87	671
Printing. Multicolor-	E. Hett	637,557	Nov. 21	2596	556, 557	89	1480
Printing. Multicolor-	E. Hett	637,558	Nov. 21	2620	557, 558	89	1487
Printing. Multicolor-	E. Hett	637,559	Nov. 21	2652	558, 559, 560	89	1500
Printing multicolored designs. Process of and apparatus for	C. Dratz	627,329	June 20	2058	453, 454	87	2054
Printing on boards. Machine for	J. Connell	638,906	Dec. 12	1335	303, 304	89	2147
Printing on cards. Apparatus for stencil-	F. Ellam	625,876	May 30	3514	798	87	1462
Printing on lead-pencils. Device for	F. E. Wellington	630,149	Aug. 1	789	170	88	879
Printing or other machines. Apparatus for feeding sheets of paper to	W. Carter	631,950	Aug. 29	4102	920, 921	88	1590
Printing-plate	J. S. Duncan	636,504	Nov. 7	470	105	89	1015
Printing-plate and producing same. Composite	P. M. Furlong	625,666	May 23	3092	703	87	1363
Printing-plate holder. Instantaneous	S. and M. Maybell	628,250	July 4	552	132	88	108
Printing-plates. Machine for making	J. S. Duncan	624,764	May 9	1486	337, 338, 339	87	1012
Printing-plates. Machine for making	J. S. Duncan	638,176	Nov. 28	4098	865, 866	89	1834
Printing-plates to cylinders. Fastening device for securing	E. S. Bradford	625,316	May 23	2491	565, 566	87	1246
Printing-plates. Tool for lightening and softening surfaces of	E. C. Muller	624,961	May 16	1861	418	87	1102
Printing. Preparation of surfaces for planographic	G. H. Block	622,879	Apr. 11	1262	------	87	258
Printing-press	H. F. Bechman	632,628	Sept. 5	750	172, 173	88	1854
Printing-press	L. L. Carson	626,965	June 13	1402	309	87	1904

Alphabetical list of inventions—Continued.

Invention.	Name.	No.	Date.	Monthly volume.		Official Gazette.	
				Spec.	Drg.	Vol.	Page.
Printing-press	L. L. Carson	627,047	June 13	1545	337, 338	87	1932
Printing-press	J. L. Firm	631,424	Aug. 22	3154	715, 716, 717	88	1395
Printing-press	S. G. Goss	637,777	Nov. 28	3329	697	89	1681
Printing-press	J. B. Grosse	638,237	Dec. 5	61	14	89	1878
Printing-press	F. J. Harbridge	622,427	Apr. 4	402	93	87	75
Printing-press	E. A. Henkle	634,819	Oct. 10	1548	364	89	324
Printing-press	E. Hett	637,582	Nov. 21	2860	589, 590, 591	89	1555
Printing-press	E. Hett	637,594	Nov. 21	2915	601	89	1570
Printing-press	E. Hett	637,602	Nov. 21	2985	613, 614, 615	89	1590
Printing-press	E. Hett	637,603	Nov. 21	2992	615, 616	89	1592
Printing-press	E. Hett	637,605	Nov. 21	3001	617, 618	89	1593
Printing-press	E. Hett	637,606	Nov. 21	3007	618, 619, 620	89	1595
Printing-press	E. Hett	637,607	Nov. 21	3011	620, 621	89	1596
Printing-press	E. Hett	637,608	Nov. 21	3014	621, 622	89	1597
Printing-press	E. Hett	637,609	Nov. 21	3025	623	89	1601
Printing-press	H. H. Hoskins	630,701	Aug. 8	1844	416	88	1094
Printing-press	B. Huber and W. K. Hodgman	631,745	Aug. 22	3745	840	88	1510
Printing-press	W. G. Johnston	621,682	Mar. 21	2121	472	86	1938
Printing-press	J. M. Jones	619,828	Feb. 21	1903	434	86	1224
Printing-press	C. G. Lanier	625,572	May 23	2935	666	87	1332
Printing-press	R. Miehle	637,813	Nov. 28	3388	710	89	1694
Printing-press	J. C. Molloy	626,076	May 30	3918	890, 891	87	1538
Printing-press	T. M. North	629,388	July 25	2671	623	88	576
Printing-press	T. M. North	629,911	Aug. 1	312	70, 71	88	780
Printing-press	T. M. North	629,912	Aug. 1	316	71, 72	88	781
Printing-press	T. M. North	629,913	Aug. 1	319	72	88	783
Printing-press	T. M. North	629,914	Aug. 1	322	73	88	784
Printing-press	P. M. Randall, Jr	618,186	Jan. 24	2559	566	86	549
Printing-press	O. Roesen	629,968	Aug. 1	452	97	88	812
Printing-press	W. Scott	633,616	Sept. 26	2690	626, 627	88	2274
Printing-press	W. Spalckhaver	627,447	June 20	2300	506, 507	87	2101
Printing-press	J. P. Stevens	625,210	May 16	2279	518, 519	87	1180
Printing-press	A. R. Stone	632,766	Sept. 12	1062	246	88	1932
Printing-press	J. A. Svensson	634,311	Oct. 3	647	157, 158	89	131
Printing-press	P. S. Wise	635,831	Oct. 31	3486	801	89	747
Printing-press	H. A. W. Wood	618,490	Jan. 31	3117	690	86	669
Printing-press attachment	J. B. Bell	632,395	Sept. 5	339	76, 77	88	1773
Printing-press. Bed-and-cylinder	F. Frisch	631,398	Aug. 22	3105	703	88	1385
Printing-press bed-motion	W. B. Yates	620,630	Mar. 7	149	31	86	1531
Printing-press bronzing and dusting attachment	E. Hett	637,572	Nov. 21	2802	579, 580, 581	89	1540
Printing-press delivery apparatus	S. G. Goss	621,814	Mar. 28	2374	530	86	2001
Printing-press delivery mechanism	G. F. Read	639,770	Dec. 26	2933	675	89	2496
Printing-press feeder	J. F. McNutt	617,404	Jan. 10	1051	239, 240	86	224
Printing-press feeding device	R. C. Berry	622,106	Mar. 28	2908	659, 660	86	2106
Printing-press feeding device	E. S. Bradford	625,317	May 23	2492	566	87	1246
Printing-press feeding-machine attachment	W. G. Trevette	629,830	Aug. 1	126	30, 31, 32	88	745
Printing-press folding and delivery mechanism	J. L. Firm	635,719	Oct. 24	3241	747	89	688
Printing-press form-supporting bed	S. Whitlock	637,055	Nov. 14	1585	342	89	1267
Printing-press gripper	A. Olmesdahl	629,089	July 18	2138	497	88	455
Printing-press gripper attachment. Platen	A. W. Knox	621,101	Mar. 14	1064	232	86	1719
Printing-press guiding and delivering device	E. Hett	637,573	Nov. 21	2812	581, 582	89	1542
Printing-press. Hand	W. E. Van Valkenburgh	627,368	June 20	2149	473	87	2072
Printing-press inking apparatus	E. S. Bradford	625,318	May 23	2493	566, 567	87	1246
Printing-press inking apparatus	B. Huber	625,771	May 30	3299	748	87	1421
Printing-press inking apparatus	W. Scott	626,871	June 13	1234	272, 273	87	1871
Printing-press inking apparatus	W. Scott	626,872	June 13	1237	273	87	1871
Printing press. Multicolor	E. Hett	637,564	Nov. 21	2707	563, 564, 565	89	1516
Printing press. Multicolor	E. Hett	637,566	Nov. 21	2722	566, 567	89	1521
Printing press. Multicolor	E. Hett	637,577	Nov. 21	2843	585, 586	89	1551
Printing press. Multicolor	I. Orloff	632,322	Sept. 5	209	48, 49	88	1742
Printing-press offset mechanism	R. Miehle	636,442	Nov. 7	357	81	89	993
Printing-press perforator	A. C. Miller	639,206	Dec. 12	1867	430	89	2249
Printing press. Plate	J. T. Robertson	622,168	Mar. 28	3038	687, 688	86	2132

Alphabetical list of inventions—Continued.

Invention.	Name.	No.	Date.	Monthly volume. Spec.	Monthly volume. Drg.	Official Gazette. Vol.	Official Gazette. Page.
Printing-press. Platen	F. A. Burnham	624,452	May 9	929	207, 208	87	903
Printing-press. Platen	A. Joisten	636,340	Nov. 7	184	41	89	958
Printing-press. Platen	F. C. Sixt	627,017	June 13	1501	328	87	1924
Printing-press platen	T. D. Oakley	636,547	Nov. 7	556	124	89	1033
Printing-press rotary paper-cutter	W. S. Huson	636,997	Nov. 14	1487	320	89	1247
Printing-press sheet-adjuster	C. P. Babcock	617,456	Jan. 10	1143	260	86	240
Printing-press sheet-adjuster	W. Carter	617,851	Jan. 17	1895	423	86	409
Printing-press sheet-delivery apparatus. Platen	J. H. F. Markmann	623,799	Apr. 25	2956	675	87	624
Printing-press shifting tympan	H. F. Bechman	627,089	June 20	1623	355	87	1966
Printing-press stop-motion	T. M. North	629,087	July 18	2130	495, 496	88	453
Printing-press tympan	A. S. Allen	629,183	July 18	2302	534	88	485
Printing-presses. Brake and adjusting device for web-rolls of	J. M. Rice	628,148	July 4	357	85	88	72
Printing-presses. Journal-bearing for form-rollers of	R. L. Berry	628,387	July 4	817	190	88	156
Printing-presses. Motor-controller for	H. H. Cutler	630,330	Aug. 8	1126	246	88	959
Printing-presses. Motor-controller for	H. H. Cutler	630,331	Aug. 8	1129	247	88	960
Printing purposes. Zinc bed for	H. Burlich and G. Walzel	637,920	Nov. 28	3604	755	89	1739
Printing, stamping, or canceling machine	R. C. Berry	622,107	Mar. 28	2914	660, 661, 662	86	2107
Printing stockings, &c. Machine for	C. Horn	631,716	Aug. 22	3687	827	88	1500
Printing-surface	C. A. O. Rosell	637,552	Nov. 21	2557	------	89	1470
Printing-surface	C. A. O. Rosell	637,553	Nov. 21	2559	------	89	1471
Printing-surface	C. A. O. Rosell	637,554	Nov. 21	2561	------	89	1471
Printing-surfaces by photography. Means for and process of making	J. T. Bentley	632,437	Sept. 5	412	92, 93	88	1788
Printing-surfaces. Machine for making	E. Hett	637,591	Nov. 21	2901	598, 599	89	1566
Printing-surfaces. Machine for making	E. Hett	637,593	Nov. 21	2911	600	89	1569
Printing-surfaces. Machine for making	E. Hett	637,597	Nov. 21	2956	608, 609	89	1582
Printing-surfaces. Machine for making	E. Hett	637,599	Nov. 21	2972	611, 612	89	1587
Printing-surfaces. Making	E. Hett	637,555	Nov. 21	2563	553, 554	89	1472
Printing-surfaces. Making	E. Hett	637,595	Nov. 21	2917	601, 602, 603, 604	89	1571
Printing-surfaces. Mechanism for making	E. Hett	637,556	Nov. 21	2581	555, 556	89	1477
Printing-surfaces. Mechanism for making	E. Hett	637,592	Nov. 21	2907	599, 600	89	1568
Printing-surfaces. Mechanism for making	E. Hett	637,596	Nov. 21	2933	604, 605, 606, 607, 608	89	1575
Printing-surfaces. Mechanism for making	E. Hett	637,598	Nov. 21	2966	609, 610, 611	89	1586
Printing-surfaces. Treating	E. Hett	637,588	Nov. 21	2888	------	89	1562
Printing wheel for time-recorders. Record-	F. J. Hull and W. Burchett	629,366	July 25	2628	611	88	566
Prints. Process of and apparatus for producing irisated	J. M. Heppler	624,030	May 2	143	32	87	730
Prints. Removing superfluous powder or dust from bronze	G. G. Torlina	628,563	July 11	1159	------	88	244
Prism-light frame	P. E. McIntosh	635,576	Oct. 24	2992	686	89	637
Prism-lights. Machine for grinding	F. C. Soper	638,189	Nov. 28	4128	872	89	1841
Prison-door operating and locking device	C. Schoenfeld	635,602	Oct. 24	3035	697, 698	89	645
Privy-seat attachment	N. Fisher	625,389	May 23	2616	595	87	1270
Projectile	F. Ahrens	620,400	Feb. 28	2917	668	86	1431
Projectile	H. and T. Andrews	627,929	June 27	3189	698	87	2296
Projectile	G. C. Baker	620,875	Mar. 14	632	138, 139	86	1639
Projectile	C. M. Brown	636,485	Nov. 7	438	97	89	1009
Projectile	M. C. Lisle	622,772	Apr. 11	1058	245	87	221
Projectile	M. C. Lisle	622,773	Apr. 11	1060	245	87	221
Projectile	G. H. Newell	621,697	Mar. 21	2142	477	86	1943
Projectile	G. H. Newell	621,698	Mar. 21	2143	477	86	1943
Projectile	J. O. Smith	632,027	Aug. 29	4254	956, 957	88	1620
Projectile	E. G. Wang	620,387	Feb. 28	2897	664	86	1428
Projectile. Explosive	F. Burger	627,611	June 27	2626	577	87	2182
Projectile. Explosive	C. Coleman	639,214	Dec. 19	1885	435	89	2266
Projectile gas-check	H. S. Maxim and A. T. Dawson	628,106	July 4	289	67, 68	88	57
Projectile or dart for blow-guns	J. G. Whittier	637,312	Nov. 21	2107	454	89	1381
Projectiles, &c. Apparatus for arranging	P. Pondorf	635,588	Oct. 24	3013	691, 692	89	641
Projectiles. Apparatus for manufacturing hollow-	E. F. Holinger	638,807	Dec. 12	1167	261	89	2114
Projectiles, cartridges, or like bodies. Apparatus for arranging	P. Pondorf	639,431	Dec. 19	2309	532	89	2352
Propeller	W. J. Carver	619,136	Feb. 7	650	140	86	938
Propeller	G. and G. Catanzano	636,488	Nov. 7	443	98	89	1010
Propeller	W. Wood	627,562	June 27	2517	553, 554	87	2160
Propeller. Adjustable	E. E. Truscott	617,373	Jan. 10	993	228	86	212
Propeller blade. Screw-	J. Glover	634,885	Oct. 17	1676	395	89	366
Propeller-blades. Means for securing	L. Davies	633,376	Sept. 19	2235	526	88	2172
Propeller. Boat-	A. N. Anderson	635,951	Oct. 31	3709	857	89	790
Propeller. Buoyant	A. L. P. Chasles	626,668	June 13	812	185, 186	87	1791

Alphabetical list of inventions—Continued.

Invention.	Name.	No.	Date.	Monthly volume. Spec.	Monthly volume. Dr'g.	Official Gazette. Vol.	Official Gazette. Page.
Propeller. Buoyant	G. H. Pond	633,903	Sept. 26	3175	737, 738	88	2372
Propeller. Chain	L. Kohn	629,570	July 25	3007	702	88	641
Propeller for ships. Hydraulic	A. Plecher	617,969	Jan. 17	2112	473	86	451
Propeller. Lateral-motion reversible marine	A. Reynolds	629,271	July 18	2442	565	88	510
Propeller. Marine	J. A. Hopewell	637,611	Nov. 21	3029	624	89	1602
Propeller. Oscillating	C. R. Birkby	619,714	Feb. 21	1694	387	86	1183
Propeller. Oscillating	D. R. Sheen	625,362	May 23	2573	586	87	1262
Propeller. Screw-	N. H. Borgfeldt	620,411	Feb. 28	2929	671	86	1433
Propeller. Screw-	A. H. Dingman	624,761	May 9	1481	336	87	1011
Propeller. Screw-	A. Howard	617,527	Jan. 10	1263	287, 288	86	266
Propeller. Screw-	R. B. Painton	624,674	May 9	1325	295, 296	87	980
Propeller. Screw-	T. Pounds	634,368	Oct. 3	756	180	89	151
Propeller. Screw-	L. T. Roberts	635,899	Oct. 31	3624	835	89	775
Propeller. Screw-	A. R. Weisz	633,171	Sept. 19	1836	432	88	2095
Propeller shafts. Cover or liner for screw-	J. Lyall	639,071	Dec. 12	1609	370	89	2199
Propeller. Shallow-water	V. A. Gates	634,664	Oct. 10	1280	302	89	273
Propeller. Ship's	J. A. Belk	639,134	Dec. 12	1729	399	89	2223
Propeller. Steering-	A. T. Otto	629,966	Aug. 1	447	96	88	811
Propeller. Submerged feathering-	E. F. Gorman and P. F. Yost	626,688	June 13	865	195, 196	87	1801
Propeller. Submerged feathering-	E. F. Gorman and P. F. Yost	630,499	Aug. 8	1487	333	88	1026
Propeller. Vessel-	J. S. Grant	634,574	Oct. 10	1130	268	89	242
Propeller. Vessel-	A. Sweetland	637,181	Nov. 14	1845	395	89	1314
Propeller-wheel	J. K. Bowman	620,413	Feb. 28	2932	671	86	1434
Propeller-wheel-molding device	F. Baldt	627,794	June 27	2944	644, 645	87	2245
Propellers of vessels. Means and apparatus for balancing forward thrusts of screw-	T. Inglis	624,497	May 9	1017	229	87	918
Propelling and braking mechanism	G. Beekman	638,693	Dec. 12	973	216	89	2075
Propelling and steering apparatus	I. Lehman	628,010	July 4	96	20	88	20
Propelling and steering vessels. Means for	H. A. Boes	638,211	Dec. 5	7	2, 3	89	1868
Propelling apparatus. Boat-	C. Wasek	637,051	Nov. 14	1576	340	89	1265
Propelling boats. Means for	H. H. Fefel	637,959	Nov. 28	3674	771, 772	89	1752
Propelling device	J. Holt	619,021	Feb. 7	428	89, 90	86	893
Propelling mechanism. Boat	W. Rankin	625,059	May 16	2023	455, 456	87	1133
Propelling mechanism. Boat	F. Schultz	626,304	June 6	157	38	87	1643
Propelling mechanism. Boat	P. R. Trethewey	625,942	May 30	3622	823	87	1483
Propelling mechanism for boats. Manual	C. R. Willis	636,479	Nov. 7	428	95	89	1008
Propelling mechanism. Ship	M. Stoehr	628,129	July 4	321	76, 77	88	65
Propelling mechanism. Vessel	T. Murphy	624,366	May 2	761	171	87	846
Propelling mechanism. Vessel	A. Stathakis	625,907	May 30	3567	809	87	1472
Propelling vessels, &c. Means for	B. Brown	635,035	Oct. 17	1933	459	89	417
Propelling vessels. Means for	J. H. Loader	624,953	May 16	1846	415	87	1099
Propelling vessels. Means for	M. H. C. and R. E. C. Shann	621,719	Mar. 21	2180	489, 490	86	1950
Propulsion. Marine	A. H. Lighthall	624,353	May 2	746	168	87	843
Propulsion. Means for marine	J. A. Secor	634,217	Oct. 3	436	111, 112, 113	89	91
Propulsion mechanism. Boat	A. Belz	618,555	Jan. 31	3242	720	86	693
Propulsion of vessels, &c. Means for propelling liquids applicable for use in	E. Tatham	632,662	Sept. 5	837	195, 196	88	1874
Propulsion of vessels. Pneumatic	W. Carr	626,140	May 30	4074	929, 930	87	1565
Propulsion. Vessel	J. and H. W. Ritchie	635,871	Oct. 31	3560	819, 820	89	761
Prospector's pan	W. H. Moore	634,120	Oct. 3	255	64	89	54
Protective or guard appliance	E. Frischmuth	635,470	Oct. 24	2812	642	89	605
Protective pad for mules used in coal-mines, &c	T. V. Wallace	625,714	May 23	3174	721	87	1380
Protector: *See* Draper-slat protector. Face-protector. Frost-protector. Pocket-protector. Thread-protector.							
Protractor	G. W. Sykes	621,177	Mar. 14	1198	261	86	1746
Provision-box. Window	H. G. Plumb	620,176	Feb. 28	2517	573	86	1356
Prune-dipper	E. C. Frazee	622,215	Apr. 4	33	8	87	9
Pruning implement	W. Ballerstedt	619,462	Feb. 14	1227	279	86	1068
Pruning implement	J. H. Bowers	634,607	Oct. 10	1181	280	89	252
Pruning implement	C. W. Herwick and E. J. Lonergan	638,116	Nov. 28	3984	839	89	1811
Pruning implement	I. Smith	623,633	Apr. 25	2640	603	87	562
Pruning-shears	H. J. Barnes	638,311	Dec. 5	236	49	89	1911
Pruning-shears	A. W. Conatser	639,525	Dec. 19	2460	568	89	2384
Pruning-shears	S. E. O'Dell	625,896	May 30	3543	804	87	1467
Puffing-iron	P. F. Clerc	624,455	May 9	935	209	87	904
Puller: *See* Beet-puller. Cork-puller. Hedge-puller. Spike-puller. Stalk and weed puller. Tree or vine puller. Weed-puller.							
Pulley	A. D. Cypher	627,177	June 20	1775	389	87	1997
Pulley and shaft coupling	S. E. Diescher	631,957	Aug. 29	4119	927	88	1594
Pulley. Ball-bearing	J. W. Parkin	630,101	Aug. 1	707	152	88	863
Pulley bearing and lubricator. Loose-	C. B. Yeager and H. Kastrup	620,068	Feb. 21	2330	529	86	1305
Pulley-brake and safety device	H. Böckmann	620,410	Feb. 28	2928	671	86	1433
Pulley. Clutch-	J. E. Franklin	631,740	Aug. 22	3733	838	88	1508
Pulley. Clutch-	T. J. O'Brien	634,367	Oct. 3	755	180	89	151
Pulley-covering	J. Jacobson and E. Wessman	619,486	Feb. 14	1269	290	86	1077
Pulley. Divided	W. A. Clark	634,260	Oct. 3	547	137	89	109
Pulley. Expansible	R. Heinle	623,246	Apr. 18	1939	444, 445	87	406

Alphabetical list of inventions—Continued.

Invention.	Name.	No.	Date.	Monthly volume. Spec.	Monthly volume. Dr'g.	Official Gazette. Vol.	Official Gazette. Page.
Pulley. Expansible	P. Sobège	640,040	Dec. 26	3417	783, 784	89	2594
Pulley. Expansion-	C. G. W. Wernicke	637,909	Nov. 28	3586	751	89	1735
Pulley-frame for carrying signal-wires, &c	L. W. Williams	631,193	Aug. 15	2719	615	88	1291
Pulley. Friction-	H. Wyman	627,084	June 13	1606	351	87	1943
Pulley-gear Adjustable	G. Code and H. Knudsen	633,426	Sept. 19	2325	548	88	2190
Pulley Grip-	A. Painter	639,762	Dec. 26	2920	672	89	2494
Pulley. Guide-	J. H. Flynn	629,899	Aug. 1	282	64	88	776
Pulley-rim clamps. Die for shaping	T. Corscaden	630,776	Aug. 8	1964	444	88	1119
Pulley-rims. Die for forming sheet-metal	E. G. Budd	634,284	Oct. 3	590	146	89	118
Pulley. Rope-	E. L. Wagner	630,760	Aug. 8	1934	437	88	1112
Pulley. Sash-	C. H. Ocumpaugh	619,212	Feb. 7	785	171	86	966
Pulley. Sash-	C. H. Ocumpaugh	620,489	Feb. 28	3055	699	86	1458
Pulley. Self-locking sling-	J. H. Burkholder	625,924	May 30	3597	817	87	1478
Pulley. Self-lubricating	G. Leecock	626,837	June 13	1157	256	87	1655
Pulley. Sheet-metal	C. A. Brinley	635,912	Oct. 31	3644	840	89	778
Pulley. Shifting mule-	A. G. Lawrence	619,491	Feb. 14	1279	292, 293	86	1079
Pulley. Split	G. P. Brubaker	639,351	Dec. 19	2138	492	89	2319
Pulley. Split	J. A. Dorman	630,868	Aug. 15	2131	483	88	1176
Pulley. Split belt-	C. Lefebvre	620,940	Mar. 14	747	164	86	1659
Pulley-spoke blanks. Die for finishing	T. Corscaden	630,450	Aug. 8	1398	313	88	1009
Pulley-spoke blanks. Die for shaping	T. Corscaden	630,036	Aug. 1	587	128	88	839
Pulley-spokes. Die for shaping blanks for	T. Corscaden	630,777	Aug. 8	1966	444, 445	88	1119
Pulley-truing machine	W. A. Marshall	627,862	June 27	3065	670	87	2268
Pulley. Washline-	A. Bastian	621,989	Mar. 28	2716	613	86	2067
Pulleys. Automatic lubricator for loose	K. Widmann	625,373	May 23	2589	589	87	1265
Pulp. Apparatus for manufacturing fibrous articles from	W. W., A., and F. McEwan	635,800	Oct. 31	3419	788	89	735
Pulp-board-making machine	A. W. and L. W. Case	633,072	Sept. 12	1600	373	88	2038
Pulp chip-breaking machine. Wood-	A. O. Lombard	629,262	July 18	2431	563	88	507
Pulp-chips. Step-screen for	W. A. Fannon	621,402	Mar. 21	1594	353	86	1836
Pulp-drying machine	S. S. Powers and C. R. Cook	633,089	Sept. 12	1660	392	88	2049
Pulp engine	F. L. Stevens	629,970	Aug. 1	455	98	88	813
Pulp-engine	S. S. Stevens	634,038	Oct. 3	97	25	89	23
Pulp-engine	S. S. Stevens	634,039	Oct. 3	98	25, 26	89	23
Pulp-grinding machine	H. J. Frink	636,225	Oct. 31	4261	979	89	901
Pulp. Means for forming hollow ware of	R. McAlpine	623,808	Apr. 25	2971	679, 680	87	627
Pulp. Molding fibrous	J. A. Wheeler	625,372	May 23	2588	------	87	1265
Pulp plaster and manufacturing same. Composition	D. H. Blake and J. P. Ray	624,446	May 9	915	------	87	901
Pulp-screen	J. H. Baker, G. F. Shevlin, and F. H. Baker.	625,237	May 16	2334	532	87	1191
Pulp-screening machine	C. Smith	630,123	Aug. 1	740	159, 160	88	870
Pulp. Wet machine for wood-	J. H. Baker, G. F. Shevlin, and F. H. Baker.	639,882	Dec. 26	3121	717, 718	89	2532
Pulverizer	J. A. Coons	629,712	July 25	3262	761	88	690
Pulverizer	J. H. Steele	630,125	Aug. 1	746	160	88	871
Pulverizer	W. M. Wheildon	635,114	Oct. 17	2111	495	89	453
Pulverizer	R. Yates	634,254	Oct. 3	537	135	89	108
Pulverizer feeding device	W. M. Wheildon	635,112	Oct. 17	2106	494	89	452
Pulverizer feeding device	W. M. Wheildon	635,113	Oct. 17	2109	494	89	452
Pulverizer Ore-	H. M. Williamson	631,239	Aug. 15	2792	633	88	1306
Pulverizer Soil-	E. E. Porter	619,219	Feb. 7	796	173	86	968
Pulverizing apparatus	W. A. Köneman	617,080	Jan. 3	323	76, 77	86	64
Pulverizing coffee, &c. Machine for	L. Fritz	635,436	Oct. 24	2751	629	89	591
Pulverizing-machine	G. Frisbee	627,579	June 27	2551	561, 562	87	2166
Pulverizing-machine	G. Frisbee	631,291	Aug. 22	2910	658, 659	88	1346
Pulverizing-machine	G. Frisbee	633,511	Sept. 19	2456	578, 579	88	2215
Pulverizing-machine	H. C. Hutchinson	620,655	Mar. 7	213	43, 44	86	1543
Pulverizing-machine journal-box	J. C. Clark	639,360	Dec. 19	2181	505	89	2329
Pulverizing machine. Soil-	J. C. Tate	617,613	Jan. 10	1429	326	86	297
Pulverizing-mill	F. G. Johnson	632,721	Sept. 12	985	228, 229	88	1916
Pulverizing-mill. Centrifugal	F. G. Johnson	626,426	June 6	387	91, 92, 93	87	1689
Pulverizing or grinding machine	S. Straker	625,212	May 16	2284	520, 521	87	1181
Pulverulent materials. Binder for	M. W. Marsden	621,579	Mar. 21	1922	------	86	1898
Pump	H. Ashley	619,654	Feb. 14	1565	356	86	1133
Pump	J. M. Berrier	619,534	Feb. 14	1347	310	86	1093
Pump	F. Bowen	618,895	Feb. 7	31	6	86	809
Pump	J. A. Dollar	625,023	May 16	1957	438	87	1120
Pump	F. Edwards	635,531	Oct. 24	2911	665	89	623
Pump	F. G. Gardner	624,642	May 9	1273	284	87	969
Pump	J. W. Hart and B. F. Pancoast	621,964	Mar. 28	2667	600	86	2057
Pump	H. E. Hedge	631,464	Aug. 22	3220	731	88	1408
Pump	Z. Jacomet	622,693	Apr. 11	934	215	87	197
Pump	G. H. Laub	639,065	Dec. 12	1602	368	89	2198
Pump	R Luhn	629,577	July 25	3030	707	88	645
Pump	H S Maxim	629,750	July 25	3339	779	88	705
Pump	J. J. O'Crowley	623,617	Apr. 25	2615	597	87	558
Pump	G. B. Petsche	618,725	Jan. 31	3541	791	86	751
Pump	J. B Poore	632,428	Sept. 5	389	89	88	1783
Pump	A. Richter	618,732	Jan. 31	3553	793	86	753
Pump	W. F Roach	631,324	Aug. 22	2972	672	88	1359
Pump	W. F Smith	639,870	Dec. 26	3103	714	89	2530
Pump	T. J. Sparks	638,890	Dec. 12	1306	297	89	2141
Pump	G. P. Tharp and V. A. Park	622,787	Apr. 11	1081	251	87	224
Pump	H. Walther	619,645	Feb. 14	1554	355	86	1131

Alphabetical list of inventions—Continued.

Invention.	Name.	No.	Date.	Monthly volume.		Official Gazette.	
				Spec.	Dr'g.	Vol.	Page.
Pump	H. Winkel	622,308	Apr. 4	195	43,44	87	36
Pump	C. A. Wright	617,212	Jan. 3	665	154	86	130
Pump. Air and gas	H. A. Fleuss	620,763	Mar. 7	424	87	86	1584
Pump and measure. Combined	H. Schneider	624,550	May 9	1116	251	87	938
Pump and motor. Combined	N. A. Christensen	621,324	Mar. 21	1473	327	86	1813
Pump and motor. Combined	N. A. Christensen	635,280	Oct. 17	2404	560	89	507
Pump and receiver. Automatic	E. M. Coryell	638,960	Dec. 12	1427	326	89	2165
Pump attachment. Beer	A. O. Latimer and W. D. Crenshaw	620,463	Feb. 28	3016	690	86	1450
Pump attachment. Mining	B. Chaloner	619,938	Feb. 21	2101	477	86	1262
Pump. Barrel	J. O. Elliston	621,450	Mar. 21	1687	374	86	1853
Pump. Centrifugal	J. Edwards	619,736	Feb. 21	1738	396	86	1192
Pump. Centrifugal	E. M. Ivens	632,572	Sept. 5	667	154, 155	88	1838
Pump. Centrifugal	F. G. Lundwall	631,469	Aug. 22	3234	734	88	1411
Pump. Centrifugal	G. W. Price	633,732	Sept. 26	2892	672	88	2315
Pump. Centrifugal	F. B. Warring	634,840	Oct. 10	1588	372	89	333
Pump. Combined submerged lifting and force	H. D. B. Williams and C. F. Grueninger.	619,033	Feb. 7	451	95	86	898
Pump. Compressed-air	M. L. Mitchell	629,867	Aug. 1	208	47, 48	88	761
Pump. Compressed-air	P. B. Perkins	640,023	Dec. 26	3379	774, 775	89	2586
Pump. Compressed-air	T. C. Wristen	631,732	Aug. 22	3722	835	88	1506
Pump coupling. Air	H. K. Austin	637,915	Nov. 28	3596	753	89	1738
Pump-curb	C. A. Bartliff	617,219	Jan. 3	679	157	86	132
Pump-curb reservoir	C. A. Bartliff	619,712	Feb. 21	1688	386	86	1182
Pump cut-off. Automatic	C. O. Lange	635,258	Oct. 17	2356	550	89	498
Pump-cylinder	E. J. Feeny	624,917	May 16	1780	401	87	1087
Pump. Deep-mine or relay	G. S. Herbolsheimer	621,667	Mar. 21	2086	466	86	1931
Pump. Double-acting	M. L. Koogler	620,041	Feb. 21	2286	519	86	1297
Pump. Double-acting force	C. E. Newman	627,235	June 20	1875	411	87	2017
Pump. Double-acting submerged	W. D. Hooker	638,926	Dec. 12	1368	312	89	2153
Pump. Electric	C. Eickemeyer	618,404	Jan. 31	2971	658, 659, 660	86	643
Pump engine. Air	W. B. Mann	630,380	Aug. 8	1241	272	88	982
Pump. Filter	H. Nordtmeyer	629,387	July 25	2670	623	88	576
Pump. Foot	J. H. Goss	623,662	Apr. 25	2691	617	87	572
Pump for compressing air	A. Roesch	624,099	May 2	285	59	87	755
Pump for extracting kerosene or other liquids from tins. Hand	W. J. Rawling	618,728	Jan. 31	3545	792	86	752
Pump for pumping molasses, &c	H. E. Asbury and W. Peoples	619,653	Feb. 14	1563	356	86	1133
Pump for vehicles. Automatic	S. M. Van Allen	622,405	Apr. 4	353	82	87	66
Pump. Force	A. E. Whiting	620,392	Feb. 28	2902	665, 666	86	1429
Pump-gear	L. H. Nicolas	617,936	Jan. 17	2061	462	86	442
Pump-governor	T. P. Ford	624,779	May 9	1515	345	87	1018
Pump-governor	B. R. Lewis and J. Schwartz	628,101	July 4	276	65, 66	88	55
Pump-governor	A. Snyder	630,754	Aug. 8	1925	434, 445	88	1110
Pump guide. Rotary	R. J. Northam	633,476	Sept. 19	2401	565	88	2205
Pump guide. Rotary	R. J. Northam	633,477	Sept. 19	2403	565	88	2205
Pump-head	S. Strobridge	628,170	July 4	397	93	88	80
Pump head. Rotary	R. J. Northam	633,475	Sept. 19	2400	564, 565	88	2204
Pump. High-speed	J. Stumpf	632,001	Aug. 29	4205	946, 947	88	1611
Pump. Hydraulic	J. C. Dean	625,291	May 16	2439	555	87	1209
Pump. Hydraulic air	G. J. Habermann	635,478	Oct. 24	2826	644, 645	89	607
Pump. Measuring	A. H Herron	632,568	Sept. 5	661	153	88	1837
Pump. Mercurial air	H. S Maxim	639,593	Dec. 19	2587	594	89	2410
Pump. Oil	L. Skinner	632,949	Sept. 12	1401	324	88	1998
Pump. Oil	C. F W. Manzel	635,694	Oct. 24	3200	738	89	679
Pump-operating attachment	E. B. Fetzer	619,824	Feb. 21	1898	433	86	1223
Pump-operating mechanism. Coin-controlled air	C. C. Clawson	619,279	Feb. 14	915	207, 208	86	1007
Pump or compressor. Air	C. O. Sobinski	630,525	Aug. 8	1540	343, 344	88	1035
Pump or motor. Rotary	J. Grindrod	628,906	July 11	1804	420, 421	88	371
Pump-piston	G. W. Youmans	627,039	June 13	1532	334	87	1929
Pump piston-rod. Steam	P. S Houghton	636,668	Nov. 7	795	176	89	1083
Pump. Pneumatic	W. K. Peters	629,812	Aug. 1	92	22, 23	88	738
Pump. Portable air	A. B. Diss	635,674	Oct. 24	3170	730	89	673
Pump priming device	E. M. Coryell	629,002	July 18	1973	459	88	421
Pump-regulator	A. Bergst	631,149	Aug. 15	2651	600	88	1277
Pump-regulator	J. Boylston	626,217	June 6	9	2	87	1616
Pump regulator. Steam	J. C. Dean	627,771	June 27	2901	634	87	2237
Pump regulator. Steam	W. A. Wood	637,983	Nov. 28	3714	781, 782	89	1760
Pump-rod connection	E. H. Barton	636,616	Nov. 7	686	149	89	1060
Pump-rod-operating device for windmills	W. E. Vernon	624,710	May 9	1396	312	87	994
Pump-rods from wells. Apparatus for drawing	J. E. Garver	618,341	Jan. 24	2819	626	86	598
Pump. Rotary	A. W. and L. W. Case	640,093	Dec. 26	3510	805	89	2613
Pump. Rotary	R. F. Fleak	621,752	Mar. 21	2255	508	86	1964
Pump. Rotary	E. W. G. C. Hoffmann	623,605	Apr. 25	2596	594	87	555
Pump. Rotary	B. Lobee	629,796	Aug. 1	62	16	88	733
Pump. Rotary	R. J. Northam	633,474	Sept. 19	2399	564	88	2204
Pump. Rotary	W. E. Penn	628,989	July 18	1948	453, 454	88	416
Pump. Rotary	W. P. Pitt	621,280	Mar. 14	1386	307	86	1783
Pump. Rotary	A. Rock	630,932	Aug. 15	2244	512	88	1199
Pump. Rotary	A. G. Snyder	638,853	Dec. 12	1242	280	89	2128
Pump. Rotary	B. F. Taber	630,013	Aug. 1	539	119	88	880
Pump. Rotary	A. Thomson	619,368	Feb. 14	1061	238	86	1037
Pump. Rotary	C. F. Thurber	630,426	Aug. 8	1357	303	88	1001

Alphabetical list of inventions—Continued.

Invention.	Name.	No.	Date.	Monthly volume.		Official Gazette.	
				Spec.	Dr'g.	Vol.	Page.
Pump. Spray-	I. W. Numan	637,213	Nov. 14	1914	410	89	1328
Pump. Steam-	P. Ludwig	630,812	Aug. 8	2031	458, 459	88	1133
Pump. Steam vacuum-	W. R. Emerson	628,432	July 4	895	210	88	172
Pump support. Portable-hand-	J. Rieg	617,358	Jan. 10	955	220	86	206
Pump. Triple-piston deep-well	W. C. Woodward	627,315	June 20	2034	446, 447, 448	87	2050
Pump. Vacuum-	E. F. Dwyer	635,375	Oct. 24	2579	599	89	558
Pump-valve	C. D. Sanderson and B. E. Banfield	620,676	Mar. 7	247	51	86	1550
Pump-valve-actuating mechanism. Steam-	J. K. Dean	626,652	June 6	782	178	87	1766
Pump valve and cylinder	A. Starke	617,912	Jan. 17	2026	453	86	433
Pump valve mechanism	T. J. Barbour	637,759	Nov. 28	3301	689	89	1675
Pump-valve. Safety suction	C. S. Booth	627,454	June 20	2315	510	87	2104
Pump-valve stem	P. S. Houghton	636,145	Oct. 31	4111	941	89	871
Pump. Windmill-regulating	G. P. Bump	621,789	Mar. 28	2324	522	86	1992
Pumps. Equalizer for windmill-operated	J. Willmann	617,496	Jan. 10	1204	274	86	254
Pumps. Mechanism for operating bilge-	F. Stuth	630,130	Aug. 1	753	162	88	872
Pumps. Steam-actuated valve for	J. McCulloch	629,386	July 25	2668	621, 622	88	575
Pumping and measuring apparatus for oil, &c	G. Hollan	617,019	Jan. 3	299	66	86	60
Pumping apparatus	W. B. Mason	617,934	Jan. 17	2056	461	86	441
Pumping apparatus	S. V. Rehart	635,390	Oct. 24	2630	607	89	568
Pumping apparatus. Deep-well	W. A. Springer	618,623	Jan. 31	3354	746	86	714
Pumping apparatus. Duplex direct-acting	P. F. Oddie	624,854	May 9	1667	377	87	1047
Pumping apparatus for deep wells	W. C. Moore and W. C. Elder	624,364	May 2	759	171	87	845
Pumping apparatus for oil-wells	J. H. Cook	631,776	Aug. 29	3817	850	88	1535
Pumping apparatus. Liquid-	E. Tatham	632,663	Sept. 5	839	196	88	1875
Pumping apparatus. Oil-well	J. Sheridan	625,424	May 23	2679	610	87	1282
Pumping apparatus. Rotary reciprocating	V. E. Emgarth	630,977	Aug. 15	2343	534	88	1217
Pumping apparatus. Wave-power	J. E. and W. Armstrong	626,452	June 6	437	103	87	1698
Pumping-engine	D. A. Decrow	620,644	Mar. 7	191	39, 40	86	1539
Pumping-engine	J. C. Smith	628,419	July 4	873	205, 206	88	168
Pumping-engine. Duplex	H. L. Perrine	639,282	Dec. 19	2005	462	89	2293
Pumping-engine. Duplex steam-	H. L. Perrine	639,283	Dec. 19	2007	463	89	2293
Pumping-engine. Single-expansion plunger	A. H. Reeder	625,900	May 30	3551	806	87	1469
Pumping-jack gearing	W. C. Woodward	634,194	Oct. 3	385	98	89	79
Pumping oil-wells. Device for	G. H. Purdy	617,770	Jan. 17	1728	388	86	375
Pumping oil-wells. Power mechanism for	C. E. Sutton	627,604	June 27	2613	574, 575	87	2179
Pumping-rig. Oil-well	E. D. Yates	635,630	Oct. 24	3094	710	89	659
Punch	J. L. Baltzer	618,022	Jan. 17	2206	492	86	469
Punch and shear machine	C. F. Thurber	631,137	Aug. 15	2628	595	88	1273
Punch and shears	L. Van Dorin	617,619	Jan. 10	1437	328	86	299
Punch. Canceling-	E. H. Murdock	633,210	Sept. 19	1901	448	88	2109
Punch. Compound	T. G. Bennett	627,289	June 20	1973	434	87	2037
Punch. Conductor's recording-	J. A. Jones	622,236	Apr. 4	64	15, 16	87	16
Punch gag. Metal-	G. B. Tennant	627,153	June 20	1735	381	87	1989
Punch-making machine	A. J. Bradley	623,687	July 11	1408	327	88	292
Punch. Metal-	J. Gogley	629,558	July 25	2990	699	88	638
Punches and dies. Manufacture of	E. E. Claussen	623,595	Apr. 25	2582	591	87	553
Punching and riveting machine	J. L. Kinsell	630,359	Aug. 8	1190	262	88	973
Punching and shearing machine. Combined	A. Schärfl	625,420	May 23	2674	609	87	1281
Punching, cutting, shearing, &c. Machine for	J. Keim	621,097	Mar. 14	1059	231	86	1718
Punching-die	T. Corscaden	629,429	July 25	2743	638	88	590
Punching holes in girders, &c. Apparatus for	H. John	622,953	Apr. 11	1384	318	87	282
Punching-machine	T. B. Blair	626,362	June 6	284	65	87	1669
Punching-machine	P. F. Greenwood	618,866	Feb. 7	92	19	86	822
Punching-machine	W. A. Langjahr	629,862	Aug. 1	198	45	88	759
Punching-machine attachment. Metal-	L. Williams	627,033	June 13	1520	331	87	1927
Punching-press	O. Mergenthaler	636,913	Nov. 14	1314	282	89	1214
Punching-register	C. Berst	633,982	Oct. 3	3	1	89	3
Puncture-closing compound	C. W. Gabe	636,329	Nov. 7	171	------	89	955
Purflings, &c. Machine for making	H. Dahlman	617,283	Jan. 3	802	187	86	158
Purifier and roller-mill feeding-machine	F. C. Koke	625,037	May 16	1981	442	87	1125
Purin and making same. Thio derivative of	E. Fischer	625,441	May 23	2710	------	87	1288
Purse or bag frame	B. vom Eigen	625,028	May 16	1967	440	87	1122
Purse or bag frame	A. F. Fuller	621,452	Mar. 21	1690	375	86	1853
Purse or bag frame	J. Kleinstuber	618,686	Jan. 31	3473	776	86	738
Push-button	P. C. Howe	638,680	Dec. 5	942	210	89	2051
Push-button	A. C. Meier	635,172	Oct. 17	2210	515	89	471
Push-button and fire-alarm. Combination	W. A. Guthrie and J. B. Underwood	634,940	Oct. 17	1756	417	89	382
Push-button cut-out. Electric	J. I. Gunther	631,633	Aug. 22	3538	797	88	1472
Push-button. Electric	L. F. Johnson	631,892	Aug. 29	4005	896	88	1572
Push-rod	B. Haskell	617,484	Jan. 10	1190	271	86	251
Puzzle	R. J. Alpe	632,982	Sept. 12	1452	337	88	2007
Puzzle	W. J. Barrett	624,158	May 2	408	83	87	778
Puzzle	C. R. Bennett	638,437	Dec. 5	481	98	89	1959
Puzzle	H. A. Bowers	618,326	Jan. 24	2795	620	86	594
Puzzle	H. A. Bowers	636,109	Oct. 31	4046	926	89	858
Puzzle	C. H. Bowie	632,890	Sept. 12	1310	300	88	1979
Puzzle	L. Compton and H. M. Houck	631,737	Aug. 22	3730	837	88	1508
Puzzle	J. S. Hanson	618,871	Feb. 7	101	21	86	824
Puzzle	J. A. Harvey	622,354	Apr. 4	269	61	87	52
Puzzle	W. Hazell	638,391	Dec. 5	392	82	89	1941
Puzzle	H. W. Hines	622,468	Apr. 4	489	115	87	91
Puzzle	W. F. Homman	635,251	Oct. 17	2343	547	89	496
Puzzle	A. H. Kopetschny	637,804	Nov. 28	3373	707	89	1691
Puzzle	A. E. Libby	635,329	Oct. 24	2492	579	89	541
Puzzle	R. S. Mayhew	627,127	June 20	1693	371	87	1980
Puzzle	D. McGenniss	639,602	Dec. 19	2602	598	89	2413
Puzzle	J. J. O'Brien	633,034	Sept. 12	1549	360	88	2026
Puzzle	N. J. Reynolds	628,117	July 4	303	71	88	60
Puzzle	C. J. Schug	637,352	Nov. 21	2192	473	89	1399
Puzzle	A. and A. A. Shepherd	629,527	July 25	2948	686	88	630

Alphabetical list of inventions—Continued.

Invention.	Name.	No.	Date.	Monthly volume. Spec.	Monthly volume. Dr'g.	Official Gazette. Vol.	Official Gazette. Page.
Puzzle	F. Skalla	621,506	Mar. 21	1793	399	86	1873
Puzzle	F. R. Skinner	639,868	Dec. 26	3101	713	89	2529
Puzzle	A. L. Smith	636,576	Nov. 7	615	135	89	1046
Puzzle	J. W. Sturges	617,060	Jan. 3	392	95	86	76
Puzzle	O. Svanström	619,804	Feb. 21	1874	427	86	1218
Puzzle	F. A. Worden	617,549	Jan. 10	1311	295	86	275
Puzzle-box	H. P. King	627,507	June 27	2413	530	87	2139
Puzzle or toy. Marine	J. F. Butz	628,520	July 11	1079	251, 252	88	227
Puzzle. Playing-card	M. Johnson	618,942	Feb. 7	268	57	86	862
Pyrometer	H. von Koehring	637,343	Nov. 21	2174	468	89	1395
Pyrometer. Pneumatic	E. A. Uehling and A. Steinbart	639,317	Dec. 19	2075	476, 477	89	2307
Pyrotechnic signal	H. J. Pain	617,539	Jan. 10	1291	292	86	271
Pyrotechnic signal	H. J. Pain	624,530	May 9	1078	242	87	931
Pyroxylin composition	J. H. Stevens	617,450	Jan. 10	1137		86	239
Pyroxylin composition	J. H. Stevens	626,732	June 13	942		87	1815
Pyroxylin composition of matter. Transparent	J. H. Stevens	622,292	Apr. 4	170		87	34
Pyroxylin composition of matter. Transparent flowable	J. H. Stevens	630,944	Aug. 15	2268		88	1203
Pyroxylin composition. Transparent flowable	J. H. Stevens	630,945	Aug. 15	2272		88	1204
Pyroxylin compound	J. H. Stevens	621,382	Mar. 21	1567		86	1830
Pyroxylin imitation of mosaic and manufacturing same.	J. R. France	619,037	Feb. 7	457	96	86	899
Pyroxylin plastic composition. Transparent	J. H. Stevens	621,433	Mar. 21	1645		86	1846
Pyroxylin plastic composition. Transparent	J. H. Stevens	621,434	Mar. 21	1649		86	1846
Pyroxylin plastic composition. Transparent	J. H. Stevens	622,290	Apr. 4	163		87	33
Pyroxylin plastic composition. Transparent	J. H. Stevens	622,291	Apr. 4	167		87	34
Pyroxylin plastic composition. Transparent	J. H. Stevens	622,293	Apr. 4	172		87	34
Pyroxylin plastic composition. Transparent	J. H. Stevens	622,294	Apr. 4	177		87	34
Quartz-mill	N. McAulay	626,079	May 30	3932	893	87	1540
Quilling-machine	R. Atherton	631,552	Aug. 22	3399	769	88	1444
Quilling-machine	R. Atherton	632,003	Aug. 29	4210	947	88	1612
Quilting-frame	W. H. Crawford	631,419	Aug. 22	3141	713	88	1393
Quilting-frame	W. M. Phillips	626,928	June 13	1342	295	87	1892
Quilting-frame	L. D. Shinn	625,854	May 30	3462	785	87	1453
Quinin and caffein. Making a soluble preparation of	A. Kreidmann	625,886	May 30	3527		87	1466
Quinin compound	E. W. Grove	633,448	Sept. 19	2359		88	2196
Quinin compound. Tasteless	A. Weller	637,839	Nov. 28	3446		89	1707
Quinin powder and making same. Tasteless	E. W. Grove	631,632	Aug. 22	3538		88	1472
Rabbeting-machine for oval hand-holes	C. P. Higgins	638,712	Dec. 12	1000	223, 224	89	2081
Racing-records. Apparatus for making	W. E. Barber	621,314	Mar. 21	1457	322, 323	86	1809
Racing trolley-track	C. W. Hutchinson	638,720	Dec. 12	1014	228	89	2084
Rack: *See* Bicycle-rack. Bottling-rack. Chip-rack. Clothes-rack. Coat and hat rack. Cycle-rack. Display-rack. Draining-rack. Drying-rack. Filing-rack. Hat and clothes rack. Hat, coat, and umbrella rack. Hay-rack. Hay and stock rack. Hay or grain rack. Hay or stock rack. Horseshoeing-rack. Laundry-rack. Meat-rack. Milk-rack. Music-rack. Negative-rack. Note-disk rack. Pen-rack. Pie-rack. Shoe-rack. Show-rack. Stamp-rack. Stock and hay rack. Stock or poultry rack. Stove-rack. Towel-rack. Trousers-rack. Vehicle-rack. Wagon-rack.							
Rack	J. A. McNeill	638,263	Dec. 5	112	26	89	1887
Rack	C. E. Perry	634,908	Oct. 17	1708	403	89	372
Rack for penholders, &c	J. Adair	635,281	Oct. 24	2413	562	89	527
Rack for penholders, &c	J. Adair	635,282	Oct. 24	2414	562	89	527
Rack for penholders, &c	J. Adair	635,283	Oct. 24	2416	563	89	527
Rack for penholders, &c	J. Adair	635,284	Oct. 24	2417	563	89	528
Rack for table articles	J. T. Thornley	620,811	Mar. 7	511	109	86	1602
Racking apparatus. Barrel or cask	J. J. Marshall	629,517	July 25	2932	682, 683	88	626
Racking apparatus. Beer-	H. W. Colby	623,986	May 2	56	13	87	712
Racking apparatus. Beer-	O. Zwietusch	623,758	Apr. 25	2839	651	87	601
Radiator	J. W. Lang	623,609	Apr. 25	2602	594	87	556
Radiator	N. Mainz and G. J. Zeller	621,114	Mar. 14	1092	237, 238	86	1724
Radiator. Heat-	M. M. Brophy	628,689	July 11	1420	330	88	295
Radiator. Heating and ventilating	J. J. Lawler	635,861	Oct. 31	3541	814	89	758
Radiator or drum. Heat	J. C. Byram	633,501	Sept. 19	2440	575	88	2212
Radiator. Steam and hot-water	F. J. Travers and C. H. Smith	632,974	Sept. 12	1441	334	88	2005
Radiator. Steam or hot-water	C. F. Walther	629,223	July 18	2363	549	88	495
Radiator. Wrought-metal	F. A. Wilmot	634,317	Oct. 3	659	160	89	133
Radiator. Wrought-metal	F. A. Wilmot	634,318	Oct. 3	661	160	89	133
Radiographic apparatus	S. W. Puffer	630,406	Aug. 8	1312	292	88	992
Rag-dusting machine	A. A. Wheat	630,307	Aug. 1	1072	234	88	933
Rag-engine	E. Partington	622,973	Apr. 11	1418	326, 327	87	290
Rags. Apparatus for disintegrating and washing	J. H. Annandale	625,311	May 23	2482	563	87	1244
Rail	J. Fink	624,471	May 9	967	215	87	910
Rail	W. T. Manning	621,117	Mar. 14	1097	239	86	1725
Rail and railway-curve	H. M. Williams	638,827	Dec. 12	1194	267	89	2119
Rail and tie plate	J. F. Dionne and J. A. Guy	617,234	Jan. 3	711	165	86	139

Alphabetical list of inventions—Continued.

Invention.	Name.	No.	Date.	Monthly volume. Spec.	Monthly volume. Drg.	Official Gazette. Vol.	Official Gazette. Page.
Rail, bar, or pipe bender	M. H. Brown	630,484	Aug. 8	1460	327	88	1021
Rail-bond	J. E. Lenhult	634,559	Oct. 10	1109	263	89	239
Rail-bond. Electric	S. H. Harrington	626,377	June 6	315	72	87	1675
Rail-bond. Electric	S. H. Harrington	626,378	June 6	316	73	87	1675
Rail-brace. Safety	J. A. McCann	626,080	May 30	3934	893	87	1541
Rail-breaking machine	G. W. Baumhoff and O. Schmid	629,417	July 25	2722	632, 633	88	586
Rail-chair	W. E. Ludlow	621,261	Mar. 14	1347	299	86	1775
Rail-chair	F. H. Rapley	638,760	Dec. 12	1084	242	89	2099
Rail chair. Guard-	D. Crane	621,490	Mar. 21	1761	393	86	1867
Rail clamp. Guard-	J. E. Smith and J. J. Thomas	623,574	Apr. 25	2541	584	87	545
Rail construction. Continuous-	E. V. Chamberlin	620,696	Mar. 7	292	59	86	1558
Rail-fastener	W. Graham	620,912	Mar. 14	698	153	86	1650
Rail-fastening	R. A. White	623,932	Apr. 25	3206	738, 739	87	672
Rail fastening and joint	A. Schmidt	632,282	Sept. 5	146	33	88	1736
Rail for electric roads. Trolley-	W. A. P. Willard, Jr	630,153	Aug. 1	799	172, 173	88	880
Rail frog. Swing-	M. Buchanan	637,229	Nov. 21	1952	416	89	1351
Rail-joint	J. Baker	622,033	Mar. 28	2787	628	86	2082
Rail-joint	G. L. Baxter	632,625	Sept. 5	746	171	88	1854
Rail-joint	F. F. Bray	621,956	Mar. 28	2645	595	86	2053
Rail-joint	P. Brown	630,444	Aug. 8	1384	310	88	1006
Rail-joint	J. Cunningham	631,248	Aug. 15	2829	638	88	1314
Rail-joint	T. C. Du Pont	633,731	Sept. 26	2890	672	88	2315
Rail-joint	A. J. Dumas	631,459	Aug. 22	3213	730	88	1407
Rail-joint	C. P. Goetzinger	629,009	July 18	1984	462	88	423
Rail-joint	A. W. Griffith	633,133	Sept. 19	1758	414	88	2079
Rail-joint	A. Hoffmann	617,744	Jan. 17	1675	377, 378	86	366
Rail-joint	S. S. King	639,060	Dec. 12	1595	366	89	2197
Rail-joint	W. H. Mills	633,288	Sept. 19	2054	482	88	2138
Rail-joint	F. N. Plomondon	639,183	Dec. 12	1805	418	89	2238
Rail-joint	R. Price-Williams	629,919	Aug. 1	340	75	88	788
Rail-joint	J. G. Schreuder	629,926	Aug. 1	348	77	88	790
Rail-joint	H. F. Smith	638,290	Dec. 5	198	42	89	1904
Rail-joint	J. E. Smith	628,555	July 11	1142	266	88	240
Rail-joint	A. Tremblay	633,926	Sept. 26	3211	748	88	2379
Rail-joint	J. Wayland	627,247	June 20	1897	418	87	2021
Rail-joint	G. A. Weber	634,924	Oct. 17	1735	411, 412	89	377
Rail-joint	J. C. Wiggins	632,300	Sept. 5	178	40	88	1742
Rail-joint	H. M. Williams	631,353	Aug. 22	3016	684	88	1368
Rail-joint and forming same	A. C. Heidelberg	620,071	Feb. 21	2335	530	86	1206
Rail-joint and metallic cross-tie. Combined	J. Kline	629,860	Aug. 1	195	45	88	759
Rail-joint closure	H. C. Quesenberry	637,827	Nov. 28	3424	716	89	1702
Rail-joint. Expanding	W. Sandford, W. Thornley, and E. Silcocks.	624,983	May 16	1898	426	87	1110
Rail-joint fastening	E. L. Arnold	626,358	June 6	277	63	87	1667
Rail-joint fastening	M. Betka	623,508	Apr. 25	2414	553	87	521
Rail-joint nut-lock	J. M. Kinsey and F. P. W. Young	617,579	Jan. 10	1373	311	86	286
Rail-joint sleeper-support	H. Hansen	618,381	Jan. 24	2899	643	86	613
Rail-joints. Forming	A. C. Heidelberg	620,072	Feb. 21	2338	530	86	1307
Rail-securing tie or sleeper for permanent ways	G Weise	628,376	July 4	801	186	88	154
Rail-tie	J. F. Myser	620,953	Mar. 14	775	170	86	1665
Rail-tie fastener	G. B. Kline	636,003	Oct. 31	3822	879	89	813
Rails, &c. Apparatus for clamping and holding	C. B. Voynow	629,053	July 18	2060	480	88	439
Rails. Process of and machine for renewing steel	E. W. McKenna	635,577	Oct. 24	2993	687	89	638
Rails. Rerolling	J. E. York	629,413	July 25	2718	631	88	585
Rails under moving trains. Instrument for testing	P. H. Dudley	628,928	July 18	1842	428	88	396
Railway	C. D. Bennett	635,526	Oct. 24	2905	663	89	622
Railway	E. M. Boynton	624,427	May 2	876	197, 198	87	870
Railway	T. J. King and A. O. Babendreier	623,248	Apr. 18	1943	445	87	407
Railway	T. J. King and A. O. Babendreier	623,249	Apr. 18	1946	445, 446	87	408
Railway	T. J. King and A. O. Babendreier	623,250	Apr. 18	1949	446	87	408
Railway	T. J. King and A. O. Babendreier	629,568	July 25	3004	701	88	640
Railway. Aerial	J. Bond	619,536	Feb. 14	1349	310	86	1093
Railway. Aerial	M. Brochet	637,703	Nov. 21	3199	664, 665	89	1637
Railway and car or carriage therefor. Suspension-	C. von Thal and R. Weiss	640,050	Dec. 26	3433	789	89	2597
Railway angle-bar	O. Sullivan	637,180	Nov. 14	1844	395	89	1314
Railway-brake actuating apparatus	A. Kholodkowsky	628,944	July 18	1871	433, 434	88	401
Railway-brake. Continuous	E. M. L. Duval	626,004	May 30	3787	862	87	1515
Railway bumping-post	B. Haskell	618,460	Jan. 31	3065	678, 679	86	659
Railway-carriage coupling	K. Zwart	626,263	June 6	76	19	87	1629
Railway cattle-guard	S. Abernathy	635,413	Oct. 24	2701	618	89	582
Railway cattle-guard	T. A. England	620,901	Mar. 14	675	147	86	1647
Railway cattle-guard	W. Newell and F. M. Sullivan	617,347	Jan. 10	933	216	86	202
Railway-chronograph	H. G. Sedgwick	623,569	Apr. 25	2531	582	87	544
Railway-chronograph	H. G. Sedgwick	624,385	May 2	804	180	87	854
Railway circuit-closer. Electric-	G. H. McFeaters	618,179	Jan. 24	2547	563	86	546
Railway-coaches. Device for preventing derailment of	A. C. Nicolas	618,283	Jan. 24	2718	603, 604	86	578
Railway-coaches. Dust and cinder guard for	J. S. McKenzie	639,426	Dec. 19	2294	530	89	2350
Railway. Conduit-	M. D. Law	634,623	Oct. 10	1210	287	89	257
Railway-conduit	F. S. Pearson	619,783	Feb. 21	1827	417	86	1210
Railway. Conduit electric	R. W. Barkley	617,708	Jan. 17	1609	362	86	351
Railway contact-box. Electric-	W. M. Brown	627,476	June 27	2357	519	87	2129
Railway controlling mechanism. Electric-	S. H. Short	630,938	Aug. 15	2258	515, 516	88	1202
Railway-coupling. Automatic	S. Bändel	619,931	Feb. 21	2089	475	86	1260

Alphabetical list of inventions—Continued.

Invention.	Name.	No.	Date.	Monthly volume.		Official Gazette.	
				Spec.	Dr'g.	Vol.	Page.
Railway cross-sleepers. Templet for drilling wooden	L. Gross	627,112	June 20	1666	363	87	1975
Railway cross-tie	O. M. Knox	638,054	Nov. 28	3853	810	89	1787
Railway cross-tie. Metallic	A. Bidwell	624,892	May 9	1732	391	87	1059
Railway-crossing	J. C. Easley	618,790	Jan. 31	3646	814, 815	86	773
Railway-crossing	H. Elliot	632,992	Sept. 12	1471	342	88	2012
Railway-crossing	R. H. Elliott	620,758	Mar. 7	416	85, 86	86	1582
Railway-crossing	E. H. Hiner	618,351	Jan. 24	2836	630	86	601
Railway-crossing	G. P. Keith	637,618	Nov. 21	3043	628	89	1605
Railway-crossing	H. B. Nichols	631,808	Aug. 29	3869	863	88	1545
Railway-crossing	J. S. Perry	630,519	Aug. 8	1526	341	88	1033
Railway-crossing	D. Scott	630,748	Aug. 8	1916	432	88	1109
Railway-crossing	P. Vogle	617,974	Jan. 17	2119	475	86	453
Railway-crossing alarm. Electrically-operated	J. E. Steele	631,134	Aug. 15	2624	594	88	1272
Railway-crossing gate	A. D. Turner and F. C. von Heydebrand und der Lasa.	636,220	Oct. 31	4245	975, 976	89	897
Railway-crossing gate	L. W. Weed	632,976	Sept. 12	1444	335	88	2006
Railway-crossing signal	M. Riley	633,907	Sept. 26	3185	741	88	2374
Railway-crossings. Automatic electric signal for	U. J. Fry	619,038	Feb. 7	458	96	86	899
Railway-crossings. Electric alarm-signal for	W. H. Danalds and A. E. Flickinger	626,978	June 13	1423	314	87	1909
Railway-crossings. System of automatically-operated safety devices for	F. H. Rice	639,092	Dec. 12	1653	382, 383	89	2207
Railway-curve sweeper and oiler. Street-	G. Huff	617,420	Jan. 10	1086	248	86	231
Railway. Cycle-	W. Shakespeare	639,778	Dec. 26	2950	679	89	2500
Railway-detector-bar support	H. F. Clark	624,626	May 9	1247	279	87	964
Railway. Electric	L. M. Aspinwall	620,404	Feb. 28	2921	669	86	1432
Railway. Electric	R. W. Barkley	633,558	Sept. 26	2547	398, 399	88	2247
Railway. Electric	W. M. Brown	627,475	June 27	2356	519	87	2128
Railway. Electric	W. M. Brown	627,477	June 27	2359	519	87	2129
Railway. Electric	H. B. Cox	624,304	May 2	666	146	87	827
Railway. Electric	J. B. Entz	619,287	Feb. 14	935	212	86	1011
Railway. Electric	W. J. George	621,492	Mar. 21	1763	394	86	1867
Railway. Electric	L. D. Howard	635,252	Oct. 17	2345	547, 548	89	496
Railway. Electric	R. M. Hunter	620,654	Mar. 7	210	43	86	1542
Railway. Electric	R. M. Hunter	625,168	May 16	2214	502	87	1167
Railway. Electric	R. M. Hunter	637,119	Nov. 14	1726	371	89	1292
Railway. Electric	R. Lundell	625,512	May 23	2330	644	87	1311
Railway. Electric	G. W. McClintock	640,146	Dec. 26	3605	828, 829	89	2632
Railway. Electric	J. F. Munsie	618,429	Jan. 31	3020	669	86	651
Railway. Electric	J. F. Munsie	620,549	Feb. 28	3184	729	86	1483
Railway. Electric	J. F. Munsie	620,852	Mar. 7	587	127	86	1618
Railway. Electric	J. M. Murphy	639,860	Dec. 26	3092	711	89	2528
Railway. Electric	H. C. Reagan, Jr	621,848	Mar. 28	2434	543	86	2013
Railway. Electric	C. Russell and A. C. Welchaus	629,211	July 18	2348	545	88	493
Railway. Electric	C. F. P. Stendebach	633,166	Sept. 19	1824	429	88	2092
Railway. Electric	E. Warwick	638,155	Nov. 28	4064	857	89	1826
Railway. Electric	W. R. and F. S. Woodward	620,009	Feb. 21	2222	505	86	1285
Railway. Electric	W. H. Wright	636,937	Nov. 14	1368	291, 292	89	1223
Railway electric block system	H. Baluss, Jr	617,139	Jan. 3	539	128	86	106
Railway electric block system	G. Knowles	626,835	June 13	1151	256	87	1854
Railway. Electric overhead	J. B. Verroken	622,736	Apr. 11	996	231	87	209
Railway. Elevated	F. P. Dinkelberg	634,807	Oct. 10	1526	358, 359	89	320
Railway. Elevated	H. Knudsen	637,005	Nov. 14	1500	323	89	1250
Railway. Elevated	J. I. Newburg	633,145	Sept. 19	1784	420	88	2084
Railway explosive signaling apparatus	W. R. Sykes	637,678	Nov. 21	3158	655	89	1629
Railway fish-plate fastening	J. W. Mercer	632,734	Sept. 12	1003	233	88	1919
Railway-flag	A. H. Handlan, Jr	633,450	Sept. 19	2365	557	88	2198
Railway for recreation	W. Stenning	639,787	Dec. 26	2966	682	89	2503
Railway-frog	G. B. Donnelly	631,420	Aug. 22	3143	713	88	1393
Railway-frog	B. Habermehl	618,342	Jan. 24	2821	626	86	598
Railway-frog	L. C. Kelley and E. L. Reich	627,123	June 20	1687	369, 370	87	1979
Railway-frog	C. F. Kress, Jr	639,251	Dec. 19	1954	450	89	2282
Railway-frog	J. E. Robinson	633,158	Sept. 19	1813	426	88	2090
Railway-frog	P. G. Stormer	627,543	June 27	2486	546	87	2154
Railway-frog	A. Van Brunt	634,780	Oct. 10	1480	349	89	311
Railway-gate	L. Carrier and E. Z. Clow	625,740	May 30	3234	734	87	1409
Railway-gate	E. Erickson	636,509	Nov. 7	488	109	89	1020
Railway-gate	H. J. O'Brien and A. E. McKay	621,699	Mar. 21	2144	477	86	1943
Railway-gate	R. J. Tatham	637,836	Nov. 28	3442	719	89	1706
Railway-gate. Automatic	J. Jackson	620,656	Mar. 7	214	44	86	1544
Railway-gate. Automatic	F. H. Rice	639,093	Dec. 12	1660	383, 384, 385	89	2209
Railway-gate. Electric	T. O. Cooper	628,393	July 4	828	193, 194	88	158
Railway-head	C. Mills and L. W. Penney	638,976	Dec. 12	1456	332, 333	89	2171
Railway-head	C. Mills and L. W. Penney	638,977	Dec. 12	1459	333, 334	89	2171
Railway-indicator	M. Morrow	626,467	June 6	460	108	87	1703
Railway-jack	J. W. Spencer and E. R. Layfield	622,557	Apr. 4	675	157	87	128
Railway-joint	O. Miller	625,455	May 23	2734	622	87	1292
Railway-joint	C. Smith	639,453	Dec. 19	2348	541	89	2361
Railway leveling apparatus	L. Howard	619,751	Feb. 21	1756	402	86	1195
Railway-motor	E. D. Priest	625,802	May 30	3367	764, 765	87	1434
Railway or tramway. Electric	J. J. Heilmann	622,466	Apr. 4	486	114	87	90
Railway or tramway. Elevated or girder	G. Barker	639,498	Dec. 19	2418	558	89	2375
Railway permanent way	P. Hevner	625,675	May 23	3104	706	87	1365

Alphabetical list of inventions—Continued.

Invention.	Name.	No.	Date.	Monthly volume. Spec.	Monthly volume. Dr'g.	Official Gazette. Vol.	Official Gazette. Page.
Railway. Pleasure-	H. Funk	637,775	Nov. 28	3328	696	89	1681
Railway. Pleasure-	T. D. Holcomb	620,321	Feb. 28	2788	637	86	1407
Railway-rail	A. D. Gates	636,789	Nov. 14	1077	230	89	1166
Railway-rail	D. Minthorn	627,435	June 26	2281	503	87	2098
Railway-rail bond	H. L. Des Anges	620,865	Mar. 7	613	134	86	1623
Railway rail-bond. Electric-	F. H. Daniels	626,979	June 13	1426	314	87	1909
Railway rail-bond. Electric-	F. H. Daniels	626,980	June 13	1427	314	87	1909
Railway rail-bond. Electric-	F. H. Daniels	632,252	Sept. 5	77	17	88	1722
Railway rail-bond. Electric-	T. J. McTighe	633,887	Sept. 26	3149	731	88	2367
Railway rail-bonds. Manufacture of electric-	T. J. McTighe	633,886	Sept. 26	3148	731	88	2367
Railway-rail chair	B. J. Gillies	627,058	June 13	1568	343	87	1936
Railway-rail chair	W. F. Gould	638,330	Dec. 5	268	55	89	1917
Railway-rail expansion-joint	W. J. Austin	636,233	Nov. 7	2	1	89	925
Railway-rail. Inset	C. M. Dissosway	619,013	Feb. 7	417	87	86	891
Railway-rail joint	N. M. Cornell	635,918	Oct. 31	3653	842	89	780
Railway-rail joint	T. Donahue	629,314	July 18	2529	588	88	527
Railway-rail joint	F. T. Fearey	637,723	Nov. 21	3229	672	89	1642
Railway-rail joint	P. Hevner	625,676	May 23	3106	706	87	1366
Railway-rail joint	N. McCarty and G. D. Claflin, Jr	636,278	Nov. 7	98	22	89	942
Railway-rail joint	E. Robinson	628,416	July 4	868	203, 204	88	167
Railway-rail-rolling machine	D. H. Lentz and H. C. Shaw	625,403	May 23	2639	599, 600	87	1275
Railway-rail rest-plate	A. W. Griffith	633,132	Sept. 19	1757	414	88	2079
Railway-rail splicer	E. J. Schindehütte	632,023	Aug. 29	4249	955	88	1619
Railway rails. Constructing and bonding electric-	S. H. Harrington	620,031	Feb. 21	2270	514	86	1294
Railway-rails. Means for bonding	F. Hachmann	617,737	Jan. 17	1663	375	86	363
Railway-rails. Method of and device for connecting	C. K. Freer	622,946	Apr. 11	1373	315	87	280
Railway-rails of differential size. Joining	A. A. Strom	617,059	Jan. 3	391	95	86	76
Railway-rails. Roll for mitering ends of	A. D. Gates	636,790	Nov. 14	1079	230, 231	89	1166
Railway replacing-frog	B. E Tilden	632,477	Sept. 5	488	111	88	1803
Railway road-bed	G. F. Greenwood	621,657	Mar. 21	2060	460	86	1926
Railway rolling-stock	D. McCool	635,799	Oct. 31	3418	787, 788	89	734
Railway rolling-stock. Double-action coupling attachment for	J. Purser	617,446	Jan. 10	1128	258	86	238
Railway rolling-stock. Means for altering gages of	L. Pearce	617,180	Jan. 3	608	142, 143	86	119
Railway safety appliance. Electric-	M. Hoopes	628,177	July 4	414	98	88	84
Railway safety-gate	P. Madison	638,667	Dec. 5	892	196, 197	89	2039
Railway-signal	W. S. Boult	634,388	Oct. 3	791	189, 190	89	157
Railway-signal	H. R. Dore	633,717	Sept. 26	2868	666, 667	88	2310
Railway-signal	J. W. Jones	617,507	Jan. 10	1222	278	86	258
Railway-signal	J. Jorgenson	623,671	Apr. 25	2706	620	87	576
Railway-signal	J. Jorgenson	623,672	Apr. 25	2707	621	87	576
Railway-signal	J Kasmeier	626,704	June 13	895	203	87	1806
Railway-signal	W. F. Kuhlman	631,724	Aug. 22	3713	833	88	1505
Railway-signal	U. C. Oblosser	633,892	Sept. 26	3154	732, 733	88	2368
Railway-signal	J. Sargent	634,187	Oct. 3	375	96	89	77
Railway-signal	H. B. Taylor	627,243	June 20	1886	414	87	2019
Railway-signal	H. B. Taylor	638,607	Dec. 5	792	171	89	2018
Railway-signal	J. Wayland	627,245	June 20	1892	416	87	2020
Railway-signal. Automatic	J. M. Williams, T. P. and H. W. Kinney.	636,604	Nov. 7	655	144, 145	89	1055
Railway-signal. Electric	T. H. Patenall	634,023	Oct. 3	72	19,20	89	19
Railway-signal. Electrical	J. Shoecraft	633,494	Sept. 19	2430	572	88	2210
Railway-signal. Electrically controlled and operated	W. Daves	625,875	May 30	3508	796, 797, 798	87	1461
Railway signal-fusee	H. M. Warner	617,376	Jan. 10	996	229	86	213
Railway signal system	F. C. Esmond	617,325	Jan. 10	882	206, 207	86	191
Railway signal system	C. Hansel and P. Freeman	619,406	Feb. 14	1130	255, 256	86	1050
Railway signal system	T. B. Keeler	619,890	Feb. 21	2027	460	86	1248
Railway-signals. Time-valve for pneumatic	F. L. Dodgson	636,770	Nov. 14	1043	223	89	1159
Railway signaling apparatus	W. Brierley	628,299	July 4	659	153, 154	88	127
Railway signaling apparatus	W. Hume	637,337	Nov. 21	2165	466	89	1393
Railway signaling apparatus	E. and G. Maynard	623,090	Apr. 11	1625	374	87	331
Railway signaling apparatus	W. B. Quelch	627,655	June 27	2701	592, 593	87	2197
Railway signaling device. Electric	D. Valentine	623,444	Apr. 18	2298	526	87	480
Railway sleeper and chair. Combined	H. E. Rooke	634,032	Oct. 3	88	23	89	22
Railway signaling apparatus	W. Brierley	628,300	July 4	661	154, 155	88	127
Railway-spike	M. Kennedy	631,489	Aug. 22	3274	745	88	1419
Railway-spike	J. R. Kunzelman	619,582	Feb. 14	1420	326	86	1105
Railway-spike	J. R. Kunzelman	634,985	Oct. 17	1850	439	89	401
Railway-spike	A. F. Priest	637,525	Nov. 21	2496	541	89	1458
Railway-spike key	J. Harrison	633,838	Sept. 26	3059	711	88	2350
Railway spike or nail puller	T. G. Brown	639,887	Dec. 26	3127	719	89	2534
Railway-spikes. Machine for manufacturing	O. Bolte	638,315	Dec. 5	242	50	89	1913
Railway. Surface-contact electric	D. Robertson, Jr	638,186	Nov. 28	4124	872	89	1841
Railway-switch	E. F. Barth	632,622	Sept. 5	742	170	88	1853
Railway-switch	P. O. E. Boudreaux	627,384	June 20	2185	479	87	2078
Railway-switch	R. Cady	632,673	Sept. 5	860	200, 201	88	1879
Railway-switch	J. Cloud and F. M. Osborne	618,055	Jan. 24	2275	508	86	497
Railway-switch	N. L. Coffenberry	618,643	Jan. 31	3389	754	86	721
Railway-switch	G. F. Come	619,280	Feb. 14	922	208	86	1008

Alphabetical list of inventions—Continued.

Invention.	Name.	No.	Date.	Monthly volume.		Official Gazette.	
				Spec.	Dr'g.	Vol.	Page.
Railway-switch	T. Copeman	629,955	Aug. 1	424	92	88	805
Railway-switch	C. K. Cordrey	637,447	Nov. 21	2356	508	89	1431
Railway-switch	R. W. King	620,146	Feb. 28	2479	563	86	1349
Railway-switch	C. F. Kress, Jr.	633,723	Sept. 26	2878	669	88	2312
Railway-switch	E. P. Newman	630,730	Aug. 8	1888	426	88	1103
Railway-switch	H. B. Nichols	625,458	May 23	2738	623	87	1292
Railway-switch	N. Z. Norrington	633,101	Sept. 12	1687	397	88	2055
Railway-switch	H. C. Odenkirk	628,281	July 4	618	146	88	119
Railway-switch	F. L. Pedneau	629,811	Aug. 1	90	22	88	738
Railway-switch	J. S. Perry	630,518	Aug. 8	1524	341	88	1032
Railway-switch	J. E. Peter	634,309	Oct. 3	645	157	89	130
Railway-switch	M. S. Pittman	639,284	Dec. 19	2009	463	89	2294
Railway-switch	H. Stelter	634,706	Oct. 10	1353	320	89	287
Railway-switch	A. A. Strom	625,961	May 30	3664	831	87	1491
Railway-switch	G. B. Taylor and C. B. Voynow	626,250	June 6	57	13	87	1625
Railway-switch	W. H. Thorp	621,386	Mar. 21	1571	348, 349	86	1831
Railway-switch	A. M. Threewits	632,289	Sept. 5	155	36	88	1738
Railway-switch	C. Troup	633,055	Sept. 12	1576	367	88	2032
Railway-switch	C. W. Wentzell	637,054	Nov. 14	1582	341, 342	89	1266
Railway-switch	J. T. Westwood	624,590	May 9	1182	266	87	952
Railway-switch. Automatic	E. R. Gow	638,572	Dec. 5	719	153	89	2004
Railway switch. Automatic street-	M. E. Morse	619,980	Feb. 21	2174	495	86	1276
Railway switch. Automatic street-	F. Walter	637,539	Nov. 21	2528	547	89	1464
Railway-switch detector-bar	L. Carrier and E. Z. Clow	625,741	May 30	3234	735	87	1409
Railway-switch. Electric	F. A. Ruff	628,856	July 11	1703	398	88	352
Railway-switch. Electric	C. E. Young	632,980	Sept. 12	1450	336	88	2007
Railway switch-mate	C. F. Kress, Jr.	617,167	Jan. 3	593	139	86	116
Railway-switch-operating mechanism	A. W. Baker	626,662	June 13	804	183	87	1789
Railway-switch-operating mechanism	J. E. Young and G. Morden	629,414	July 25	2718	631	88	586
Railway-switch-operating wires and conduits. Support for	F. J. Schmeiser	635,353	Oct. 24	2531	589	89	548
Railway-switch. Self-closing	R. F. Carnes	619,135	Feb. 7	647	139	86	938
Railway switch-stand and signal combined	H. C. Odenkirk	628,282	July 4	620	147	88	120
Railway switch. Street-	W. J. Hughes	620,928	Mar. 14	723	160	86	1655
Railway switch. Street-	C. and A. Moran	629,265	July 18	2434	563	88	508
Railway switch. Street-	C. Stadtfeld	622,724	Apr. 11	978	227, 228	87	205
Railway-switch tongue-rail	E. P. Martin and R. Price-Williams	635,021	Oct. 17	1905	453	89	411
Railway-switches, &c. Lock for	L. B. Badgett	632,393	Sept. 5	336	76	88	1773
Railway switching device	W. F. Burr	636,197	Oct. 31	4207	967	89	891
Railway system and traveling collector therefor. Underground electric-	N. Henquin	621,080	Mar. 14	1025	225	86	1711
Railway system. Electric-	G. L. Campbell	621,321	Mar. 21	1468	325	86	1811
Railway system. Electric-	J. G. Justin	631,015	Aug. 15	2406	546	88	1229
Railway system. Electric-	B. E. Osborn	625,796	May 30	3344	760	87	1430
Railway system. Electric-	E. B. W. Reichel	617,837	Jan. 17	1871	418	86	403
Railway system. Electric-	W. Stein	623,223	Apr. 18	1899	436	87	398
Railway system. Electric-	L. E. Walkins	625,223	May 16	2304	525	87	1185
Railway system. Electric-	L. E. Walkins	625,281	May 16	2416	547	87	1205
Railway system. Electric-	L. E. Walkins	625,282	May 16	2418	547, 548	87	1205
Railway system. Inverted-third-rail electric-	L. E. Walkins	625,283	May 16	2422	548	87	1206
Railway system. Surface-contact	W. B. Potter	630,927	Aug. 15	2236	510	88	1196
Railway system. Third-rail electric-	J. R. Farmer	629,435	July 25	2752	639	88	592
Railway systems. Timing apparatus for trolley-	H. Garrett	617,010	Jan. 3	282	63	86	56
Railway-tariff, &c.	A. W. Standing	627,358	June 20	2113	467, 468	87	2064
Railway-tie	E. L. Brown	618,220	Jan. 24	2609	577	86	558
Railway-tie	F. A. Clarkson	631,618	Aug. 22	3511	791	88	1467
Railway-tie	A. Dixon	634,882	Oct. 17	1672	394	89	365
Railway-tie	H. J. Donaghy	625,153	May 16	2190	498	87	1163
Railway-tie	W. C. Gregg	638,922	Dec. 12	1364	311	89	2152
Railway-tie	S. McElfatrick	626,081	May 30	3935	894	87	1541
Railway-tie	J. Mulvey	627,827	June 27	3000	656	87	2256
Railway-tie	J. S. Sherman	633,250	Sept. 19	1986	466	88	2125
Railway-tie	S. F. Swanson	621,981	Mar. 28	2705	610	86	2065
Railway-tie	R. E. Wilson	630,156	Aug. 1	804	173	88	881
Railway-tie and means for securing rails thereto. Composition	A. Baca	633,413	Sept. 19	2304	541	88	2186
Railway-tie and rail-fastener. Metallic	L. W. Gereckey	618,565	Jan. 31	3260	724	86	696
Railway-tie and rail-fastener. Metallic	L. W. Gereckey	618,566	Jan. 31	3262	724	86	696
Railway-tie and rail-fastener. Metallic	L. W. Gereckey	635,538	Oct. 24	2923	667	89	625
Railway-tie and support. Metallic	L. W. Gereckey	618,567	Jan. 31	3263	724	86	697
Railway-tie. Metallic	J. M. Hoon	626,233	June 6	31	7	87	1621
Railway-tie. Metallic	G. A. and T. F. Penrose and W. R. Ware.	617,600	Jan. 10	1406	319	86	292
Railway-tie. Metallic	J. B. Walker	633,673	Sept. 26	2786	648	88	2293
Railway-tie plate	A. B. B. Harris	625,884	May 30	3525	800	87	1465
Railway-tie plate	G. K. Kinney and S. L. Trueblood	631,873	Aug. 29	3978	890	88	1567
Railway-tie plate	J. H. Malven	622,505	Apr. 4	566	133	87	107
Railway-tie plate	B. Wolhaupter	636,607	Nov. 7	666	146	89	1057
Railway tie-plate gage	J. Kiley	623,722	Apr. 25	2787	637	87	590
Railway-tie-shearing machine	W. Barth	620,533	Feb. 28	3134	718, 719	86	1473
Railway-ties, &c. Device for use in extracting	A. Zetter	623,300	Apr. 18	2045	470	87	428
Railway-ties, &c. Device for extracting	A. Zetter	637,843	Nov. 28	3452	721	89	1708
Railway-track bumper	M. L. Mardis	634,896	Oct. 17	1691	399	89	369
Railway-track cleaner	F. V. Dart and C. W. McMurry	631,847	Aug. 29	3934	880	88	1558
Railway-track foot-guard	P. J. Stockinger	638,292	Dec. 5	201	42	89	1904
Railway track-rails. Appliance for street-	S. J. Buckland	619,069	Feb. 7	514	108	86	910
Railway-track-sanding pipes. Pneumatic device for clearing	J. H. Hanlon	633,193	Sept. 19	1867	440	88	2101
Railway track. Street-	H. P. Berck	622,988	Apr. 11	1439	332	87	294
Railway-track structure	C. F. Kress, Jr.	617,166	Jan. 3	591	139	86	116

Alphabetical list of inventions—Continued.

Invention.	Name.	No.	Date.	Monthly volume. Spec.	Monthly volume. Dr'g.	Official Gazette. Vol.	Official Gazette. Page.
Railway-track structure	E. Ott	633,728	Sept. 26	2885	670	88	2313
Railway-track structure	F. F. Stockwell, Jr	623,578	Apr. 25	2550	585	87	547
Railway-track structure	F. F. Stockwell, Jr	626,734	June 13	944	214	87	1815
Railway-track structure	P. G. Stormer	627,544	June 27	2488	546	87	2154
Railway-tracks. Device for preventing accumulation of sand on	E. Lundgren	623,797	Apr. 25	2953	674	87	623
Railway-tracks. Metallic cross-tie for	S. Hazard	626,612	June 6	698	161	87	1750
Railway-train controlling means	H. Biermann	636,313	Nov. 7	148	32	89	951
Railway-train electric traction	O. H. E. Kaselowsky	633,594	Sept. 26	2644	617, 618	88	2266
Railway-train pneumatic signal	C. Gulland	632,813	Sept. 12	1158	265	88	1952
Railway-train schedule and time-card. Perpetual	R. W. Jemison	638,462	Dec. 5	534	109	89	1969
Railway-train signal apparatus	C. N. Frederickson	617,088	Jan. 3	435	105	86	84
Railway-trains, &c. Apparatus for recording movements of	W. H. Bailey	630,312	Aug. 8	1088	237, 238	88	952
Railway-trains. Safety-van for	J. Emden	639,367	Dec. 19	2189	506	89	2330
Railway-vehicles. Electrohydraulic brake for	C. Durey	627,772	June 27	2903	634, 635	87	2237
Railway vehicles. Motor-connecting box for electric	S. Hendrie	627,502	June 27	2405	527, 528	87	2138
Railway water-tanks. Water-column for	W. F. Poyser and J. Brown	631,439	Aug. 22	3177	722	88	1400
Railway wear-plate and rail-brace	C. D. Paxson	623,177	Apr. 18	1823	418	87	383
Railway wear-plate. Duplex	C. D. Paxson	623,420	Apr. 18	2259	517	87	472
Railways. Apparatus for line distribution by inductional transformers or secondary generators for electric	E. E. Ries	622,865	Apr. 11	1224	285	87	251
Railways. Automatic safety appliance for	G. S. Jeffries	624,337	May 2	721	160	87	838
Railways, &c. Automatic switch for	H. F. Eaton	622,133	Mar. 28	2967	671, 672	86	2118
Railways. Automatic system for preventing collisions on electric	C. F. Bancroft	621,205	Mar. 14	1243	274, 275	86	1756
Railways. Contact-shoe for surface-contact	M. T. A. Kubierschky	639,252	Dec. 19	1956	450	89	2282
Railways. Contact system for electric	W. Grunow, Jr	631,073	Aug. 15	2519	570, 571, 572	88	1252
Railways. Electric block-signal system for	L. C. Werner	638,782	Dec. 12	1116	250	89	2105
Railways. Girder structure for suspension	A. Rieppel	629,273	July 18	2445	567	88	510
Railways. Magnetic closer for electric	W. M. Brown	618,162	Jan. 24	2518	559	86	542
Railways. Pneumatically-operated contact-shoe for electric	S. H. Libby	637,806	Nov. 28	3375	707	89	1691
Railways. Safety cable system for electric	H. B. Cox	623,136	Apr. 18	1737	401	87	366
Railways. Signaling system and apparatus for electric trolley	W. R. Stearns	639,202	Dec. 12	1859	428, 429	89	2248
Raisin-seeder	W. B. Fenn	620,866	Mar. 7	614	134, 135	86	1623
Raisin-seeder	W. B. Fenn	631,069	Aug. 15	2510	568, 569	88	1251
Raisin-seeder	C. N. Holden	624,213	May 2	488	105	87	793
Raisin-seeder	W. M. McConnaughay	639,756	Dec. 26	2903	669, 670	89	2490
Raisin-seeder	J. B. Rice	627,270	June 20	1942	427, 428	87	2031
Raisin-seeding machine	N. B. Converse	635,713	Oct. 24	3231	744, 745	89	686
Raisin-seeding machine	F. H. Snyder and N. C. Hansen	639,871	Dec. 26	3106	714, 715	89	2530
Raisin stemming and cleaning machine	C. S. Cox	639,152	Dec. 12	1752	405	89	2228
Rake: *See* Cornstalk-rake. Hay-rake. Lawn-rake. Pea-rake. Stalk-rake. Stalk and hay rake.							
Rake	W. H. Backus	624,899	May 16	1750	395	87	1081
Rake	L. Seiple	629,927	Aug. 1	349	77	88	790
Rake	J. Steers	634,310	Oct. 3	646	157	89	131
Rake attachment. Hay	A. F. Martin	626,434	June 6	405	96	87	1692
Ram for tools. Sliding	M. D. Converse	638,704	Dec. 12	990	220	89	2079
Ram. Hydraulic	J. C. Gelly	624,921	May 16	1785	402	87	1087
Ram. Hydraulic	J. C. Gelly	640,125	Dec. 26	3570	821	89	2626
Ram. Pneumatic	A. L. Humphrey	638,928	Dec. 12	1371	313	89	2154
Ramie-defibrating machine	W. N. Packer	635,345	Oct. 24	2513	585	89	545
Rammer. Portable	J. C. Cramp	624,458	May 9	937	210	87	904
Rammer. Portable	J. C. Cramp	624,459	May 9	939	210	87	905
Ramrod	F. Lehto	622,771	Apr. 11	1057	245	87	220
Rand-trimming and stitch-rubbing machine	E. E. Angell	632,084	Aug. 29	4358	979	88	1641
Range	L. Edel	629,782	Aug. 1	40	10, 11	88	728
Range	J. E. Hunt	637,260	Nov. 21	2002	429	89	1360
Range and position finder. Alternating-current	A. C. Crehore and G. O. Squier	625,647	May 23	3061	697	87	1358
Range-boiler	J. H. Stone	628,680	July 11	1397	325	88	290
Range-finder	G. Langer	630,244	Aug. 1	951	208, 209	88	910
Range-finder. Sea-going	J. Donegan	632,105	Aug. 29	4404	989	88	1650
Range. Gas	O. P. Moon and G. W. Graves	639,263	Dec. 19	1969	454	89	2285
Range oven-door	H. Born	626,047	May 30	3871	878	87	1529
Ranges. Water-heating apparatus for	H. R. Sheppard	631,184	Aug. 15	2705	611	88	1288
Rasp	H. C. Shoemaker	621,378	Mar. 21	1563	347	86	1829
Rasp-cutting machine	W. N. Rumely	627,532	June 27	2458	540	87	2149
Rat-trap	W. D. Brown	633,068	Sept. 12	1594	371	88	2036
Rats, &c. Composition for expelling	E. Dowie and J. M. Oxley	631,738	Aug. 22	3732	------	88	1508
Ratchet-drill	A. Klay	636,208	Oct. 31	4225	972	89	894
Ratchet-drill	C. S. Stafford	634,594	Oct. 10	1159	276	89	248
Ratchet-drill and screw-threading device	J. Miller	633,880	Sept. 26	3141	728	88	2365
Ratchet mechanism	L. P. Wellmann	631,866	Aug. 29	3963	886	88	1564
Ratchet-wheel housing	R. H. Dougherty	636,645	Nov. 7	750	164	89	1073
Ratchet-wrench	J. Asbury	639,700	Dec. 26	2800	646	89	2469
Ratchet-wrench	F. A. Crocker	625,149	May 16	2182	496	87	1162
Ratchet-wrench. Adjustable	T. P. Sayers	630,819	Aug. 8	2045	461	88	1136

Alphabetical list of inventions—Continued.

Invention.	Name.	No.	Date.	Monthly volume.		Official Gazette.	
				Spec.	Dr'g.	Vol.	Page.
Ratchet-wrench. Self-adjusting	C. S. Fleming	636,511	Nov. 7	491	109	89	1021
Razor	J. T. Finley	624,778	May 9	1514	344	87	1018
Razor, &c	A. G. Johnson	637,124	Nov. 14	1742	374	89	1295
Razor	F. Patak	617,835	Jan. 17	1868	418	86	403
Razor	E. L. Schmitz	622,544	Apr. 4	652	153	87	124
Razor box. Safety-	F., R., and O. Kampfe	638,126	Nov. 28	4016	846	89	1819
Razor-cabinet. Antiseptic	A. R. Miranda	631,087	Aug. 15	2549	577	88	1257
Razor. Safety-	F., R., and O. Kampfe	637,511	Nov. 21	2469	536	89	1453
Razor. Safety-	F., R., and O. Kampfe	637,512	Nov. 21	2472	536	89	1453
Razor. Safety-	E. L. Schmitz	632,025	Aug. 29	4252	956	88	1620
Razor-sharpening device	F. L. Brunswick	620,273	Feb. 28	2695	618	86	1389
Razor-strop	T. Gallert	621,809	Mar. 28	2365	529	86	2000
Razor-strops. Holder for endless	W. D. Evans	639,545	Dec. 19	2505	577	89	2393
Razor stropping and honing apparatus	J. A. Platt and F. C. dos Passos	617,182	Jan. 3	611	143	86	120
Razor-stropping device	W. H. Nicholls	626,186	May 30	4159	947	87	1582
Razor-stropping machine	G. Beston	617,274	Jan. 3	788	183	86	155
Reading-stand	W. F. Loan	639,857	Dec. 26	3087	710	89	2526
Ready reckoner	A. E. H. Payne	632,844	Sept. 12	1211	277	88	1963
Reamer	W. Radley	629,171	July 18	2281	531	88	481
Reamer. Expansion rock-	O. G. Worsley	631,517	Aug. 22	3328	756	88	1430
Reamer. Under-	M. Hall	634,941	Oct. 17	1758	418	89	382
Receptacle-closure	C. T. Draper	636,646	Nov. 7	751	164	89	1073
Receptacles. Construction of	H. S. Reynolds	621,540	Mar. 21	1858	413	86	1885
Receptacles. Metallic closure for	J. A. Steward	637,295	Nov. 21	2070	443	89	1373
Reciprocating drill	A. E. W. Meissner	637,809	Nov. 28	3379	708	89	1692
Reciprocating engine. Electromagnetic	M. S. Conly	630,448	Aug. 8	1390	312	88	1008
Reckoner	C. Tregoning	634,779	Oct. 10	1477	348	89	310
Reclining-chair	C. E. and D. W. Brower	629,540	July 25	2963	691	88	633
Reclining-chair	I. N. Dann	628,700	July 11	1434	333	88	298
Record. Card-	S. T. Williams	623,857	Apr. 25	3073	708	87	646
Record. Card-	S. T. Williams	624,597	May 9	1198	270	87	955
Record-holder	J. C. Kattell	628,333	July 4	730	168	88	140
Recorder: *See* Air-brake emergency-recorder. Automatic recorder. Cash-recorder. Log-recorder. Mail-collector's recorder. Passenger-recorder. Salary-recorder. Sales-recorder. Speed-recorder. Time-recorder.							
Recorders or registers. Number-assembling device for	J. W. A. Gardam	629,349	July 25	2601	603	88	559
Recording apparatus	E. C. Hegan	638,579	Dec. 5	733	157, 158, 159	89	2007
Recording apparatus	R. Macrae	617,534	Jan. 10	1283	291	86	270
Recording apparatus. Electric	C. L. Jaeger	620,326	Feb. 28	2795	639	86	1408
Recording instruments. Multiplying device for	W. H. Bristol	625,537	May 23	2867	653	87	1319
Recording system. Electric	C. L. Jaeger	620,327	Feb. 28	2797	640	86	1409
Recording system. Electric	C. L. Jaeger	639,053	Dec. 12	1579	362, 363, 364	89	2194
Recording-tablet	W. M. Sykes	626,943	June 13	1363	300	87	1896
Red. Making indigo-	R. Knietsch and P. Seidel	625,268	May 16	2395	-----	87	1201
Reeds. Machine for laying	I. S. Craig	629,774	Aug. 1	22	6,7	88	726
Reel: *See* Cable-reel. Clothes-line reel. Fire-hose reel. Fishing-reel. Harvester-reel. Hose-reel. Paper-reel. Rod-reel. Wire-reel. Wire-fabric-machine reel.							
Reel	D. J. Cashin	619,278	Feb. 14	914	206	86	1006
Reel	H. Casler	617,435	Jan. 10	1112	254	86	235
Reel	V. G. Hazard	638,012	Nov. 28	3787	796	89	1774
Reel	E. I. Olinger	639,930	Dec. 26	3214	737	89	2552
Reel for angling, &c	A. J. Arnold	638,194	Nov. 28	4135	874	89	1843
Reel for chalk-lines, plumb-bobs, &c	S. W. Wilcox	625,484	May 23	2776	632	87	1300
Reel mechanism	O. J. Küstner	620,332	Feb. 28	2808	641	86	1411
Refining-engine	P. Dillon	621,298	Mar. 14	1417	313	86	1789
Refining or crystallizing apparatus	C. W. Miles	633,207	Sept. 19	1895	446, 447	88	2107
Reflecting attachment. Lamp	A. C. Ball	636,615	Nov. 7	684	149	89	1060
Reflector	L. Huntze	629,691	July 25	3230	751	88	684
Reflector for art-galleries	G. F. Spencer	619,849	Feb. 21	1951	443	86	1235
Reflector for incandescent lamps	E. F. Gennert	639,372	Dec. 19	2195	507	89	2332
Reflector for use in photochromoscopes, &c	F. E. Ives	622,480	Apr. 4	528	124	87	100
Reflector. Incandescent-lamp	W. Goodchild	634,295	Oct. 3	613	150	89	123
Refractory material	A. Imschenetzky	631,719	Aug. 22	3697	-----	88	1502
Refrigerating apparatus	M. Cooper, Jr	629,341	July 25	2582	598, 599	88	556
Refrigerating apparatus	W. W. Harris	626,906	June 13	1308	287, 288	87	1886
Refrigerating apparatus	H. Lyon and J. B. Talbot-Crosbie	635,560	Oct. 24	2962	678	89	632
Refrigerating apparatus. Automatic	A. T. Marshall	630,616	Aug. 8	1700	382, 383	88	1068
Refrigerating apparatus. Automatic expansion-valve for	A. T. Marshall	630,617	Aug. 8	1706	383	88	1068
Refrigerating apparatus for water-supply systems	L. K. Brubaker	622,113	Mar. 28	2925	663	86	2109
Refrigerating apparatus. Pressure and temperature regulator for feed-lines of	J. E. Starr	624,560	May 9	1138	255	87	943
Refrigerating apparatus with ammonia solution. Apparatus for charging	W. W. Harris	629,359	July 25	2613	608	88	564
Refrigerating-car	W. E. Donehower, J. J. Downs, and J. A. Dwyer.	634,447	Oct. 10	904	217	89	198
Refrigerating-car thermometer attachment	W. Turner	627,025	June 13	1509	329	87	1925

Alphabetical list of inventions—Continued.

Invention.	Name.	No.	Date.	Monthly volume. Spec.	Monthly volume. Dr'g.	Official Gazette. Vol.	Official Gazette. Page.
Refrigerating-case for transporting frozen goods. Portable	D. Brun	624,168	May 2	420	86	87	780
Refrigerating device	O. Ulrichs	619,808	Feb. 21	1878	428	86	1219
Refrigerating ice-chamber	W. Bachner	634,791	Oct. 10	1499	353	89	314
Refrigerating-machine	L. Block	623,270	Apr. 18	1993	457	87	418
Refrigerating-machine absorber	P. R. McCrary	633,143	Sept. 19	1782	419	88	2084
Refrigerating-machine. Absorption	F. Allen	638,491	Dec. 5	585	120, 121	89	1978
Refrigerating-machine condensing-coil	A. Campbell	635,955	Oct. 31	3714	858, 859	89	791
Refrigerating purposes. Liquefied-air container for	E. C. Hargrave	625,760	May 30	3272	741	87	1416
Refrigerating system	H. Torrance, Jr	635,882	Oct. 31	3578	823	89	765
Refrigerator	J. H. Ames	625,309	May 23	2480	563	87	1244
Refrigerator	P. L. Cron	617,144	Jan. 3	552	130, 131	86	108
Refrigerator	L. W. Fish	621,645	Mar. 21	2039	455	86	1922
Refrigerator	W. C. Herrick	625,301	May 16	2457	558, 559	87	1213
Refrigerator	W. O. and J. J. Hudgens	623,905	Apr. 25	3159	728	87	663
Refrigerator	W. B. Keyser	621,497	Mar. 21	1776	396	86	1869
Refrigerator	H. M. Kirby	628,888	July 11	1758	411	88	362
Refrigerator	W. L. Kohler	625,569	May 23	2930	665	87	1331
Refrigerator	O. G. Mathewson	638,255	Dec. 5	100	23	89	1885
Refrigerator	P. J. McHenry and W. T. Norton	630,258	Aug. 1	971	213	88	914
Refrigerator	A. M. Murphy	627,651	June 27	2692	590, 591	87	2195
Refrigerator	G. A. Myers	627,518	June 27	2431	534	87	2143
Refrigerator	F. E. Ranney	624,089	May 2	252	53, 54	87	750
Refrigerator	F. E. Ranney	624,090	May 2	255	54	87	750
Refrigerator	B. M. Stewart	639,308	Dec. 19	2058	473	89	2303
Refrigerator	W. Tittle	633,329	Sept. 19	2150	503	88	2157
Refrigerator	K. Wilt	629,143	July 18	2237	518, 519	88	473
Refrigerator air-purifier	J. C. Fleming	636,651	Nov. 7	759	166	89	1075
Refrigerator-car	E. T. and G. C. Earl and J. H. Miller	633,820	Sept. 26	3029	704	88	2343
Refrigerator-car	A. J. McArthur	618,281	Jan. 24	2714	603	86	578
Refrigerator-car	J. L. Morris	634,583	Oct. 10	1144	271, 272	89	245
Refrigerator-car	W. J. Shaw	634,702	Oct. 10	1346	318, 319	89	285
Refrigerator-car ventilator	R. Graham and E. R. M. Pierce	620,119	Feb. 28	2434	549, 550	86	1339
Refrigerator-car ventilator	E. R. M. Pierce	620,174	Feb. 28	2515	572	86	1356
Refrigerator-case	G. L. Benson	634,868	Oct. 17	1649	388	89	310
Refrigerator-circle	F. Hinrichs	625,333	May 23	2526	574	87	1252
Refrigerator-door fastening	M. J. Kenny	633,552	Sept. 19	2532	594	88	2229
Refrigerator ice-tanks. Adjustable floor for	R. Graham and E. R. M. Pierce	626,061	May 30	3894	884	87	1533
Refrigerator. Keg-	A. Grap	635,474	Oct. 24	2818	643	89	605
Refrigerator. Knockdown	C. H. Leonard and L. H. Solosth	618,474	Jan. 31	3085	683	86	663
Refrigerator or cold-storage receptacle	R. Laupheimer	629,572	July 25	3010	703	88	641
Refrigerator-pail	J. Kraner	633,201	Sept. 19	1880	443	88	2104
Refrigerator. Revolving	L. J. Fowler	630,044	Aug. 1	600	131	88	842
Refrigerator. Shipper's	J. O. Bowdish	624,165	May 2	418	86	87	780
Refrigerator-tank car	C. Efros	625,439	May 23	2707	616, 617	87	1287
Refrigerators, &c. Rolling door for	C. Cohen	636,491	Nov. 7	449	99	89	1012
Refuse. Apparatus for conveying and collecting house	P. Maurer	636,825	Nov. 14	1131	243	89	1177
Refuse-destructor, &c	J. A. and W. K. Baker	639,649	Dec. 19	2693	619	89	2432
Refuse-receptacle. Hygienic	W. W. Brooks and J. W. Weaver	639,017	Dec. 12	1536	352	89	2186
Regenerative furnace	F. Siemens	624,388	May 9	809	181, 182	87	855
Register:							
See Air-register.	Hotel-register.						
Autographic register.	Hotel or club register.						
Automatic register.	Letter-box register.						
Cash-register.	Passenger-register.						
Confessional-register.	Pay-roll register.						
Fare-register.	Pipe-register.						
Faucet-register.	Punching-register.						
Grain-drill register.	Telegraph-register.						
Hot-air register.	Telephone-register.						
	Telephone-call register.						
	Weight-register.						
Register	J. D. Davis	618,602	Jan. 31	3320	739	86	708
Register	W. A. Dodge	638,447	Dec. 5	499	101	89	1962
Register	C. S. Hood	633,455	Sept. 19	2370	558	88	2199
Register	F. Lambert	618,359	Jan. 24	2854	634	86	604
Register	R. S. Oder	618,719	Jan. 31	3532	788	86	750
Register	R. Scott	622,277	Apr. 4	137	32	87	29
Register	A. C. Spofford	628,556	July 11	1144	266, 267	88	241
Register	E. B. Weston	638,304	Dec. 5	224	47	89	1909
Register or ventilator	R. R. Buehler	629,336	July 25	2574	597	88	555
Register or ventilator	R. R. Buehler	636,892	Nov. 14	1265	271, 272	89	1204
Registering device	G B. Bassett	618,636	Jan. 31	3378	752	86	719
Registering apparatus	M. L. A. Bohle	627,971	July 4	22	5	88	7
Registering apparatus	W. A. A. Röper	628,040	July 4	147	31	88	30

Alphabetical list of inventions—Continued.

Invention.	Name.	No.	Date.	Monthly volume. Spec.	Monthly volume. Dr'g.	Official Gazette. Vol.	Official Gazette. Page.
Registering-machine	A. F. Bardwell	640,164	Dec. 26	3633	836, 837	89	2639
Regulator: *See* Automatic regulator. Damper-regulator. Dynamo-regulator. Electrical regulator. Feed-regulator. Feed-water regulator. Fluid-actuated regulator. Fluid-pressure regulator. Gas-regulator. Gas-reducing regulator. Motor speed-regulator. Pressure-regulator. Pump-regulator. Speed-regulator. Temperature-regulator. Tooth-regulator. Valve-regulator. Water-pressure regulator. Windmill-regulator.							
Regulator and automatic shut-off	G. C. Crouse and J. J. Foley	638,217	Dec. 5	16	5, 6	89	1870
Rein	O. Fischer	631,486	Aug. 22	3262	742	88	1417
Rein and hitching-strap holder	T. Lee	624,226	May 2	514	109	87	798
Rein-controlling means	R. J. Gatling	634,451	Oct. 10	910	218	89	199
Rein-guard	E. W. Gram	628,265	July 4	585	139	88	114
Rein-guard	P. M. Heerwagen	639,727	Dec. 26	2847	656	89	2479
Rein-guard	F. F. Montfort	630,390	Aug. 8	1270	277	88	986
Rein-guard for wagon-poles	J. F. Sanderson	621,853	Mar. 28	2445	545	86	2016
Rein-guide	G. W. Morris	619,205	Feb. 7	774	168	86	963
Rein-hold adjuster	C. D. McCombs and T. J. Parkinson	619,982	Feb. 21	2177	495	86	1276
Rein-holder	J. Fairbairn	618,170	Jan. 24	2532	560	86	544
Rein-holder	J. Trantom	628,501	July 11	1025	239	88	218
Rein holder. Driving-	A. Mendenhall	637,811	Nov. 28	3386	709	89	1694
Rein holder. Driving-	J. M. Ruse	636,563	Nov. 7	595	131	89	1042
Rein holder. Driving-	W. B. Vanderbilt	620,997	Mar. 14	868	189	86	1683
Rein-operating device	T. Toomey	624,578	May 9	1167	262	87	949
Rein-operating device	T. Toomey	624,579	May 9	1168	262	87	949
Rein-support	J. G. Ryckman	633,493	Sept. 19	2429	572	88	2210
Relasting-machine	A. G. Fitz	622,845	Apr. 11	1198	279	87	247
Relay	J. P. Coleman	617,854	Jan. 17	1902	424, 425	86	410
Relay	J. P. Coleman	625,146	May 16	2179	495	87	1161
Relay and distributer. Combined	K. Himrod, J. R. Tucker, and C. C. Hinckley.	637,789	Nov. 28	3347	701, 702	89	1687
Relay. Automatic	F. E. Chapman	636,116	Oct. 31	4060	928	89	860
Releasing device. Animal-	T. B. Laumann	631,372	Aug. 22	3054	691	88	1375
Releasing device. Animal-	W. G. Shafer	619,798	Feb. 21	1864	425	86	1217
Remedy. Internal	F. C. Doolittle	632,552	Sept. 5	642	------	88	1834
Removable handle for crocks, &c	R. N. Foust	636,399	Nov. 7	288	65	89	979
Rendering apparatus	T. H. Wymonde	628,378	July 4	803	186	88	154
Repair and assembling jack	H. T. Kingsbury	619,186	Feb. 7	742	161	86	957
Repair-tool	R. L. Johnstone	617,398	Jan. 10	1042	237	86	222
Repairing device	G. B. Leonard	621,108	Mar. 14	1079	234	86	1722
Repairing or joining device	L. Penwell	637,024	Nov. 14	1534	330	89	1257
Reproducing device	A. E. Jacobs	637,262	Nov. 21	2004	429, 430	89	1361
Reproducing device	A. E. Jacobs	637,263	Nov. 21	2006	430	89	1361
Resawing-machine feed-works	F. McDonough	633,028	Sept. 12	1530	356, 357, 358	88	2023
Resistance-box	H. W. Leonard	635,441	Oct. 24	2761	632	89	593
Resistance device	F. L. Ellingwood	623,079	Apr. 11	1602	369	87	326
Respirator	C. B. Lakin	630,242	Aug. 1	948	208	88	910
Retinoscope	C. Prentice	627,011	June 13	1494	326	87	1923
Retinoscope	S. A. Rhodes	637,032	Nov. 14	1549	333, 334	89	1260
Retort	H. Spurrier	632,794	Sept. 12	1119	257, 258	88	1944
Retort-door and means for closing same	J. B. Houston	638,122	Nov. 28	4009	844	89	1817
Retort for carbonizing wood	W. H. Bowers	634,161	Oct. 3	333	84	89	69
Retort for drying sewage matter	W. H. Bowers	624,166	May 2	419	86	87	780
Retort. Rotary	F. W. Smith	629,617	July 25	3108	723	88	660
Retouching-frame	J. N. Choate	632,643	Sept. 5	781	181	88	1862
Return-feed device	A. Conkling	633,988	Oct. 3	12	3	89	5
Reversible seat	D. E. Hipwell	623,310	Apr. 18	2063	473	87	432
Reversible tie	H. G. Disbrow	622,331	Apr. 4	234	53	87	44
Reversible wrench	T. F. Churchill	620,225	Feb. 28	2616	594	86	1373
Reversing mechanism	G. V. Blackstone	633,783	Sept. 26	2975	691	88	2332
Reversing mechanism	G. S. Gilman	623,898	Apr. 25	3145	725	87	660
Reversing mechanism	C. Kruming	631,217	Aug. 15	2761	625	88	1300
Reversing mechanism	S. Logan	635,073	Oct. 17	2022	478	89	436
Reversing mechanism	E. E. Norton	623,381	Apr. 18	2187	502	87	456
Revolver finger-guard	E. S. Renwick	628,356	July 4	763	177	88	147
Revolving and reclining chair	F. Koenigkramer	629,036	July 18	2029	473	88	433
Revolving chair	M. Even	638,223	Dec. 5	27	7	89	1872
Revolving chair	J. M. Germanson	629,676	uly 25	3201	746	88	678
Revolving chair	J. M. Germanson	635,764	Oct. 31	3350	775	89	721
Revolving chair	P. Klumb	630,361	Aug. 8	1193	262	88	974
Revolving eccentric screen	J. D. Bray	622,035	Mar. 28	2790	629	86	2082
Revolving elevator or derrick crane	H. Hurlburt	634,577	Oct. 10	1135	269, 270	89	243
Rheostat	C. Wirt	633,172	Sept. 19	1837	432	88	2095
Rheostat	W. H. Woodman	622,748	Apr. 11	1015	237	87	213
Rheostat. Automatic	J. H. McGurty	630,466	Aug. 8	1433	321	88	1016
Rhodol derivative	J. J. Brack	625,536	May 23	2866	------	87	1319
Ribbon-cutting machine	S. Gottschall and H. Kamsler	623,900	Apr. 25	3151	726	87	661
Ribbon-feed mechanism	L. C. Myers	637,347	Nov. 21	2180	470	89	1396
Ribbon-fraying machine	L. E. King	627,508	June 27	2414	530, 531	87	2140
Ribbon. Mechanism for periodically displacing flexible	C. Faure	626,532	June 6	575	133	87	1726

Alphabetical list of inventions—Continued.

Invention.	Name.	No.	Date.	Monthly volume. Spec.	Monthly volume. Dr'g.	Official Gazette. Vol.	Official Gazette. Page.
Ribbon or band	S. Borton	640,085	Dec. 26	3497	802	89	2611
Ribbon-wire	H. W. Struss	621,435	Mar. 21	1652	365	86	1846
Rice-header	C. W. Sanner	630,933	Aug. 15	2246	512	88	1199
Rifle. Air-	W. R. Benjamin	627,320	June 20	2044	450	87	2051
Ring: *See* Bridle-bit rein-ring. Curtain-ring. Ear-ring. Embroidery-ring. Finger-ring. Harness-ring. Hog-ring. Key-ring. Packing-ring. Pin-ring. Spinning-ring. Wire-splicing ring.							
Ring-case	A. A. Caille	633,714	Sept. 26	2864	665	88	2309
Ripping apparatus. Seam-	R. Evans	633,642	Sept. 26	2731	636	88	2282
Ripping device	F. A. Reynolds	638,356	Dec. 5	326	69	89	1928
Ripping-tool	W. R. Applebay	630,792	Aug. 8	1993	451	88	1125
Rivet	M. D. Converse	625,491	May 23	2798	637	87	1306
Rivet-catcher	W. J. Beighey	639,503	Dec. 19	2424	559	89	2376
Rivet-setting machine	E. A. Barber	619,247	Feb. 7	848	186	86	978
Rivet-setting tool	J. W. Thompson	637,489	Nov. 21	2433	528	89	1446
Riveter's holding device	R. S. Moore	622,251	Apr. 4	87	20	87	20
Riveting	E. Gunnell	624,927	May 16	1792	404	87	1089
Riveting apparatus	E. Gunnell	624,928	May 16	1794	404, 405	87	1089
Riveting apparatus. Pneumatic	J. Boyer	624,447	May 9	917	206	87	901
Riveting-engine	J. Fielding	624,435	May 2	893	202	87	873
Riveting-machine	W. P. Bartel	636,103	Oct. 31	4036	924	89	855
Riveting-machine	O. W. Davis	624,759	May 9	1477	336	87	1011
Riveting-machine	E. Einfeldt	628,081	July 4	223	52	88	45
Riveting-machine	E. Kempshall	628,098	July 4	266	63, 64	88	53
Riveting-machine	J. H. Shepard	638,815	Dec. 12	1179	264	89	2116
Riveting-machine attachment	R. S. Moore	617,834	Jan. 17	1867	418	86	403
Riveting-tool	G. W. and H. Bumbaugh	622,204	Apr. 4	11	3	87	4
Riveting-tool	L. Zamboni	626,802	June 13	1073	242	87	1840
Road-breaking machine	H. Morrison	638,739	Dec. 12	1052	236	89	2091
Road-breaking machinery	H. H. Hosack	622,804	Apr. 11	1112	258, 259	87	230
Road machine or scraper	L. B. McAlpine	637,644	Nov. 21	3085	637, 638	89	1614
Road-making machine	W. H. Johnson	621,094	Mar. 14	1055	230	86	1717
Road making and repairing machine	M. G. Bunnell	618,024	Jan. 17	2210	493, 494	86	469
Road making and repairing machine	M. G. Bunnell	633,637	Sept. 26	2724	634, 635	88	2280
Roads. Combination-machine for making dustless	L. B. De Camp	637,713	Nov. 21	3214	668, 669	89	1640
Roadway	J. W. Maltby	619,592	Feb. 14	1434	330	86	1107
Roaster: *See* Coffee-roaster. Corn-roaster. Ore-roaster. Peanut-roaster. Seed-roaster.							
Roasting and oxidizing furnace	A. Ropp	634,247	Oct. 3	519	132	89	105
Roasting and smelting furnace	J. A. Russell	623,833	Apr. 25	3023	694	87	637
Roasting-furnace	J. B. F. Herreshoff	616,926	Jan. 3	120	27	86	25
Roasting-furnace	H. A. Keller	624,048	May 2	180	38	87	737
Roasting-furnace	L. T. Wright	629,023	July 18	2008	467, 468	88	428
Roasting-kiln	J. Zellweger	627,609	June 27	2619	576, 577	87	2181
Roasting or drying furnace	W. Harvey	627,333	June 20	2065	455	87	2056
Roasting-pan	J. Warfel	632,612	Sept. 5	726	167	88	1850
Rock and ore breaker	P. W. Gates	618,860	Feb. 7	75	16	86	819
Rock and ore breaker	E. E. Hanna and T. W. Capen	639,558	Dec. 19	2535	582	89	2399
Rock crusher and grinder	J. H. Kinkead	630,511	Aug. 8	1510	338	88	1030
Rock-drill	H. V. Conrad	624,181	May 2	435	90	87	783
Rock-drill	H. V. Conrad and R. L. Ambrose	635,301	Oct. 24	2448	569	89	532
Rock-drill	J. Grandmaison	631,787	Aug. 29	3839	855	88	1539
Rock-drill	M. C. Jackson	620,847	Mar. 7	580	126	86	1616
Rock-drill	J. McCulloch	621,271	Mar. 14	1362	302, 303	86	1778
Rock-drill	A. Rosenholz	617,407	Jan. 10	1059	241	86	226
Rock-drill	G. S. Ullathorne and H. P. Vacher	638,856	Dec. 12	1245	280	89	2128
Rock-drill	O. G. Worsley	617,795	Jan. 17	1797	402	86	388
Rock-drill and rock-drill bit, &c	A. Gozzard	628,530	July 11	1098	256	88	231
Rock-drill attachment	P. H. Reardon	638,938	Dec. 12	1391	318	89	2158
Rock-drill dressing and sharpening machine	W. Wanliss	631,914	Aug. 29	4039	906, 907	88	1578
Rock-drill. Electric	G. W. Pickett	632,658	Sept. 5	821	190, 191, 192	88	1871
Rock-drill piston-rods. Adjustable guide for	F. M. Anable	620,267	Feb. 28	2689	616	86	1388
Rock-drill supporting-tripod	J. B. Rhodes	622,264	Apr. 4	113	26	87	24
Rock-drill valve	T. Officer	627,703	June 27	2784	610	87	2212
Rock-drills. Die for manufacturing or sharpening star-bit	H. O. Palmer	619,087	Feb. 7	548	115	86	917
Rock-drilling apparatus	R. M. Scott and A. Goodsir	635,271	Oct. 17	2379	555	89	502
Rock-drilling engine	J. G. Leyner	626,761	June 13	989	224	87	1824
Rock-drilling-engine drill-holding device	J. G. Leyner	626,762	June 13	995	224	87	1825
Rock-drilling machine	W. A. Doble	619,147	Feb. 7	668	144	86	942
Rock-drilling machine	W. Gleeson	631,712	Aug. 22	3681	825	88	1499
Rock-drilling machinery	W. Gleeson	633,692	Sept. 26	2825	656	88	2301
Rock or coal drilling or other machine	H. H. Bliss	636,748	Nov. 14	996	213	89	1150
Rock or ore crusher	G. W. Wright	626,955	June 13	1387	305, 306	87	1901
Rock-penetrating pulley for cable saws	A. Monticolo	621,268	Mar. 14	1359	302	86	1778
Rock. Treating hydrous	A. A. Dickson	620,894	Mar. 14	664	------	86	1645

Alphabetical list of inventions—Continued.

Invention.	Name.	No.	Date.	Monthly volume. Spec.	Monthly volume. Dr'g.	Official Gazette. Vol.	Official Gazette. Page.
Rocks. Instrument for cutting grooves in cylindrical holes in	J. E. Almon	629,145	July 18	2241	519	88	474
Rocker. Pneumatic	O. and A. W. Anderson	637,065	Nov. 14	1611	348	89	1271
Rocking article	G. F. Drew	617,438	Jan. 10	1118	255	86	236
Rocking-chair. Adjustable	W. B. Holton	622,149	Mar. 28	2997	677	86	2124
Rocking-chair and bath. Combined	R. Straube	633,398	Sept. 19	2278	536	88	2181
Rocking-chair and lounge. Combined	O. A. Brown	637,706	Nov. 21	3205	666	89	1638
Rocking-chair. Folding	D. B. Whitely	633,677	Sept. 26	2797	651	88	2295
Rocking-chair. Spring	A. H. Ordway	635,179	Oct. 17	2225	518	89	474
Rocking or lounging chair	G. Kelly	629,694	July 25	3234	752	88	684
Rod: *See* Curtain-rod. Lease-rod.							
Rod and cable coupling	W. Connelly	626,527	June 6	564	130	87	1723
Rod-coupling	W. A. Hinkle and D. N. Ashmore	637,790	Nov. 28	3353	703	89	1687
Rod-feeding device	G. E. Smart	630,010	Aug. 1	535	118	88	829
Rod-reel	J. C. Cromwell	636,242	Nov. 7	20	5	89	929
Rod-reel	J. C. Cromwell	636,243	Nov. 7	21	5	89	929
Roll	A. Crocker and J. E. Morse	631,106	Aug. 15	2576	583	88	1262
Roll and transfer-table	H. C. Shaw	620,982	Mar. 14	842	184	86	1677
Roll. Compound	H. W. Munsey	619,496	Feb. 14	1288	295	86	1081
Roll-holder cutter	W. B. Purvis	630,267	Aug. 1	981	216	88	916
Roll-holder tension device	W. H. Lewis	631,402	Aug. 22	3110	704, 705	88	1386
Roll safety device	C. Kuhlewind and E. C. Eisengart	627,935	June 27	3202	700, 701	87	2299
Rolls	T. A. Edison	637,327	Nov. 21	2138	460, 461	89	1388
Rolls. Apparatus for heating	J. James	623,312	Apr. 18	2066	474	87	432
Rolls. Automatic release device for	C. Kuhlewind	627,936	June 27	3204	701	87	2299
Rolls. Guide for	W. Garrett	629,718	July 25	3281	765	88	693
Roller: *See* Antifriction-roller. Grain-roller. Blind spring-roller. Land-roller. Caster-roller. Shade-roller. Curtain-roller.							
Roller	R. J. C. Mitchell	627,958	June 27	3236	710	87	2306
Roller and harrow. Combined	N. Schwartz	639,697	Dec. 19	2792	643, 644	89	2450
Roller and pulverizer. Combined	A. Brouk	627,474	June 27	2355	518, 519	87	2128
Roller-clearer	L. W. Penney	617,904	Jan. 17	2012	448	86	431
Roller-mills, &c. Exhaust apparatus for	A. G. Mather	627,514	June 27	2423	533	87	2141
Rolling apparatus. Metal-	M. J. Loughran	625,575	May 23	2938	667	87	1333
Rolling beams, girders, &c. Apparatus for	H. Grey	632,181	Aug. 29	4553	1026, 1027, 1028	88	1679
Rolling black-plate	W. H. Donner	620,541	Feb. 28	3167	726	86	1480
Rolling copper forms. Machine for	C. F. Brooker	624,429	May 2	882	199, 200	87	871
Rolling flanged bars	A. Morrison	622,967	Apr. 11	1410	325	87	288
Rolling flanged plates	A. Morrison	622,966	Apr. 11	1409	324	87	287
Rolling gate	E. E. Gustin	622,890	Apr. 11	1281	295, 296	87	262
Rolling. Machine for cold-	F. G. Echols	631,159	Aug. 15	2667	603	88	1280
Rolling-machine indicator. Electric	A. P. Hine	638,333	Dec. 5	279	57	89	1919
Rolling metal	J. Guest	636,521	Nov. 7	514	113	89	1025
Rolling metal balls. Die for	H. M. Putnam	618,584	Jan. 31	3291	730	86	703
Rolling metal. Construction of rolls for	R. C. Stiefel and S. Trethewey	617,409	Jan. 10	1065	243	86	227
Rolling metal tubes. Machine for	G. Skogse	617,363	Jan. 10	961	221	86	207
Rolling-mill	H. Grey	635,381	Oct. 24	2593	601, 602, 603	89	561
Rolling-mill	H. Grey	635,382	Oct. 24	2605	603, 604	89	562
Rolling-mill	E. W. G. C. Hoffmann	622,801	Apr. 11	1109	257	87	230
Rolling-mill. Continuous	J. H. Palmer and J. H. Sheridan	638,984	Dec. 12	1475	338	89	2175
Roller-mill feed-board	R. J. F. Walker	636,873	Nov. 14	1227	265	89	1196
Rolling-mill feed-table	F. I. Freeman	617,328	Jan. 10	898	208, 209	86	194
Rolling-mill housing	G. Uhr	632,002	Aug. 29	4209	947	88	1612
Rolling mill. Seamless-tube-	J. A. Hampton and H. Keates	636,335	Nov. 7	177	39	89	957
Rolling-mill shears	P. D. O'Brien	618,285	Jan. 24	2726	604	86	581
Rolling platform	H. P. Johnson	630,235	Aug. 1	934	203, 204	88	906
Rolling sheet-metal cylinders. Machine for	J. H. Whittle and G. Layng	626,260	June 6	71	17	87	1628
Rolling sheet-metal ridge-strips. Machine for	G. D. Kimberly	626,617	June 6	706	163	87	1752
Rolling thin sheets of steel or iron in packs	E. Norton	632,879	Sept. 12	1292	297	88	1976
Rolling unsymmetrical flanged sections	J. Kennedy	623,479	Apr. 18	2358	542	87	492
Rolling-up machine	E. Hett	637,589	Nov. 21	2889	597	89	1562
Rolling-up or developing machine	E. Hett	637,587	Nov. 21	2884	596	89	1561
Roof	W. C. Bates	632,691	Sept. 12	924	215	88	1904
Roof	E. L. Pease	624,857	May 9	1671	379	87	1048
Roof-collar and vent-pipe connection	J. B. Manchester	627,433	June 20	2279	502	87	2098
Roof-fastening device. Slate-	C. A. Contant	623,988	May 2	62	14	87	714
Roof-flashing	A. C. Dyer	618,074	Jan. 24	2327	519	86	506
Roof for haystacks, &c. Separable portable	E. K. Clark	627,051	June 13	1554	340	87	1933
Roof. Stack-	J. F. Donovan	633,689	Sept. 26	2821	655	88	2300
Roofs without seams. Manufacturing	F. Gehre	625,723	May 23	3184	723	87	1381
Roofer's tool	J. R. Maxwell	630,387	Aug. 8	1264	276	88	985
Roofing	J. Blocher	633,984	Oct. 3	7	2	89	4
Roofing composition	E. J. Yetter	633,255	Sept. 19	2002		88	2128
Roofing fabric	R. J. Redick	624,976	May 16	1887	423	87	1107
Roofing fabric	R. J. Redick	632,825	Sept. 12	1179	270	88	1957
Roofing. Metal	H. O. Reese	631,092	Aug. 15	2559	578	88	1259
Roofing. Metallic	W. Heidt	626,006	May 30	3791	863	87	1516
Roofing. Metallic	J. S. Moyer	618,516	Jan. 31	3174	701	86	680

Alphabetical list of inventions—Continued.

Invention.	Name.	No.	Date.	Monthly volume. Spec.	Monthly volume. Dr'g.	Official Gazette. Vol.	Official Gazette. Page.
Roofing, paving, &c. Composition for	C. E. Anthony	617,706	Jan. 17	1607	------	86	351
Roofing-plate. Metallic	A. J. Cohen	622,417	Apr. 4	388	89	87	72
Roofing. Ready-made	G. D. Crabbs and W. H. Pendery	636,022	Oct. 31	3854	886	89	819
Roofing. Sheet-metal	H. O. Reese	638,064	Nov. 28	3867	813	89	1790
Roofing-sheets. Means for packing metallic	F. G. Caldwell	625,730	May 23	3206	729	87	1385
Roofing-tool	A. Danzer	620,426	Feb. 28	2952	677	86	1438
Root-cutter	O. E. Thompson	635,450	Oct. 24	2778	635	89	597
Rope-clamp	A. L. Anderson and C. M. Roland	630,837	Aug. 15	2078	469	88	1166
Rope-clamp	W. H. Bomm	623,130	Apr. 18	1728	400	87	364
Rope-clamp	J. T. and L. P. Lee	632,530	Sept. 5	592	135	88	1825
Rope-clamp	J. McEwen	631,938	Aug. 29	4087	917	88	1587
Rope-clamp	L. W. Sammis	623,744	Apr. 25	2817	646	87	597
Rope-clamp	J. G. Wardell	632,930	Sept. 12	1372	317	88	1992
Rope-controller	O. E. Osborne	637,820	Nov. 28	3414	713	89	1700
Ropes or cables. Machine for manufacturing	A. S. Hallidie	627,258	June 20	1924	423, 424	87	2027
Ropeway	W. Dusedau	626,783	June 13	1045	234	87	1836
Ropeway conveyer attachment	A. S. Hallidie	624,648	May 9	1281	286	87	970
Rossing-machine	H. Wolfe	632,979	Sept. 12	1448	336	88	2007
Rotary and folding chair	A. Hosmer	636,405	Nov. 7	297	67	89	981
Rotary cutter	G. D. Gillette	634,210	Oct. 3	426	109	89	89
Rotary cutter	G. D. Gillette	634,211	Oct. 3	428	109, 110	89	89
Rotary-cylinder engine	W. Lawrence	628,945	July 18	1872	434	88	401
Rotary drier	L. Grill	631,298	Aug. 22	2921	661, 662	88	1348
Rotary drier	J. Whiting and J. G. Bergquist	623,388	Apr. 18	2202	505, 506	87	460
Rotary engine	T. R. Almond	622,318	Apr. 4	212	48	87	40
Rotary engine	H. H. Ames	625,731	May 30	3211	730	87	1405
Rotary engine	W. W. Andrews	629,119	July 18	2191	508	88	465
Rotary engine	C. F. Bainter	638,375	Dec. 5	363	76	89	1935
Rotary engine	J. Baird	623,457	Apr. 18	2319	531, 532	87	485
Rotary engine	F. G. Bates	617,072	Jan. 3	411	100, 101	86	80
Rotary engine	E. Bennett	639,504	Dec. 19	2425	559, 560, 561	89	2377
Rotary engine	T. Berg	620,636	Mar. 7	159	33, 34	86	1533
Rotary engine	J. Bodam	626,216	June 6	4	1, 2	87	1615
Rotary engine	M. J. Bretherton	619,129	Feb. 7	631	135, 136	86	934
Rotary engine	R. E. Brewer	630,648	Aug. 8	1762	396, 397	88	1078
Rotary engine	H. A. Buck	639,659	Dec. 19	2708	623	89	2435
Rotary engine	J. J. Callihan	618,781	Jan. 31	3631	811	86	770
Rotary engine	J. J. Callihan	632,549	Sept. 5	637	148, 149	88	1832
Rotary engine	G. H. Carr	618,393	Jan. 31	2947	653	86	638
Rotary engine	W. L. Casaday	632,642	Sept. 5	779	180, 181	88	1862
Rotary engine	W. L. Casaday	638,173	Nov. 28	4093	863, 864	89	1832
Rotary engine	F. H. Cathcart	630,588	Aug. 8	1651	369, 370	88	1058
Rotary engine	F. H. Cathcart	630,590	Aug. 8	1655	370, 371, 372	88	1059
Rotary engine	C. Cleave	620,279	Feb. 28	2703	620	86	1391
Rotary engine	E. W. Collins	626,595	June 6	675	155, 156	87	1745
Rotary engine	E. P. Couture	638,910	Dec. 12	1344	306, 307	89	2149
Rotary engine	T. Croston	633,813	Sept. 26	3017	701	88	2341
Rotary engine	G. A. Culver	620,106	Feb. 28	2409	544	86	1334
Rotary engine	J. H. Darragh	637,986	Nov. 28	3718	783	89	1760
Rotary engine	J. Deckelmann	638,914	Dec. 12	1350	308	89	2150
Rotary engine	R. O. Dobbin	619,730	Feb. 21	1728	394	86	1190
Rotary engine	J. P. Doran	624,462	May 9	943	211, 212	87	906
Rotary engine	O. T. Earle	621,555	Mar. 21	1890	419, 420, 421	86	1891
Rotary engine	O. T. Earle	621,556	Mar. 21	1892	421	86	1892
Rotary engine	M. P. Elgen	617,724	Jan. 17	1643	369	86	359
Rotary engine	J. L. Farnes	632,404	Sept. 5	352	80	88	1775
Rotary engine	J. Fechtner	638,227	Dec. 5	33	8, 9, 10	89	1873
Rotary engine	C. V. Fite	635,849	Oct. 31	3516	809	89	753
Rotary engine	C. T. Fonda	625,328	May 23	2520	573	87	1252
Rotary engine	C. E. Forsyth	638,570	Dec. 5	716	152	89	2003
Rotary engine	J. H. Garner	628,086	July 4	234	53, 54	88	47
Rotary engine	M. A. Green	627,922	June 27	3173	695, 696	87	2293
Rotary engine	W. Haddock	625,950	May 30	3633	826, 827	87	1485
Rotary engine	F. J. Haeseler	633,449	Sept. 19	2361	556, 557	88	2197
Rotary engine	J. T. Hays and G. L. Depuy	630,693	Aug. 8	1832	413	88	1092
Rotary engine	B. T. Hinson	625,446	May 23	2719	618, 619	87	1289
Rotary engine	G. P. B. Hoyt	628,327	July 4	722	167	88	136
Rotary engine	G. W. Hunter	622,952	Apr. 11	1380	317, 318	87	282

Alphabetical list of inventions—Continued.

Invention.	Name.	No.	Date.	Monthly volume. Spec.	Monthly volume. Dr'g.	Official Gazette. Vol.	Official Gazette. Page.
Rotary engine	W. F. James	634,755	Oct. 10	1448	340	89	304
Rotary engine	P. Kahellek	634,002	Oct. 3	41	12	89	12
Rotary engine	J. L. Keil	629,297	July 18	2485	579, 580	88	518
Rotary engine	E. P. Kendall	621,822	Mar. 28	2388	534	86	2004
Rotary engine	J. S. Kingsland	625,689	May 23	3125	710, 711	87	1369
Rotary engine	G. E. Kirby and H. W. Crowther	632,816	Sept. 12	1163	266, 267	88	1953
Rotary engine	W. R. Mason	625,182	May 16	2237	509	87	1172
Rotary engine	A. G. McPherson and E. M. Laing	622,704	Apr. 11	950	219	87	200
Rotary engine	H. Migge	638,520	Dec. 5	631	131	89	1987
Rotary engine	C. E. Miller	636,829	Nov. 14	1141	245	89	1179
Rotary engine	E. H. Montgomery	638,349	Dec. 5	306	63, 64	89	1925
Rotary engine	W. Oldham	630,400	Aug. 8	1285	281, 282	88	989
Rotary engine	A. Oliver	622,013	Mar. 28	2751	621	86	2075
Rotary engine	W. A. Parker	628,960	July 18	1898	440, 441	88	407
Rotary engine	J. H. Parsons. (Reissue)	11,743	May 23	3208	729	87	1385
Rotary engine	J. W. Pickel and R. Snyder	625,799	May 30	3352	762, 763	87	1432
Rotary engine	J. W. Pickel and R. Snyder	625,800	May 30	3357	763	87	1432
Rotary engine	J. Putman	632,848	Sept. 12	1217	278, 279	88	1964
Rotary engine	J. Scott	626,870	June 13	1231	272	87	1870
Rotary engine	K. Seifried	632,542	Sept. 5	618	142	88	1830
Rotary engine	E. Seymour	622,718	Apr. 11	967	224, 225	87	203
Rotary engine	A. H. Shoemaker	628,418	July 4	871	204, 205	88	167
Rotary engine	J. Spence	621,721	Mar. 21	2185	491	86	1951
Rotary engine	J. Steen	631,882	Aug. 29	3992	893	88	1569
Rotary engine	S. W. Stewart	631,943	Aug. 29	4091	918	88	1588
Rotary engine	F. R. Strunk	619,801	Feb. 21	1868	426	86	1218
Rotary engine	A. Taylor	634,511	Oct. 10	1014	242, 243	89	220
Rotary engine	W. S. Tichenor and J. F. Williams	627,832	June 27	3010	657, 658	87	2258
Rotary engine	R. Toennes	632,073	Aug. 29	4342	976	88	1637
Rotary engine	M. Vay	628,566	July 11	1162	272, 273	88	244
Rotary engine	C. L. Weihe	623,750	Apr. 25	2825	647	87	598
Rotary engine	A. Widman and J. C. Baker	633,631	Sept. 26	2717	633	88	2279
Rotary engine	E. A. Wilcox	639,327	Dec. 19	2097	482	89	2311
Rotary engine	A. Wildermuth	625,820	May 30	3401	772	87	1441
Rotary engine	W. L. Wilson	621,193	Mar. 14	1223	268, 269	86	1751
Rotary engine	W. H. Wineland	623,936	Apr. 25	3214	740	87	673
Rotary engine	J. Yates	627,038	June 13	1530	334	87	1929
Rotary engine. Reversible	W. G. Florence and A. B. Trembley	627,332	June 20	2063	454, 455	87	2055
Rotary engine. Reversible	J. Jackson	624,814	May 9	1590	361	87	1033
Rotary engine. Reversible	C. W. Pratt	631,815	Aug. 29	3880	866	88	1547
Rotary furnace	E. H. Hurry and H. J. Seaman	628,940	July 18	1866	432	88	400
Rotary internal-combustion engine	J. W. and P. L. Tygard	619,004	Feb. 7	402	84	86	888
Rotary knife	W. L. Noble	630.094	Aug. 1	698	149	88	861
Rotary meter	S. A. Chesley	638,625	Dec. 5	828	178	89	2024
Rotary meter	I. Smith	638,073	Nov. 28	3882	817	89	1793
Rotary mill	G. S. Emerick	628,141	July 4	347	82, 83	88	70
Rotary motor	T. U. Gray and F. Bass	621,656	Mar. 21	2055	459, 460	86	1925
Rotary motor	G. E. Lash	637,135	Nov. 14	1762	378	89	1299
Rotary motor	B. W. Tienhoven	633,669	Sept. 26	2776	645	88	2291
Rotary motor. Reversible	J. Theemling	637,429	Nov. 21	2326	502	89	1426
Rotary motor with conjugate helices	A. Blot	631,691	Aug. 22	3632	818, 819	88	1491
Rotary power-engine	J. L. Piening	632,969	Sept. 12	1433	331	88	2004
Rotary reciprocating engine	M. F. Coomes and C. Rice	618,453	Jan. 31	3054	675	86	657
Rotary steam-engine	J. F. Cornish	633,570	Sept. 26	2585	606	88	2256
Rotary steam-engine	J. E. Hartwell	618,347	Jan. 24	2829	628, 629	86	600
Rotary steam-engine	F. Krüger	635,558	Oct. 24	2959	677	89	632
Rotary steam-engine	E. C. Lay and G. E. Toliver	631,169	Aug. 15	2686	607	88	1284
Rotary steam-engine	T. Nace	633,387	Sept. 19	2258	532	88	2137
Rotary steam-engine	W. I. Phifer	619,434	Feb. 14	1188	268, 269	86	1060
Rotary steam-engine	A. S. Piatt and E. E. Wolf	633,730	Sept. 26	2886	671, 672	88	2314
Rotary steam-engine	N. W. and W. P. Smith	632,928	Sept. 12	1368	315, 316	88	1991
Rotary steam motor or engine	A. Wahle	634,969	Oct. 17	1823	432	89	395
Rotating and braking mechanism for turrets, &c	J. Horne	630,228	Aug. 1	916	201	88	903
Rotative motor	V. Karavodine	633,138	Sept. 19	1766	417	88	2080
Rough-rounding and channeling machine	F. L. Alley	625,633	May 23	3038	692	87	1353
Roundabout	R. A. Grimoin-Sanson and A. J. Allard.	637,508	Nov. 21	2464	535	89	1452
Rounding and channeling machine	Z. T. French and W. C. Meyer	630,338	Aug. 8	1145	250	88	963
Router	R. Hegarty	637,463	Nov. 21	2385	516	89	1437
Routing-machine	F. Wesel	622,832	Apr. 11	1165	269, 270, 271	87	240
Routing-machine guide	F. Pearson and C. F. Ross	626,718	June 13	916	208	87	1810
Roving-machine	W. C. Peirce	617,511	Jan. 10	1229	280, 281	86	259
Roving-machine spindle-shafts. Yielding bearing for	W. V. Threlfall	639,000	Dec. 12	1514	347	89	2181

Alphabetical list of inventions—Continued.

Invention.	Name.	No.	Date.	Monthly volume.		Official Gazette.	
				Spec.	Dr'g.	Vol.	Page.
Roving-machines. Covering-plate for rails, bolsters, or steps in	W. V. Threlfall	639,001	Dec. 12	1515	347	89	2181
Roving-traverse mechanism	O. L. Owen	637,020	Nov. 14	1528	329	89	1255
Rowlock	F. Rheault	618,731	Jan. 31	3551	793	86	753
Rubber articles. Machine for forming	C. E. Longden	632,221	Aug. 29	4620	1041	88	1691
Rubber articles. Method of and machine for producing hollow	T. W. Morris	638,738	Dec. 12	1050	235	89	2090
Rubber ball	G. W. Wright	617,796	Jan. 17	1798	403	86	389
Rubber bathing-cap, &c., and making same	H. Lemmermann	637,136	Nov. 14	1763	378	89	1299
Rubber-cloth-finishing apparatus	F. A. Hodgman	630,540	Aug. 8	1572	351	88	1042
Rubber. Composition for treating decayed or other	M. Zingler	630,435	Aug. 8	1369	------	88	1003
Rubber compound	J. C. Petmecky	626,092	May 30	3955	------	87	1544
Rubber-dam holder	J. P. Carmichael	628,923	July 18	1835	427	88	395
Rubber from vulcanized-rubber waste. Reclaiming	A. H. Marks	635,141	Oct. 17	2167	505	89	463
Rubber, gutta-percha, &c. Treating india-	C. Répin	632,022	Aug. 29	4248	------	88	1619
Rubber heel	C. M. Berry	634,680	Oct. 10	1308	308	89	278
Rubber or other endless bands or strips. Manufacturing india-	J. M. MacLulich	622,774	Apr. 11	1061	246	87	221
Rubber or other gums. Manufacture of	E. Garnier	621,060	Mar. 14	991	------	86	1705
Rubber roll	G. P. Dodge	620,286	Feb. 28	2724	624	86	1395
Rubber substitute or artificial rubber	O. Lugo	639,926	Dec. 26	3209	------	89	2552
Rubber substitutes. Manufacture of	O. Lugo	639,927	Dec. 26	3210	------	89	2552
Rubber-tired wheel	F. W. Huestis	624,940	May 16	1829	410	87	1095
Rubber-tired wheel	R. Mulholland	635,385	Oct. 24	2621	605	89	566
Rubber-tired wheel	T. J. Reid	623,034	Apr. 11	1529	354	87	312
Rubber. Treatment of old or waste vulcanized	C. Heinzerling	627,689	June 27	2760	------	87	2208
Rubber tubes. Device for turning	W. A. Pratt	620,356	Feb. 28	2846	651	86	1418
Rubber tubing. Die for molding	J. J. Voorhees and W. W. Ainsworth	630,080	Aug. 1	673	144	88	856
Rudder	F. Baldt	631,268	Aug. 22	2871	649	88	1339
Rudder-brake. Liquid-balance	J. Christensen	630,973	Aug. 15	2332	531	88	1215
Rudder-controlling mechanism. Electrically-operated	R. B. Painton	624,531	May 9	1079	242	87	931
Rudder-hinge	C. S. Hamilton	628,710	July 11	1445	336	88	301
Rudder-locking mechanism	G. H. Doyle, Jr	626,370	June 6	308	69	87	1672
Rug-material-raveling machine	G. P. and H. J. Schlemmer	619,697	Feb. 14	1652	379	86	1150
Rug. Traveling-	L. Maurice	620,945	Mar. 14	760	166	86	1662
Rug. Woven	H. Hardwick	640,132	Dec. 26	3581	824	89	2628
Rule	J. H. Franklin	636,972	Nov. 14	1426	305	89	1235
Rule and level. Plumb	J. Morrison	618,254	Jan. 24	2672	592	86	670
Rule. Combination-	J. F. O'Neil	630,100	Aug. 1	706	151	88	863
Rule gage. Proportional slide-	A. D. Linn	618,888	Feb. 7	125	27	86	829
Rule. Scoring-	C. A. Meadows	637,808	Nov. 28	3378	708	89	1692
Rule. Slide-	W. L. E. Keuffel	621,348	Mar. 21	1511	336	86	1820
Rule. Staircase-	E. Walter	634,782	Oct. 10	1482	349	89	311
Ruler	J. T. Glascock	632,258	Sept. 5	90	20	88	1724
Ruler	L. B. Jones	639,814	Dec. 26	3018	695	89	2513
Ruler	J. A. Mangold	621,529	Mar. 21	1837	408	86	1881
Ruler	M. Rosenberg	637,832	Nov. 28	3434	718	89	1704
Ruler and spacer	S. C. La Due	616,943	Jan. 3	156	35	86	31
Ruler. Desk-	M. F. Connett	628,072	July 4	209	47	88	42
Ruler for drawing curves. Flexible and adjustable	G. P. Clark	632,240	Sept. 5	21	6	88	1713
Ruling-machine	C. Burrows	619,717	Feb. 21	1700	389	86	1185
Ruling-machine	A. Cooper	621,328	Mar. 21	1478	328	86	1814
Ruling-machine	H. C. Gibbs	621,064	Mar. 14	997	217	86	1706
Ruling-machine	W. O. Hickok, 3d, and A. Cooper	619,411	Feb. 14	1139	257, 258	86	1051
Ruling-machine	F. H. Van Loozen	619,241	Feb. 7	834	183, 184	86	976
Running-board. Vehicle	J. B. Thacher	634,378	Oct. 3	777	185	89	154
Running-gear	O. Ahlbury	620,210	Feb. 28	2596	590	86	1369
Running-gear	A. W. Ogden	628,230	July 4	505	122	88	101
Running-gear	G. F. Uebel	627,833	June 27	3011	658	87	2258
Running-planks. Device for engaging ends of	W. T. Morgan	631,900	Aug. 29	4015	899	88	1574
Rust. Composition for removing	V. C. West	637,910	Nov. 28	3588	------	89	1736
Saccharine solutions. Apparatus for treating	H. P. Dyer	634,233	Oct. 3	487	122	89	99
Sack, bag, &c	A. M. Bates	623,198	Apr. 18	1860	426	87	390
Sack, bag, &c	A. M. Bates	623,199	Apr. 18	1862	426	87	390
Sack for flour, sugar, &c. Cloth	A. F. Bemis	625,012	May 16	1938	435	87	1117
Sack-holder	C. L. Buxton	621,765	Mar. 21	2276	513	86	1968
Sack-holder	F. H. Gilbert	634,334	Oct. 3	705	168	89	142
Sack-holder	E. Monden	634,760	Oct. 10	1454	342	89	305
Sack-holder	J. Wester	639,120	Dec. 12	1709	394	89	2219
Sack holder or supporter	J. W. Winegarden	638,676	Dec. 5	932	208	89	2049
Sack-lifter	F. G. and E. C. Broughton	640,088	Dec. 26	3502	803	89	2611
Sad-iron	J. V. Eves, W. D. and L. F. O'Brien	621,235	Mar. 14	1304	288, 289	86	1767
Sad-iron	A. Meyer	629,801	Aug. 1	73	18	88	735
Sad-iron	J. A. Minturn	636,346	Nov. 7	193	43	89	960
Sad-iron	J. W. Pettijohn and J. Glenn	633,659	Sept. 26	2756	641	88	2288
Sad-iron. Core-heating	H. P. Carver	616,896	Jan. 3	58	11	86	13
Sad-iron. Gas	H. Gefrorer	621,062	Mar. 14	994	216	86	1705
Sad-iron. Gas-heating	E. Stern	628,235	July 4	511	124	88	102
Sad-iron. Gas-heating	E. Stern	638,405	Dec. 5	419	87	89	1945
Sad-iron heater	T. S. Wiles	632,545	Sept. 5	630	147	88	1831
Sad-iron holder	L. Weiss and A. B. Frauenhar	623,055	Apr. 11	1559	360	87	318
Sad-iron. Self-heating	A. E. Cordray	621,035	Mar. 14	956	208	86	1699
Sad-iron. Self-heating	F. G. Lawrence	624,054	May 2	190	41	87	739
Sad-iron. Self-heating	W. Pitt	636,059	Oct. 31	3927	901	89	835
Sad-iron-waxing device	H. A. Kean	639,924	Dec. 26	3206	736	89	2551
Sad-irons. Vapor-burner for self-heating	W. Pitt	636,060	Oct. 31	3930	901	89	835
Saddle	E. E. Mallory and C. S. Stoner	639,748	Dec. 26	2889	666	89	2488
Saddle	H. A. Perry	630,266	Aug. 1	979	215, 216	88	916
Saddle clamping attachment	T. J. Biggs	628,743	July 11	1503	348	88	314
Saddle-clip	C. F. Hollenbeck	627,461	June 20	2327	513	87	2106
Saddle. Gig-	C. A. White	629,734	July 25	3305	772	88	698

Alphabetical list of inventions—Continued.

Invention.	Name.	No.	Date.	Monthly volume.		Official Gazette.	
				Spec.	Dr'g.	Vol.	Page.
Saddle. Harness-	W. O. Campbell and W. H. Mickey	633,503	Sept. 19	2443	576	88	2213
Saddle. Harness-	J. B. Tener	631,136	Aug. 15	2627	594	88	1272
Saddle jockey-plate. Harness-	G. E. Rounds	636,851	Nov. 14	1175	354	89	1186
Saddle-pommel. Detachable	P. W. Peters	623,178	Apr. 18	1826	418	87	383
Saddle-post clamp	W. C. Brown	630,176	Aug. 1	836	180	88	888
Saddle rein-holding attachment. Harness-	J. W. Harshman	617,960	Jan. 17	2098	470	86	449
Saddle. Riding-	M. A. Eatman	633,236	Sept. 19	1964	461	88	2121
Saddle-support. Adjustable	C. S. Smith	634,096	Oct. 3	198	49	89	43
Saddletree. Harness-	C. J. Cooper	617,876	Jan. 17	1950	437	86	419
Safe	P. M. Crawford	635,666	Oct. 24	3152	726	89	669
Safe	G. L. Damon	635,668	Oct. 24	3156	727	89	670
Safe	F. S. Holmes	620,073	Feb. 21	2340	531	86	1307
Safe bolt mechanism	W. H. Taylor	638,892	Dec. 12	1309	298	89	2141
Safe-boltwork	W. H. Hollar and A. Kennedy	621,341	Mar. 21	1500	332 333	86	1818
Safe-boltwork	M. Mosler	621,122	Mar. 14	1103	240	86	1727
Safe. Burglar-proof	W. H. Hollar	621,340	Mar. 21	1496	331 332	86	1817
Safe-lock	C. Eyster	636,325	Nov. 7	165	36, 37	89	954
Safe or vault	C. Eyster	623,145	Apr. 18	1763	405	87	371
Safe or vault protection. Pneumatic electric	F. C. Smith	623,689	Apr. 25	2739	628	87	582
Safe-protection system. Electrical	H. F. Freed	626,684	June 13	851	193	87	1798
Safe. Screw-door	C. E. Blechschmidt	622,753	Apr. 11	1024	238	87	215
Safe. Screw-door	C. E. Blechschmidt	629,764	Aug. 1	10	3	88	723
Safe. Screw-door	C. E. Blechschmidt	635,291	Oct. 24	2427	566	89	529
Safety appliance	F. L. Ellingwood	623,078	Apr. 11	1599	368 369	87	326
Safety appliance and device for operating same	F. L. Ellingwood	623,080	Apr. 11	1605	369 370	87	327
Safety-elevator	G. Schulze	631,130	Aug. 15	2618	591	88	1270
Safety-hook	A. J. Curtis	621,295	Mar. 14	1413	313	86	1788
Safety-hook	W. Martindale	630,064	Aug. 1	648	140	88	851
Safety-hook	W. Miller	633,099	Sept. 12	1684	396	88	2055
Safety-pin	G. L. Bradshaw	633,304	Sept. 19	2079	487	88	2143
Safety-pin	F. T. Clark	628,598	July 11	1211	283	88	254
Safety-pin	I. Innes	619,756	Feb. 21	1762	404	86	1196
Safety-pin	R. Shedenhelm	624,387	May 2	808	181	87	855
Safety-pin	C. C. Vilas	625,994	May 30	3728	845	87	1504
Safety-pin for scarfs, &c	J. E. Fuller	617,091	Jan. 3	439	106	86	85
Sail	J. Duthie	640,116	Dec. 26	3556	817 818	89	2623
Sail for canoes, &c. Self-reefing	L. A. Kimball	637,619	Nov. 21	3045	629	89	1606
Sail-reefing device	G. Achterberg	639,916	Dec. 26	3192	733	89	2548
Sails. Reefing apparatus for fore-and-aft	S. G. Dresser	630,038	Aug. 1	591	129	88	840
Salary-recorder	A. R. Boynton	617,557	Jan. 10	1323	298	86	277
Sales-pad. Manifolding	G. C. Shoup and W. N. Boller	638,288	Dec. 5	196	41	89	1904
Sales-recorder. Manual	A. C. Hough	618,034	Jan. 17	2231	497	86	473
Saligenin compound and making same	L. Sell	630,522	Aug. 8	1535	------	88	1035
Saline solutions. Process of and apparatus for electrolytic decomposition of	E. Baker	636,234	Nov. 7	3	1, 2	89	925
Salol. Manufacturing	H. C. Fehrlin	622,456	Apr. 4	458	------	87	85
Salt-cellar	H. Binley	618,833	Feb. 7	28	6	86	809
Salt-cellar	E. A. Houston	633,593	Sept. 26	2643	617	88	2265
Salt-cellar	C. Lawton	617,490	Jan. 10	1197	272	86	252
Salts. Process of and apparatus for reducing and oxidizing	T. A. Uehling	620,683	Mar. 7	258	53	86	1552
Sample-case	C. J. Stravlo	630,129	Aug. 1	751	162	88	872
Sample-case. Merchandise	G. R. Wyman	621,732	Mar. 21	2207	498	86	1955
Sample-holder	T. D. and J. S. Bendure	633,781	Sept. 26	2974	690	88	2331
Sample pad of textile fabrics	V. Ruda	634,673	Oct. 10	1293	305	89	275
Sampler	G. Betzonick	632,830	Sept. 12	1188	271	88	1959
Sand-band	W. A. Eddy	635,467	Oct. 24	2808	641	89	604
Sand-band	W. H. Holden	617,987	Jan. 17	2143	478	86	456
Sand-band	C. Hotz	617,746	Jan. 17	1679	378	86	367
Sand-band	J. Mallon and O. Crepeau	619,082	Feb. 7	539	113	86	915
Sand beaches. Means for producing	W. L. Averill	618,319	Jan. 24	2783	617	86	592
Sand-blast	J. M. Newhouse	636,279	Nov. 7	100	22	89	942
Sand-blast machine	G. S. Slocum	636,460	Nov. 7	388	87	89	999
Sand-blast machine for operating on wood	H. Buyten	626,749	June 13	968	219	87	1820
Sand-cap and axle-collar. Combined	S. F. Welch	628,972	July 18	1916	446	88	410
Sand-drier	T. B. Howe	633,005	Sept. 12	1490	346 347	88	2016
Sand-guard	C. C. Lower	627,649	June 27	2690	590	87	2195
Sand-screen	C. E. Smith	619,443	Feb. 14	1201	272	86	1062
Sand-screen or strainer for fluids	P. Mueller	634,953	Oct. 17	1781	423	89	386
Sand-shoveler	J. E. Johnson, Jr	617,506	Jan. 10	1220	277	86	257
Sand washer, drainer, and elevator	F. R. Reed	633,040	Sept. 12	1557	362	88	2028
Sands or tailings while under treatment by solvents. Means for mixing and aerating	W. Duncan	639,540	Dec. 19	2486	574	89	2389
Sander for rolling-stock	J. B. Wilson, Jr	633,406	Sept. 19	2293	539	88	2184
Sanding-machine	M. V. B. Howe	635,777	Oct. 31	3376	780	89	727
Sandpaper	W. Black	624,160	May 2	412	84	87	778
Sandpapering-machine	A. C. De Wolfe	617,233	Jan. 3	710	165	86	139
Sandpapering-machine	A. A. Pelton	618,724	Jan. 31	3541	791	86	751
Sanitary appliance	A. O'Brien	618,284	Jan. 24	2725	604	86	581
Sanitary appliance, commode, &c	D. K. Osbourne	638,269	Dec. 5	125	28, 29	89	1890
Sanitary appliance, commode, &c	D. K. Osbourne	638,270	Dec. 5	127	29	89	1890
Sanitary closet	H. H. Kendrick	620,039	Feb. 21	2283	517 518	86	1296
Sap-spout and cover	E. J. Tebbetts	633,224	Sept. 19	1947	457	88	2117
Sash and blind lock	E. J. Drexler	633,436	Sept. 19	2341	552	88	2194
Sash and frame. Metal window	C. McSherry	631,529	Aug. 22	3344	760 761	88	1433
Sash-balance	M. Barber and L. F. Kramer	637,545	Nov. 21	2540	550	89	1467
Sash-balance	G. Barnes	639,500	Dec. 19	2420	558	89	2376
Sash-balance	Z. M. Lindley	616,947	Jan. 3	161	36	86	32

Alphabetical list of inventions—Continued.

Invention.	Name.	No.	Date.	Monthly volume. Spec.	Monthly volume. Drg.	Official Gazette. Vol.	Official Gazette. Page.
Sash-balance	D. W. Lloyd	630,461	Aug. 8	1425	319	88	1014
Sash-balance	F. J. Lowery and F. E. Billings	628,341	July 4	746	172	88	143
Sash-balance	J. A. Manahan	625,580	May 23	2947	670	87	1335
Sash-balance	J. H. McKernan	625,054	May 16	2016	454	87	1132
Sash balance and lock	F. W. Hironimus and R. A. Harness	619,571	Feb. 14	1406	323	86	1103
Sash-balance. Spring	M. Mulder	637,402	Nov. 21	2286	491	89	1418
Sash balance. Window-	J. M. Malloy	635,332	Oct. 24	2495	578 579 580	89	541
Sash-center	R. T. Teakle	632,329	Sept. 5	223	52	88	1751
Sash-coping machine	J. Skinner	630,994	Aug. 15	2365	538 539	88	1221
Sash-cord fastener	R. Bohrisch	632,864	Sept. 12	1242	284	88	1969
Sash-cord holder	L. Kuhn	627,126	June 20	1692	371	87	1980
Sash-fastener	W. H. Akens	629,284	July 18	2464	573	88	514
Sash-fastener	M. Angel	619,461	Feb. 14	1226	279	86	1068
Sash-fastener	A. A. Barr	638,492	Dec. 5	588	121	89	1978
Sash-fastener	W. C. Belcher	639,843	Dec. 26	3071	705	89	2523
Sash-fastener	W. H. Blakemore	617,669	Jan. 10	1528	347	86	317
Sash-fastener	W. H. Bradley	627,096	June 20	1636	358	87	1969
Sash-fastener	L. F. Caldwell	621,600	Mar. 21	1957	438	86	1905
Sash-fastener	E. M. Comstock	629,772	Aug. 1	20	6	88	725
Sash-fastener	A. Forin	639,164	Dec. 12	1773	410	89	2232
Sash-fastener	E. Fuller	624,783	May 9	1519	346	87	1019
Sash-fastener	A. W. Getchell	632,217	Aug. 29	4615	1040	88	1690
Sash-fastener	J. W. Howland	621,569	Mar. 21	1907	426	86	1895
Sash-fastener	S. J. Johnston	631,014	Aug. 15	2404	545	88	1229
Sash-fastener	J. Joyce	632,187	Aug. 29	4574	1030	88	1683
Sash-fastener	F. L. Keith	617,399	Jan. 10	1043	237	86	222
Sash-fastener	G. C. Locklin and B. M. Fox	621,578	Mar. 21	1921	429	86	1898
Sash-fastener	G. W. Manuel	639,419	Dec. 19	2281	527	89	2347
Sash-fastener	G. R. McChesney	631,964	Aug. 29	4131	930	88	1596
Sash-fastener	D. P. McQuiston	638,264	Dec. 5	113	26	89	1888
Sash-fastener	G. A. Seely	627,943	June 27	3214	704	87	2301
Sash-fastener	J. F. Smith	619,444	Feb. 14	1202	273	86	1063
Sash-fastener	T. B. Stevens	622,903	Apr. 11	1301	299	87	265
Sash-fastener	M. P. Van Ryzin	620,199	Feb. 28	2577	586	86	1366
Sash-fastener	H. G. Voight	624,412	May 2	851	192	87	864
Sash-fastener	J. W. Wilson	630,960	Aug. 15	2301	523	88	1209
Sash-fastening device. Window-	A. H. Smith	635,982	Oct. 31	3780	871	89	805
Sash fastening. Window-	E. Johnstone and E. S. Ross	618,273	Jan. 24	2704	600	86	576
Sash for purposes of ventilation and fastening. Window-	E. L. Evens	633,129	Sept. 19	1752	413	88	2078
Sash hanger. Storm-	H. E. Willer	617,211	Jan. 3	663	154	86	129
Sash-holder	A. T. Johnson	617,339	Jan. 10	927	214	86	200
Sash-holder	J. L. Kimball	639,058	Dec. 12	1592	366	89	2196
Sash-holder	P. Marshall	616,949	Jan. 3	163	37	86	33
Sash-holder	S. A. Morrow and J. C. Halcom	633,467	Sept. 19	2388	562	88	2203
Sash-holder	O. H. Myrick	635,339	Oct. 24	2503	581	89	543
Sash-holder	H. Pracht	624,243	May 2	555	118	87	805
Sash-holder	W. H. Stevens	622,828	Apr. 11	1156	267	87	238
Sash-holder	H. R. Swartwood	633,924	Sept. 26	3209	747	88	2379
Sash-holder	J. Weathers	623,749	Apr. 25	2824	647	87	598
Sash holder and fastener	A. D. Goodwin	631,254	Aug. 15	2840	641	88	1316
Sash holder and fastener	A. P. Guynes and E. A. Flores	629,679	July 25	3208	748	88	680
Sash holder and fastener	J. Pennie	638,882	Dec. 12	1295	294	89	2138
Sash holder and fastener	F. Yates	633,937	Sept. 26	3225	752	88	2381
Sash holder and lock	R. M. Chance	619,939	Feb. 21	2102	477	86	1262
Sash holder. Window-	F. Allen	638,617	Dec. 5	813	175	89	2021
Sash-holding bracket. Window-	J. I. Brown	632,510	Sept. 5	542	126	88	1814
Sash-lift	J. H. Dickerson	623,890	Apr. 25	3134	722	87	658
Sash lift and lock	D. Gardner	634,332	Oct. 3	698	167	89	140
Sash-lifter	R. Washburn	639,321	Dec. 19	2085	479	89	2309
Sash lifter. Skylight-	W. H. Sauers	624,874	May 9	1703	385	87	1054
Sash-lock	J. Blasius	629,147	July 18	2243	520	88	474
Sash-lock	H. Bliss	617,630	Jan. 10	1457	332	86	303
Sash-lock	A. R. Fergusson	639,546	Dec. 19	2506	578	89	2393
Sash-lock	W. P. Gelabert	617,330	Jan. 10	901	209	86	195
Sash-lock	A. P. Heidt	634,213	Oct. 3	431	110	89	90
Sash-lock	F. H. Knight	629,261	July 18	2429	562	88	507
Sash-lock	F. B. Koues	618,471	Jan. 31	3080	682	86	662
Sash-lock	P. McCauley	636,729	Nov. 7	912	202	89	1109
Sash-lock	J. H. Metz	637,755	Nov. 21	3294	688	89	1656
Sash-lock	J. L. Oefinger	634,020	Oct. 3	69	18	89	18
Sash-lock	G. E. and L. Parker	632,140	Aug. 29	4474	1007	88	1665
Sash-lock	J. R. Payson	623,620	Apr. 25	2620	598	87	559
Sash-lock	A. Rosenkranz	629,613	July 25	3101	722	88	659
Sash-lock	T. B. Stevens	617,131	Jan. 3	524	125	86	102
Sash-lock	C. E. Stone	635,449	Oct. 24	2775	634	89	597
Sash-lock and alarm	W. Madison	617,989	Jan. 17	2145	478 479	86	457
Sash lock. Window-	W. A. Hawthorne	628,267	July 4	588	139	88	114
Sash lock. Window-	J. R. Oakley	626,503	June 6	532	123	87	1717
Sash-locking device	D. L. Long	630,462	Aug. 8	1426	319	88	1014
Sash-operating mechanism	G. A. Ohl	626,030	May 30	3843	872	87	1524
Sash-operator	H. B. Sargent	618,961	Feb. 7	299	64	86	869
Sash pull. Window-	R. F. Corneil	639,151	Dec. 12	1751	405	89	2227
Sash. Reversible window-	A. and A. Iske	630,508	Aug. 8	1504	336	88	1029
Sash. Slidable and swinging window-	B. Hausmann	632,411	Sept. 5	361	82	88	1777
Sash. Slidable and swinging window-	B. Hausmann	635,437	Oct. 24	2752	630	89	591
Sash. Swinging window-	A. Weingaertner and J. L. Shumate	634,384	Oct. 3	785	188	89	156
Sash temporary support. Window-	T. O'Shea	634,308	Oct. 3	644	157	89	130
Sash. Window-	W. A. Davis, G. S. Idell, and E. E. Davis.	628,303	July 4	667	156	88	129
Sash. Window-	J. R. Engqvst	617,482	Jan. 10	1187	270	86	250
Sash. Window-	J. C. Fleming	620,293	Feb. 28	2733	626	86	1397

Alphabetical list of inventions—Continued.

Invention.	Name.	No.	Date.	Monthly volume.		Official Gazette.	
				Spec.	Drg.	Vol.	Page.
Sash. Window-	J. C. Fleming	620,296	Feb. 28	2738	627	86	1398
Sash. Window-	J. A. Golden	623,005	Apr. 11	1481	342, 343	87	302
Sash. Window-	W. W. Newcomb	619,780	Feb. 21	1821	416	86	1209
Sash. Window-	G. T. Soper	639,106	Dec. 12	1684	389	89	2214
Sash. Window-	E. M. Squire	628,865	July 11	1718	401	88	354
Sash. Window-	C. D. Tabor	621,953	Mar. 28	2636	594	86	2051
Sash. Window-	D. J. Waugh	632,768	Sept. 12	1069	247	88	1934
Sash worker. Window-	C. H. Strauss	621,174	Mar. 14	1194	260	86	1746
Sashes. Antirattler for window-	J. H. Banzhof	636,939	Nov. 14	1372	292	89	1224
Satchel	R. F. Kleeman	621,824	Mar. 28	2391	535	86	2005
Satchel	H. Schloerb	623,338	Apr. 18	2113	485	87	442
Saucepan	L. B. Wismer	638,307	Dec. 5	229	47	89	1910
Sausage-casings. Arranging and handling	C. G. Schmidt	625,704	May 23	3154	716, 717	87	1375
Sausage-linking machine	C. E. Avery	639,648	Dec. 19	2690	617, 618	89	2431
Sausage-stuffing machine	H. W. Smouse	636,010	Oct. 31	3833	881	89	815
Sausages, &c. Machine for slicing German	W. A. Van Berkel	628,742	July 11	1499	348	88	313
Sausages, &c. Machine for slicing German	W. A. Van Berkel	635,225	Oct. 17	2306	537, 538	89	489
Saw	B. S. Atwood	619,530	Feb. 14	1342	308	86	1092
Saw	C. Fosby	621,915	Mar. 28	2569	579	86	2040
Saw	J. Guedel	627,113	June 20	1667	364	87	1975
Saw	J. H. Jewett	630,234	Aug. 1	931	203	88	906
Saw	W. B. Prouty	622,536	Apr. 4	639	150	87	121
Saw attachment. Edging or ripping	E. C. Mershon	635,107	Oct. 17	2091	491	89	449
Saw. Bench hack-	H. E. Goodell and H. D. Lanfair	627,183	June 20	1787	392	87	1999
Sawbuck	H. Mitchell	628,015	July 4	106	22	88	22
Saw. Buck-	A. C. Wickham	632.078	Aug. 29	4350	978	88	1638
Saw. Buck-	P. Woodring	623,588	Apr. 25	2572	589	87	551
Saw. Butcher's	G. Nusser	617,178	Jan. 3	606	142	86	119
Saw. Circular	G. Rowe and J. Trunnel	635,509	Oct. 24	2875	656	89	616
Saw. Circular	G. Wagner	631,684	Aug. 22	3624	816	88	1489
Saw. Circular shingle-	S. T. Johnson	622,954	Apr. 11	1386	319	87	283
Saw-clamp	R. S. Brown	632,694	Sept. 12	929	216	88	1905
Saw-clamp	H. P. Schofield	620,255	Feb. 28	2671	612	86	1384
Saw-clamp and filing-guide	C. B. Winchell	622,095	Mar. 28	2886	651	86	2101
Saw. Crosscut-	M. J. Clark	631,153	Aug. 15	2655	601	88	1278
Saw cutting-off machine. Cold-	W. H. Lucas	630,721	Aug. 8	1874	423, 424	88	1101
Saw. Drag-	L. Phillipps	622,709	Apr. 11	957	221	87	201
Saw dresser. Circular-	H. L. Bee	619,533	Feb. 14	1345	309	86	1092
Saw-filing device	S. P. Gudmundson	635,476	Oct. 24	2822	644	89	606
Saw-filing machine	J. F. Cornish	630,288	Aug. 1	1022	225, 226	88	924
Saw-filing machine	S. W. Gutridge	628,625	July 11	1273	296	88	267
Saw frame. Adjustable hack-	F. C. Hawkes	637,462	Nov. 21	2384	516	89	1437
Saw frame. Hack-	J. P. Noonan	623,685	Apr. 25	2731	626	87	581
Saw-gage	J. Brown	633,420	Sept. 19	2318	546	88	2189
Saw gage. Rip-	F. L. Loetz	619,770	Feb. 21	1792	411	86	1202
Saw-grinding machine	C. A. Alden and M. D. Pratt	626,451	June 6	436	103	87	1698
Saw-grinding machine. Automatic	J. McCarthy	630,551	Aug. 8	1587	354	88	1045
Saw-guard	F. A. Eastman	617,239	Jan. 3	717	167	86	140
Saw guard. Circular-	J. Anderson	625,310	May 23	2481	563	87	1244
Saw guard or shield. Circular-	A. Cook	640,095	Dec. 26	3513	806, 807	89	2614
Saw-guide	F. J. Drake	634,206	Oct. 3	416	105, 106	89	86
Saw-guide	C. Palmleaf	626,295	June 6	134	34	87	1639
Saw-guide	J. A. Leaf	639,411	Dec. 19	2268	523	89	2345
Saw-guide. Adjustable	J. C. Fox and M. W. Meredith	638,049	Nov. 28	3847	808	89	1785
Saw guide. Band-	F. J. Perkins	639,280	Dec. 19	2002	461	89	2292
Saw guide. Band-	H. Vedder	623,446	Apr. 18	2301	527	87	481
Saw-guide for sawing material for forming miter-joints.	C. O. Seavey	622,190	Mar. 28	3072	696	86	2139
Saw. Hack-	E. E. Euchenhofer	626,531	June 6	572	132, 133	87	1725
Saw. Hand-	E. J. Hicks	616,927	Jan. 3	121	27	86	25
Saw. Hand-	E. J. Hicks	627,615	June 27	2632	578	87	2183
Saw. Hand-	W. A. Kindt	619,079	Feb. 7	534	112	86	914
Saw-handle	C. W. Byham	624,292	May 2	637	139	87	820
Saw-handle	F. Hornqvist	622,362	Apr. 4	283	65	87	54
Saw-handle	W. B. Prouty	617,769	Jan. 17	1727	387	86	374
Saw-handle	E. B. Olson	635,973	Oct. 31	3759	867	89	800
Saw-handle	E. B. Olson	638,268	Dec. 5	124	28	89	1889
Saw-handle. Detachable	J. M. Mariner	637,880	Nov. 28	3536	741	89	1725
Saw handle. Hand-	E. J. Hicks	637,257	Nov. 21	1998	428	89	1359
Saw-horse	O. Barnett	639,501	Dec. 19	2421	559	89	2376
Saw-jointer	E. J. Hicks	624,332	May 2	713	158	87	837
Saw machine. Circular-	F. A. Humphrey	623,786	Apr. 25	2929	669, 670, 671	87	619
Saw-machine-table guide	F. A. Humphrey	623,156	Apr. 18	1789	410, 411	87	377
Sawmill	F. S. Farr	618,653	Jan. 31	3420	762	86	728
Sawmill	F. W. Stroh and J. M. McIntosh	617,784	Jan. 17	1772	397	86	383
Saw mill. Band-	E. E. Fitzgerald	629,849	Aug. 1	172	40, 41	88	755
Saw mill. Band-	A. G. Lawrence	619,490	Feb. 14	1275	292	86	1078
Sawmill-carriage	N. Shaw	624,554	May 9	1122	252, 253	87	940
Sawmill-carriage	N. Shaw	627,539	June 27	2475	544, 545	87	2152
Sawmill-carriage	A. J. West	639,835	Dec. 26	3048	701, 702	89	2519
Sawmill-carriage buffer	C. E. Clark	638,213	Dec. 5	11	4	89	1869

Alphabetical list of inventions—Continued.

Invention.	Name.	No.	Date.	Monthly volume. Spec.	Monthly volume. Dr'g.	Official Gazette. Vol.	Official Gazette. Page.
Sawmill head-blocks. Wing for knees on	B. Brink	619,130	Feb. 7	634	136, 137	86	935
Sawmill set-works	R. F. Barker	633,498	Sept. 19	2436	574	88	2311
Sawmill steam set-works	M. Corry and R. F. Barker. (Reissue.)	11,732	Apr. 11	1714	396	87	347
Sawmills. Dust-conveying attachment for	M. L. Brown	631,615	Aug. 22	3507	790	88	1466
Saw-plates. Repairing fractures in	J. Scherer	632,281	Sept. 5	145	33	88	1736
Saw. Scroll-	A. Jones	617,440	Jan. 10	1120	256	86	236
Saw-set	N. J. Campbell	629,151	July 18	2250	521	88	475
Saw-set	F. Hanna	640,131	Dec. 26	3581	824	89	2628
Saw-set	F. Hixson	623,544	Apr. 25	2486	571	87	535
Saw-set	M. Odgers	636,168	Oct. 31	4148	951	89	879
Saw-set	J. H. Stuke	617,612	Jan. 10	1428	325	86	297
Saw-set	J. C. Taylor and E. C. Wilson	625,477	May 23	2765	629	87	1298
Saw-set	W. W. Wilson	633,936	Sept. 26	3224	751	88	2381
Saw-set. Adjustable	C. F. Anderson	637,063	Nov. 14	1607	347	89	1271
Saw-set, jointer, and wrench	E. Noe	626,767	June 13	1003	226	87	1827
Saw setting and jointing machine	M. P. Mahar	633,725	Sept. 26	2881	669	88	2312
Saw-setting device	W. G. Rogers	622,170	Mar. 28	3043	688	86	2133
Saw-setting device	M. E. Shaw	638,287	Dec. 5	195	41	89	1903
Saw-setting machine	G. W. Kent	616,935	Jan. 3	142	32	86	29
Saw-setting machine	P. Sicotte	622,086	Mar. 28	2865	645, 646	86	2097
Saw-setting machine. Band-	P. Sicotte	620,856	Mar. 7	596	129	86	1620
Saw-sharpening machine	L. L. Filstrup. (Reissue)	11,733	Apr. 11	1716	397	87	347
Saw-sharpening machine	L. L. Filstrup	628,655	July 11	1354	316	88	282
Saw-sharpening machine	W. R. Morris	622,964	Apr. 11	1407	323, 324	87	287
Saw-swaging device	D. C. Schlabach	633,704	Sept. 26	2843	661	88	2305
Saw-table	D. H. Lentz	621,106	Mar. 14	1074	233, 234	86	1721
Saw-tool	H. G. Manning	632,133	Aug. 29	4461	1004	88	1661
Saw-tool	E. L. Post	639,285	Dec. 19	2012	463, 464	89	2294
Saw-tooth-shaping apparatus	F. W. Walquist, G. Nelson, and J. L. Gronquist.	639,472	Dec. 19	2381	548	89	2368
Saw-tooth-swaging machine	F. E. Butts and G. A. Dumbeck	634,164	Oct. 3	337	85	89	70
Saw. Tubular crown-	H. M. Dalzell	640,108	Dec. 26	3543	814	89	2620
Saw-vise	H. Armstrong	635,907	Oct. 31	3635	838, 839	89	777
Saw-vise	W. M. Potter	631,664	Aug. 22	3587	808	88	1482
Saw-vise	W. G. Rogers	622,169	Mar. 28	3041	688	86	2133
Saws. Adjustable gage for cut-off	R. H. Pangborn	637,214	Nov. 14	1916	410	89	1328
Saws. Fastening handles to crosscut-	J. O'Connor	630,098	Aug. 1	704	151	88	863
Saws. Insertible tooth for diamond	H. Forster	626,533	June 6	577	134	87	1726
Saws. Machine for sharpening gangs of	C. Carr	639,358	Dec. 19	2173	502	89	2327
Sawing apparatus. Miter-	G. Clemens	620,641	Mar. 7	177	37	86	1536
Sawing apparatus. Ribbon or band	T. Kirschner	639,402	Dec. 19	2253	520	89	2342
Sawing-machine	E. S. Clarke	621,488	Mar. 21	1757	391, 392	86	1866
Sawing-machine	J. Gillies	637,961	Nov. 28	3677	772	89	1752
Sawing-machine	I. Krenek	633,599	Sept. 26	2657	620	88	2268
Sawing-machine	C. J. Manning	629,516	July 25	2930	682	88	626
Sawing-machine	G. E. Schlegelmilch and F. A. Mann	630,118	Aug. 1	732	157	88	868
Sawing-machine	H. Schroer	626,303	June 6	156	37, 38	87	1643
Sawing-machine	D. S. Stewart	626,846	June 13	1167	260, 261	87	1857
Sawing machine. Felly-	A. C. Wood	617,005	Jan. 3	270	61	86	54
Sawing machine. Log-	S. W. Butterfield	632,640	Sept. 5	775	179	88	1861
Sawing machine. Wood-	S. W. Butterfield	619,541	Feb. 14	1358	312, 313	86	1095
Saxophone	P. Evette	638,385	Dec. 5	380	80	89	1939
Scaffold	L. M. Wilber	623,269	Apr. 18	1990	456, 457	87	417
Scaffold and scaffold-frame. Adjustable	A. Csorba	631,954	Aug. 29	4114	923, 924	88	1593
Scaffold. Folding window-	W. C. Stull	625,813	May 30	3390	769	87	1438
Scaffold-trestle. Adjustable	I. Davis	633,233	Sept. 19	1959	460	88	2120
Scaffolds. Apparatus for protecting workmen on	C. H. Asche	634,604	Oct. 10	1177	279, 280	89	251
Scaffolding or staging. Flying	H. Sturm	624,573	May 9	1161	260	87	947
Scalding tub. Hog-	P. F. Mahan	617,932	Jan. 17	2053	460	86	441
Scale	C. L. Bell	628,572	July 11	1176	275, 276	88	247
Scale	G. W. Chandler	628,525	July 11	1086	253, 254	88	229
Scale	M. E. Reisert	638,596	Dec. 5	771	167	89	2013
Scale	A. De Vilbiss, Jr	621,297	Mar. 14	1416	313	86	1788
Scale. Alarm-	P. Hammacher	619,478	Feb. 14	1252	287	86	1073
Scale and scoop. Combined	C. B. Crofford	634,747	Oct. 10	1438	338	89	302
Scale and value calculating and registering mechanism. Weighing-	F. L. Fuller	639,551	Dec. 19	2513	579, 580	89	2394
Scale. Astronomical	S. R. Kirby	627,427	June 20	2266	500	87	2095
Scale. Automatic weighing-	E. Hanak	637,388	Nov. 21	2256	485, 486	89	1412
Scale. Automatic weighing-	E. C. Pool	636,389	Nov. 7	276	61, 62	89	976
Scale-beam	R. Brunnée	634,495	Oct. 10	984	235	89	214
Scale-beam attachment	L. A. MacCauley and P. S. Gabrio	620,606	Mar. 7	100	19	86	1522
Scale case. Weighing-	M. H. Hansen	632,525	Sept. 5	577	133	88	1821
Scale. Combined multiple weight and pendulum	J. H. Stephens	628,558	July 11	1151	268	88	242
Scale. Computing-	T. J. Dunlea	619,286	Feb. 14	933	211	86	1011
Scale. Computing-	W. R. Dunn	623,533	Apr. 25	2462	567	87	531
Scale. Computing-	F. J. Englen	617,725	Jan. 17	1644	370	86	360
Scale. Computing-	F. D. Foster	627,405	June 20	2232	492	87	2087

Alphabetical list of inventions—Continued.

Invention.	Name.	No.	Date.	Monthly volume. Spec.	Monthly volume. Drg.	Official Gazette. Vol.	Official Gazette. Page.
Scale. Computing-	F. D. Foster	627,406	June 20	2235	492, 493	87	2088
Scale. Computing-	C. S. Morris	617,903	Jan. 17	2008	447, 448	86	430
Scale. Computing-	O. O. Ozias	625,798	May 30	3350	761, 762	87	1431
Scale. Computing-	W. F. Stimpson. (Reissue)	11,797	Dec. 26	3642	838	89	2641
Scale. Computing-	J. H. Swihart	627,152	June 20	1732	380	87	1988
Scale computing device	W. W. Bishop	618,834	Feb. 7	30	6	86	809
Scale. Drawing-	J. Ditson	637,857	Nov. 28	3476	726	89	1712
Scale. Excess-baggage	H. Paddock	618,520	Jan. 31	3180	702	86	681
Scale. Flour or grain	J. Doriot	618,983	Feb. 7	369	76,77	86	881
Scale. Garment-cutting	H. P. Evan	628,083	July 4	228	52	88	46
Scale, grip, and lifting machine. Combined coin-controlled weighing-	G. G. S. Merry	624,518	May 9	1058	238, 239	87	927
Scale. Platform-	S. J. Austin	636,613	Nov. 7	681	148	89	1059
Scale. Platform-	M. H. Winslow	634,420	Oct. 3	846	204	89	169
Scale. Platform weighing-	J. S. Cox	640,158	Dec. 26	3625	833	89	2637
Scale. Portable weighing-	W. S. Bracktle	634,162	Oct. 3	334	84	89	69
Scale. Price-	A. N. Ozias	634,831	Oct. 10	1568	368, 369	89	328
Scale. Price-computing	O. O. Ozias	637,153	Nov. 14	1791	384	89	1304
Scale. Price or money-weight	A. R. Beal	626,520	June 6	553	128	87	1721
Scale. Recording-	J. Campbell	627,978	July 4	35	7, 8	88	9
Scale. Scoop-	G. Kohn	619,422	Feb. 14	1165	263	86	1056
Scale. Scoop-	J. H. Snow	630,942	Aug. 15	2266	517	88	1203
Scale. Self-weighing	A. W. B. Johnson	624,338	May 2	723	160, 161	87	838
Scale. Self-weighing	A. W. B. Johnson	634,756	Oct. 10	1449	340, 341	89	304
Scale. Spring-	S. Goodbaudy	629,290	July 18	2473	577	88	516
Scale. Spring-	W. F. Stimpson	635,520	Oct. 24	2896	661	89	620
Scale. Spring computing-	W. F. Stimpson	619,364	Feb. 14	1054	236, 237	86	1035
Scale. Spring computing-	W. F. Stimpson	629,934	Aug. 1	374	81	88	796
Scale-support brake	J. S. Dey	621,330	Mar. 21	1481	329	86	1814
Scale. Weighing-	F. E. Mellinger. (Reissue)	11,738	May 2	900	203	87	874
Scale. Weighing-	H. Valder	620,063	Feb. 21	2322	528	86	1304
Scales. Stock-rack for platform-	S. J. Rice	622,538	Apr. 4	643	151	87	122
Scalper, grader, purifier, and bolter	A. W. Haag	626,160	May 30	4115	937, 938	87	1573
Scarf or necktie retainer	C. A. Tucker	625,817	May 30	3396	770	87	1440
Scarf-pin	D. R. Corbin	635,427	Oct. 24	2732	626	89	588
Scholar's companion	L. F. Biesmeyer	632,167	Aug. 29	4516	1016	88	1673
School-bench	K. Milla	636,543	Nov. 7	550	121	89	1032
School seat and desk	S. W. Peregrine	635,584	Oct. 24	3006	689, 690	89	640
School seat and desk. Adjustable	B. Clark	631,559	Aug. 22	3412	771	88	1446
Scissors	H. Walkinshaw	622,740	Apr. 11	1000	232	87	209
Scissors. Ball-bearing	T. Murphy	617,176	Jan. 3	603	141	86	118
Scissors. Buttonhole-	W. J. Hazard	630,455	Aug. 8	1409	315	88	1011
Scissors for cutting leather, &c	G. Thuillier	636,473	Nov. 7	414	92	89	1005
Scissors-guide	L. A. Noble	626,336	June 6	217	53	87	1654
Scissors or shears	A. H. Dow	638,662	Dec. 5	885	194	89	2038
Scissors or shears	J. C. Ford	631,111	Aug. 15	2586	584	88	1264
Scissors or shears	W. F. Hobbs and E. N. Sperry	618,879	Feb. 7	113	24	86	826
Scissors, shears, &c	J. M. F. Weidemeyer	619,373	Feb. 14	1067	239	86	1038
Scoop	E. E. Davenport	636,735	Nov. 7	959	206	89	1126
Scoop	A. W. Johnson	622,234	Apr. 4	62	15	87	15
Scoop and fork	R. R. Lay	624,661	May 9	1303	291	87	975
Scoop and scale. Combination	W. J. Miller	618,893	Feb. 7	131	29	86	830
Scoop or bucket	C. Berghoefer	639,656	Dec. 19	2704	622	89	2434
Scoring-board for cycling or other sports	W. H. N. Steed	619,053	Feb. 7	489	102, 103	86	905
Scourer:							
See Grain-scourer.							
Scouring-machine	W. A. Cowles	617,720	Jan. 17	1633	367	86	357
Scow. Dumping-	J. Atkins	627,951	June 27	3226	707	87	2304
Scow. Dumping-	C. C. Bowers	639,704	Dec. 26	2805	647, 648	89	2470
Scow. Dumping-	C. C. Bowers	639,705	Dec. 26	2808	648	89	2471
Scow. Dumping-	S. F. Clouser	630,593	Aug. 8	1664	373	88	1061
Scow. Dumping-	F. P. Eastman	629,554	July 25	2984	697	88	637
Scow. Dumping-	J. Edwards	625,327	May 23	2518	572	87	1251
Scow. Dumping-	J. J. Haslam	631,637	Aug. 22	3543	798	88	1473
Scraper	J. T. Boufford	629,487	July 25	2865	666	88	613
Scraper	C. M. McMullen	622,524	Apr. 4	619	145	87	117
Scraper and carrier. Road-	J. A. Taylor	629,826	Aug. 1	117	28, 29	88	743
Scraper and roller. Combined road	G. W. Miller	635,336	Oct. 24	2500	581	89	542
Scraper. Ballast-	C. T. McElvaney	631,654	Aug. 22	3572	805	88	1479
Scraper. Cabinet-	F. H. Crocker	633,571	Sept. 26	2589	606	88	2257
Scraper, chopper, and cultivator. Combined corn and cotton	R. J. Sevier	626,103	May 30	3996	911	87	1550
Scraper dumping attachment. Wheeled-	A. Titus	617,914	Jan. 17	2028	453	86	434
Scraper. Earth-	B. F. Shuart	636,859	Nov. 14	1197	259	89	1191
Scraper. Land-	G. M. Light	633,860	Sept. 26	3106	721	88	2358
Scraper. Road-	C. E. Damerell	637,712	Nov. 21	3213	667, 668	89	1639
Scraper. Road-	F. Philip	621,371	Mar. 21	1552	344	86	1827
Scraper. Wheel-	W. P. Warren	617,430	Jan. 10	1101	251	86	233
Scraper. Wheeled	G. W. Lovejoy	629,452	July 25	2788	648	88	599
Scraping machine. Road or street	L. W. Towne	630,275	Aug. 1	995	219, 220	88	919

Alphabetical list of inventions—Continued.

Invention.	Name.	No.	Date.	Monthly volume. Spec.	Monthly volume. Drg.	Official Gazette. Vol.	Official Gazette. Page.
Screen: *See* Bed-screen. Emergency-screen. Fish-screen. Fly-screen. Head-screen. Insect-screen. Nose-screen. Paper-pulp screen. Pulp-screen. Revolving eccentric screen. Sand-screen. Shaking-screen. Stamp-mill screen. Table-screen. Well sand-screen. Window-screen. Wire screen.							
Screen	A. Graham	635,928	Oct. 31	3671	847	89	783
Screen	D. E. Phillips	632,201	Aug. 29	4590	1034	88	1686
Screen	C. W. Pickett	622,070	Mar. 28	2841	640	86	2092
Screen	E. C. Smith	617,197	Jan. 3	639	149	86	125
Screen-frame, &c	H. E. Willer	636,879	Nov. 14	1240	267	89	1199
Screen or riddle	J. A. Fugate	627,640	June 27	2680	588	87	2193
Screen or sieve	A. Adams	639,699	Dec. 26	2799	645, 646	89	2469
Screen-scraper	J. H. Bowden	621,744	Mar. 21	2237	504, 505	86	1960
Screening and assorting apparatus for coal, &c	W. S. Cherry	639,710	Dec. 26	2814	649, 650	89	2473
Screening apparatus	C. W. Honabach	621,568	Mar. 21	1806	426	86	1895
Screening apparatus	D. E. Phillips	627,706	June 27	2792	611	87	2214
Screening-machine	J. M. Elder and O. W. Dunlap	625,295	May 16	2448	556	87	1211
Screw	J. W. Caldwell	635,297	Oct. 24	2438	568	89	531
Screw-anchor	W. Love	617,492	Jan. 10	1200	273	86	253
Screw-cap	H. F. Brockmann	638,317	Dec. 5	244	51	89	1913
Screw-cutting apparatus	C. F. Chase	619,139	Feb. 7	653	140, 141	86	939
Screw-cutting die	C. J. Harrington	639,232	Dec. 19	1922	442	89	2275
Screw-cutting machine	L. Bailey	631,770	Aug. 29	3804	847	88	1532
Screw-cutting machine	A. Latham	631,576	Aug. 22	3446	778, 779	88	1454
Screw-cutting tool	E. H. Williams	635,272	Oct. 17	2382	556	89	503
Screw-driver	C. A. Mann	625,046	May 16	2004	451	87	1130
Screw-driver	F. Rainwater	617,046	Jan. 3	369	90	86	71
Screw-driver	B. E. Sawyer and W. D. Arnott	624,875	May 9	1703	386	87	1054
Screw-driver	H. Wallin	624,999	May 16	1917	430	87	1113
Screw driver and holder	G. Hoepner	637,990	Nov. 28	3730	784	89	1763
Screw-machine	E. C. Henn	624,802	May 9	1564	357	87	1028
Screw-machine	G. E. Randles	627,529	June 27	2451	539	87	2147
Screw-machine attachment	W. K. Sandstrom and E. Bommer	635,147	Oct. 17	2175	507	89	464
Screw-machine chucks. Device for automatically feeding articles to	E. M. Couch	629,714	July 25	3266	762, 763	88	690
Screw-machine speed-changing mechanism	C. L. Grohmann	628,794	July 11	1601	369	88	333
Screw-machine speed-changing mechanism	L. C. Woerner	628,734	July 11	1486	344	88	310
Screw-machine stock-feeding mechanism	J. Hartness	629,161	July 18	2264	524, 525	88	477
Screw-making machine	E. C. Henn	624,803	May 9	1567	357	87	1029
Screw or other machines. Stop-motion for	W. S. Davenport	622,760	Apr. 11	1038	241	87	217
Screw-tap mounting device	F. A. Meischner	621,930	Mar. 28	2594	584, 585	86	2043
Screw. Temper-	J. J. Davin	636,641	Nov. 7	740	161	89	1071
Screw-thread-cutting die	F. E. Wells	632,977	Sept. 12	1446	335	88	2006
Screw-thread-cutting tool	H. Dock	632,678	Sept. 5	878	205	88	1883
Screw-thread-cutting tool	C. A. Johnson	630,712	Aug. 8	1859	420	88	1097
Screw-thread-forming tap	R. Kilburn	635,324	Oct. 24	2481	577	89	538
Screw-threads. Die for rolling	W. L. Ames	618,262	Jan. 24	2689	596	86	573
Screw-threads on bolts, &c. Screwing appliance for forming	R. Kilburn	621,528	Mar. 21	1834	408	86	1881
Screw-threads. Swaging	S. Frank	638,962	Dec. 12	1430	327	89	2166
Screw-threading machine	W. L. Clouse	619,673	Feb. 14	1594	364, 365	86	1139
Screw-threading machine	H. Hubbell	622,475	Apr. 4	509	121, 122	87	96
Screw-threading-machine die-holder	M. C. Seren	638,601	Dec. 5	778	169	89	2015
Screw-wrench	J. H. Coes	618,026	Jan. 17	2215	494	86	470
Screws and parts. Machine for assembling	H. Hubbell	622,476	Apr. 4	515	122, 123	87	97
Screws, &c. Machine for separating chips or shavings from	H. K. Jones	628,665	July 11	1370	320	88	285
Screws, &c. Molding apparatus for making cores for forming nicks, &c., in heads of cast	F. T. Giles	640,126	Dec. 26	3572	822	89	2626
Scrubber	G. L. Gardner	632,683	Sept. 5	899	209	88	1888
Scrubber. Fountain-	F. W. Nevius	621,936	Mar. 28	2604	587	86	2045
Scrubbing-machine	A. O. Rickmeier and W. B. Hadley	619,348	Feb. 14	1024	231	86	1030
Scutching-machine	S. Stanbridge	619,359	Feb. 14	1046	235	86	1034
Scythes or sickles. Manufacturing	R. Commichau	639,665	Dec. 19	2726	627	89	2438
Sea-beaches from washing away. Device for preventing	F. C. Martin	639,179	Dec. 12	1798	416	89	2237
Seasickness. Device for preventing	C. Calliano	633,424	Sept. 19	2322	547	88	2190
Seal	E. J. Brooks	630,321	Aug. 8	1103	241	88	955
Seal	F. W. Brooks	622,599	Apr. 4	746	172	87	142
Seal	J. Dela Mar	625,836	May 30	3430	779	87	1447
Seal	J. Dela Mar	625,837	May 30	3432	779	87	1447
Seal	A. B. Schofield	637,898	Nov. 28	3572	748	89	1732
Seal	E. Tyden	618,146	Jan. 24	2473	550	86	534
Seal and band. Bottle	S. F. Estell	631,781	Aug. 29	3826	852	88	1536
Seal and tag. Car	H. A. Kennedy	624,217	May 2	496	106	87	794
Seal. Car-	S. A. Foster	618,500	Jan. 31	3145	695	86	675
Seal. Car-	W. M. Hope	620,323	Feb. 28	2791	638	86	1408
Seal. Car-	A. La Veen	629,511	July 25	2921	680	88	624
Seal. Car-	A. P. Miller	626,628	June 6	723	167	87	1755
Seal. Car-	C. F. Roberg	617,426	Jan. 10	1096	250	86	232
Seal. Car-	O. H. P. G. Spencer	632,593	Sept. 5	697	161	88	1844

Alphabetical list of inventions—Continued.

Invention.	Name.	No.	Date.	Monthly volume. Spec.	Monthly volume. Dr'g.	Official Gazette. Vol.	Official Gazette. Page.
Seal-feeding mechanism for bottling-machines	T. M. and T. M. Conner	633,505	Sept. 19	2445	576, 577	88	2213
Seal-lock	A. W. Coffin	617,477	Jan. 10	1178	269	86	249
Seal-lock	A. W. Coffin	619,140	Feb. 7	655	141	86	940
Seal-lock	C. H. Connolly	626,650	June 6	776	177	87	1765
Seal-lock	J. P. Doherty	621,637	Mar. 21	2021	451	86	1918
Seal-lock	L. B. Edgar	625,027	May 16	1965	440	87	1122
Seal-lock	W. K. Edgar	637,860	Nov. 28	3500	731	89	1717
Seal-lock	W. H. Goehrs	618,936	Feb. 7	232	53	86	849
Seal-lock	J. H. Harvey	634,411	Oct. 3	830	200	89	166
Seal-lock	J. F. Hilty	620,846	Mar. 7	578	125	86	1616
Seal-lock	W. F. Homman	628,161	July 4	381	90	88	77
Seal-lock	J. MacKenzie	637,629	Nov. 21	3061	633	89	1609
Seal-lock	J. A. Mehling	633,875	Sept. 26	3130	726	88	2363
Seal-lock	C. E. Richardson	639,937	Dec. 26	3226	740	89	2555
Seal-lock	C. E. Richardson	639,938	Dec. 26	3228	740	89	2555
Seal-lock	C. Stefán	627,149	June 20	1727	379	87	1987
Seal-lock	W. F. Traves	638,079	Nov. 28	3889	819	89	1794
Seal-press	J. F. Gent	638,841	Dec. 12	1218	274	89	2123
Seal. Safe-	E. R. Applin	620,091	Feb. 28	2375	538	86	1329
Seal. Self-locking	E. Tyden	618,147	Jan. 24	2476	550	86	535
Seal. Self-locking	E. Tyden	629,938	Aug. 1	382	83	88	798
Seal. Self-locking	E. Tyden	629,939	Aug. 1	385	83	88	799
Seal. Snap-	E. J. Brooks	619,704	Feb. 14	1662	381	86	1152
Seal. Snap-	E. J. Brooks	623,941	Apr. 25	3222	743	87	674
Seals. Machine for reopening bottle-	T. J. Henderson	634,412	Oct. 3	832	201	89	166
Seals to wood, &c. Device for attaching metal	A. H. Frankel	627,407	June 20	2236	493	87	2088
Sealed folding hollow body	F. A. Walter	618,628	Jan. 31	3365	749, 750	86	716
Sealer. Envelop-	L. E. Pangburn	622,528	Apr. 4	626	147	87	118
Sealing apparatus. Jar-	W. A. Lorenz	639,680	Dec. 19	2761	637	89	2444
Sealing apparatus. Jar-	W. A. Lorenz	639,681	Dec. 19	2762	637	89	2444
Sealing apparatus. Jar-	W. A. Lorenz	639,682	Dec. 19	2764	637	89	2444
Sealing bottles	T. T. McNish	633,885	Sept. 26	3147	731	88	2366
Sealing bottles. Closure for	W. Painter	625,055	May 16	2017	454	87	1132
Sealing bottles. Machine for automatically	W. Painter	638,354	Dec. 5	319	66, 67, 68	89	1927
Sealing bottles. Means for	L. Barger	625,533	May 23	2859	651	87	1317
Sealing device. Bottle-	J. Cederstrom	633,803	Sept. 26	3001	698	88	2337
Sealing device. Bottle-	W. H. Northall	619,603	Feb. 14	1454	335	86	1111
Sealing device. Package-	J. T. Craw	628,771	July 11	1552	358, 359	88	323
Sealing device. Package-	H. M. Humphrey	633,007	Sept. 12	1494	347	88	2016
Sealing fruit-cans. Composition for	A. Propfe	636,922	Nov. 14	1341	------	89	1218
Sealing liquid-containing vessels and removing contents therefrom. Means for	A. J. Dewhurst and E. B. Smith	625,384	May 23	2607	593	87	1268
Sealing machine. Bottle-	A. A. Carper	623,274	Apr. 18	1999	459	87	419
Sealing machine. Box-	J. T. Craw	632,103	Aug. 29	4398	987, 988	88	1648
Sealing machine. Box-	J. T. Craw	634,805	Oct. 10	1521	357, 358	89	319
Sealing machine. Envelop-	L. M. Nielsen	636,690	Nov. 7	830	184, 185	89	1090
Sealing or unsealing cans. Means for	H. R. Allen, Jr	629,843	Aug. 1	165	38	88	753
Sealing sheet-metal cans. Machine for hermetically	E. Norton	620,247	Feb. 28	2651	604, 605	86	1380
Seam for sewed articles	J. Stewart, Jr	621,171	Mar. 14	1191	259	86	1745
Seam rubbing and cleaning machine	J. B. Hadaway	627,185	June 20	1790	393	87	2000
Seam-rubbing and welt-protecting mechanism	J. G. McCarter and T. Hansen	622,252	Apr. 4	91	21	87	21
Seams of sheet-metal cans. Machine for hermetically closing circular	C. F. Mendham	623,802	Apr. 25	2961	676, 677	87	625
Seaming and curling machine. Sheet-metal	E. Zeh	620,398	Feb. 28	2912	667, 668	86	1431
Seaming-machine	W. Rubin	622,271	Apr. 4	129	29	87	27
Seaming metallic can-bodies. Machine for	W. J. Gordon	631,487	Aug. 22	3265	742, 743, 744	88	1417
Seaming sheet-metal vessels	J. A. Steward	635,608	Oct. 24	3049	701	89	648
Seat: *See* Adjustable seat. Car-seat. Collapsible seat. Convertible seat. Folding seat. Outdoor seat. Reversible seat. School-seat. Spring-seat. Stool-seat. Timber-seat. Vehicle tilting seat. Window-seat.							
Seat	A. Evans	621,642	Mar. 21	2036	454	86	1921
Seat	J. James	634,352	Oct. 3	735	176	89	147
Seat-back	W. E. C. Ellis	621,049	Mar. 14	979	213	86	1703
Seat-clamp	C. Lesh	637,395	Nov. 21	2268	488	89	1414
Seat-post	P. J. Hindmarsh	636,726	Nov. 7	908	202	89	1109
Seat-post bracket. Sheet-metal	W. H. Smith	634,772	Oct. 10	1470	346	89	309
Seat-post clamp	E. H. Ehrman	619,469	Feb. 14	1235	282	86	1070
Seat-post clamp	W. H. Fauber	634,058	Oct. 3	126	32	89	29
Seat-post fastening	J. C. Hyman	635,548	Oct. 24	2945	672	89	629
Seat-post. Pneumatic-cushion	A. J. Davis	622,179	Mar. 28	3055	693	86	2136
Seat-post. Spring	J. N. Smith	626,396	June 6	344	80	87	1680
Seat-raising device	J. Kirby, Jr	619,894	Feb. 21	2034	461	86	1249
Secondary battery	R. Ashley	629,325	July 25	2553	594	88	551
Secondary battery	O. Behrend	639,652	Dec. 19	2698	620	89	2433
Secondary battery	W. A. Crowdus	622,124	Mar. 28	2942	667	86	2112
Secondary battery	H. Dolter	618,247	Jan. 24	2660	588, 589	86	568
Secondary battery	P. J. R. Dujardin	621,523	Mar. 21	1824	406	86	1879
Secondary battery	A. E. Hodgson	636,142	Oct. 31	4107	940	89	870

Alphabetical list of inventions—Continued.

Invention.	Name.	No.	Date.	Monthly volume.		Official Gazette.	
				Spec.	Dr'g.	Vol.	Page.
Secondary battery	W. M. McDougall	627,134	June 20	1702	373	87	1982
Secondary battery	G. Philippart	620,172	Feb. 28	2512	571	86	1355
Secondary battery	C. Ridsdale	628,492	July 11	1012	236	88	215
Secondary battery	A. Schanschieff	619,622	Feb. 14	1501		86	1120
Secondary battery and electric lamp	W. A. Crowdus	618,057	Jan. 24	2279	508, 509	86	498
Secondary battery or accumulator	C. J. Reed	638,472	Dec. 5	552	114	89	1972
Section-liner	J. E. Palmer	630,923	Aug. 15	2231	509	88	1195
Section-liner	E. E. Sheldon and J. T. Freeman	618,742	Jan. 31	3567	796	86	757
Sectional boiler	H. M. Hoffman	639,574	Dec. 19	2559	587, 588	89	2404
Sectional boiler	S. E. Porter	638,202	Nov. 28	4154	877	89	1846
Sectional boiler for water and steam heating	S. Burns	619,862	Feb. 21	1978	449	86	1239
Seed cleaner. Cotton-	F. C. Crowe	618,785	Jan. 31	3637	813	86	771
Seed conveyer. Cotton-	J. T. Moore	636,414	Nov. 7	310	70	89	983
Seed crusher and distributer. Cotton-	S. M. Neely	635,802	Oct. 31	3422	789	89	735
Seed-cup	G. A. Heath	624,021	May 2	124	28	87	726
Seed delinter. Cotton-	J. H. McCormick	636,164	Oct. 31	4143	950	89	878
Seed. Delinting cotton-	E. B. Cunningham and F. C. Thiele	637,089	Nov. 14	1652	358	89	1279
Seed-distributer	W. Taylor	619,055	Feb. 7	493	103	86	906
Seed-drill	F. Bateman	627,964	July 4	4	1,2	88	3
Seed-drill	R. H. Sleister	620,057	Feb. 21	2316	526	86	1302
Seed-drill	W. Stephenson	624,117	May 2	323	66	87	762
Seed-drill and horse-hoe	T. E. Martin	634,178	Oct. 3	360	92	89	74
Seed-drill attachment	W. P. Whittier	617,454	Jan. 10	1141	260	86	240
Seed drill attachment. Hand or other	J. L. Hibbs	636,140	Oct. 31	4105	939	89	870
Seed-drill. Disk	W. Stephenson	624,118	May 2	324	67	87	762
Seed-drill scraper. Disk-	W. Stephenson	624,119	May 2	326	67	87	762
Seed-drill shoe	W. Coulthard	626,672	June 13	823	188	87	1793
Seed-drill valve	W. Payne	625,596	May 23	2972	675	87	1339
Seed dropper. Cotton-	W. Smith	630,752	Aug. 8	1921	434	88	1110
Seed for planting. Machine for preparing	W. Evans	623,081	Apr. 11	1610	370	87	328
Seed huller and separator. Cotton-	G. W. Soulé	629,016	July 18	1997	464, 465	88	426
Seed linters and gins. Roll-box-adjusting mechanism for cotton-	J. M. Gardner	631,293	Aug. 22	2913	660	88	1347
Seed roaster. Cotton-	O. Collins	618,644	Jan. 31	3391	755	86	722
Seed-separator	H. F. Eakle	621,602	Mar. 21	1959	438	86	1905
Seeder	S. J. Coyim	632,645	Sept. 5	785	182, 183, 184	88	1863
Seeder	E. J. Dodds and T. A. Jackson	629,342	July 25	2584	599	88	556
Seeder	L. A. Wright	633,634	Sept. 26	2721	634	88	2280
Seeder and planter	T. E. Hoffman	635,483	Oct. 24	2833	646, 647	89	608
Seeder attachment. Broadcast-	L. A. Wright	639,486	Dec. 19	2404	553	89	2372
Seeder. Combined grain and grass	W. F. Hoyt	634,460	Oct. 10	924	221	89	202
Seeding and fertilizing machine	J. S. Heath	629,994	Aug. 1	497	108, 109, 110, 111	88	821
Seeding-machine	T. Brennan, Jr	631,844	Aug. 29	3926	878	88	1556
Seeding-machine	G. D. Haworth	627,116	June 20	1674	366, 367	87	1976
Seeding-machine	A. Lindgren	617,443	Jan. 10	1124	256, 257	86	237
Seeding-machine	W. W. Schultz	620,370	Feb. 28	2869	657	86	1423
Seeding-machines. Agitator for fertilizer-feed for	E. L. Buchwalter and G. P. Oates	627,478	June 27	2362	520	87	2130
Seeding or like machines. Thinning attachment for	F. O. Bible	636,240	Nov. 7	15	4	89	928
Selecting instrument	A. Duppler	626,806	June 13	1081	243	87	1842
Self-acting lubricator	S. H. A. Jones	621,096	Mar. 14	1058	230	86	1718
Self-basting pan	L. Mabee	626,029	May 30	3842	871	87	1524
Self-leveling chair for ships	W. M. Knox	619,895	Feb. 21	2036	462	86	1250
Self-locking clamp	C. A. Kohl	630,900	Aug. 15	2191	498	88	1188
Self-sealing can	D. Macdonald	633,653	Sept. 26	2746	639	88	2285
Self-waiting table	A. J. York	628,153	July 4	369	87	88	74
Semaphore-blade	E. E. Ford	619,472	Feb. 14	1241	283	86	1071
Sensitized material. Process of and box for packing	M. J. Steffens	619,097	Feb. 7	566	121	86	921
Separable hook	F. A. Sanford	633,909	Sept. 26	3188	742	88	2375
Separating and grading machine	H. Walker	622,572	Apr. 4	695	162	87	132
Separating apparatus and method of separating. Hydraulic	R. H. Richards	624,684	May 9	1343	300	87	984
Separating granular materials	J. Higginbottom	619,482	Feb. 14	1264	289	86	1076
Separating magnetic materials. Apparatus for	O. A. P. Trüstedt	619,636	Feb. 14	1535	349, 350	86	1127
Separating materials by centrifugal force. Apparatus for	C. Skinner	617,864	Jan. 17	1923	430, 431	86	414
Separating materials by centrifugal force. Apparatus for	C. Skinner	617,865	Jan. 17	1928	432	86	415
Separator: *See* Cellulose-separator. Centrifugal separator. Chip-separator. Coal-separator. Cream-separator. Egg-separator. Fluid-separator. Gas and oil separator. Gas, oil, and water separator. Gold-separator. Grain-separator. Gravity-separator. Harvester grain-separator. Liquid-separator. Magnetic separator. Mineral-separator. Oil and condensed-steam separator. Ore-separator. Pea or bean separator. Seed-separator. Steam-separator. Water and steam separator. Waterworks-separator.							
Separator	G. F. Anderson	635,734	Oct. 31	3299	760	89	711
Separator	H. L. Day	627,575	June 27	2545	560	87	2165

Alphabetical list of inventions—Continued.

Invention.	Name.	No.	Date.	Monthly volume. Spec.	Monthly volume. Dr'g.	Official Gazette. Vol.	Official Gazette. Page.
Separator	F. Hixson	624,333	May 2	714	158	87	837
Separator	R. W. Jessup	639,855	Dec. 26	3083	709	89	2526
Separator	E. E. Kithcart and B. W. Warner	631,371	Aug. 22	3051	691	88	1375
Separator	A. Raymond	629,604	July 25	3081	717	88	655
Separator	J. M. Schutz	619,353	Feb. 14	1036	232, 233	86	1032
Separator	R. F. Wentz	636,017	Oct. 31	3846	884	89	818
Separator for granular or like materials	W. Settner	626,306	June 6	161	39	87	1644
Separators for ore, coal, &c. Feed-chute for	F. Pardee	638,062	Nov. 28	3864	813	89	1789
Settee and bed. Combined	J. Saveland	636,854	Nov. 14	1179	256	89	1187
Setting. Cluster-	G. W. Dover and F. L. King	630,197	Aug. 1	866	187	88	893
Settling device	J. Wilson	630,958	Aug. 15	2298	523	88	1208
Sewage for obtaining fertilizers. Treating	F. M. Spence	622,401	Apr. 4	341		87	64
Sewage. Process of and apparatus for treating	D. Cameron, F. J. Commin, and A. J. Martin.	634,423	Oct. 3	849	205, 206	89	170
Sewage-purifying apparatus	W. D. Scott-Moncrieff	624,985	May 16	1900	426	87	1110
Sewage. Raising	A. Priestman	632,745	Sept. 12	1023	237	88	1923
Sewage. Treating	R. H. Reeves	631,229	Aug. 15	2778	629	88	1303
Sewage-treating apparatus	D. Cameron, F. J. Commin, and A. J. Martin.	634,425	Oct. 3	861	208, 209	89	173
Sewage-treating apparatus	D. Cameron, F. J. Commin, and A. J. Martin.	634,426	Oct. 3	864	209	89	173
Sewage-treating apparatus	D. Cameron, F. J. Commin, and A. J. Martin.	634,427	Oct. 3	866	209	89	174
Sewage-treating apparatus	D. Cameron, F. J. Commin, and A. J. Martin.	634,428	Oct. 3	867	210	89	174
Sewer cleaning and exploring machine	P. J. Healey	636,526	Nov. 7	520	114, 115	89	1026
Sewer-cleaning appliance	G. E. Waring, Jr	623,585	Apr. 25	2559	587	87	549
Sewer or drain pipe or conduit for waterways	W. Jefferys	628,942	July 18	1869	433	88	401
Sewer-gas trap	J. P. Putnam	625,899	May 30	3547	806	87	1468
Sewer pipes or traps. Clean-out for	J. J. Phelan	637,822	Nov. 28	3417	714	89	1700
Sewer-trap	J. Elder	624,773	May 9	1506	342	87	1016
Sewer-trap	T. B. L. Mitchell	625,185	May 16	2244	510	87	1173
Sewers. Flushing and cleaning	H. C. Davis	624,188	May 2	447	93	87	785
Sewers, water-closets, &c. Cleaning device for	J. Wrigley	619,920	Feb. 21	2073	469	86	1257
Sewing and plaiting machine	G. H. W. Curtis	617,227	Jan. 3	694	161, 162	86	135
Sewing apparatus. Carpet-	E. B. Allen	619,820	Feb. 21	1891	431, 432	86	1222
Sewing beads to fabrics. Machine for	H. A. Domenget	629,005	July 18	1977	461	88	422
Sewing beads to fabrics. Machine for	H. A. Domenget	630,196	Aug. 1	865	186	88	893
Sewing looped fabrics. Machine for	F. Campbell	632,042	Aug. 29	4284	962, 963	88	1626
Sewing looped fabrics. Trimming and raveling attachment for machines for	E. H. Brown	629,149	July 18	2246	520	88	474
Sewing-machine	W. M. Ammerman and E. J. Toof	629,735	July 25	3307	772, 773	88	699
Sewing-machine	J. E. Bertrand	618,373	Jan. 24	2878	638, 639	86	609
Sewing-machine	A. A. Bouton and S. H. Varnum	623,351	Apr. 18	2138	591, 592, 593	87	446
Sewing-machine	J. J. M. Chauvet and J. W. Coulter	633,119	Sept. 19	1730	406, 407	88	2074
Sewing-machine	C. A. Dearborn	639,669	Dec. 19	2731	628	89	2439
Sewing-machine	W. F. Dial and G. H. Dimond	619,250	Feb. 7	853	187	86	979
Sewing-machine	R. Eder	623,534	Apr. 25	2465	567, 568	87	531
Sewing-machine	A. Eppler, Jr	622,337	Apr. 4	243	55, 56	87	46
Sewing-machine	W. P. Gammons, Jr	623,147	Apr. 18	1765	406, 407	87	372
Sewing-machine	S. G. Howe	620,134	Feb. 28	2457	557, 558	86	1344
Sewing-machine	S. G. Howe	620,135	Feb. 28	2461	558, 559	86	1345
Sewing-machine	F. A. Mills	623,096	Apr. 11	1644	381	87	335
Sewing-machine	F. A. Mills	623,097	Apr. 11	1648	381, 382	87	335
Sewing-machine	F. A. Mills	632,056	Aug. 29	4305	968, 969, 970	88	1630
Sewing-machine	W. N. Parkes	629,169	July 18	2277	528, 529	88	480
Sewing-machine	W. N. Parkes	630,559	Aug. 8	1600	357, 358	88	1048
Sewing-machine	A. B. Peters	635,974	Oct. 31	3760	867, 868	89	800
Sewing-machine	H. Sargent	621,760	Mar. 21	2269	511, 512	86	1967
Sewing-machine	J. R. Scott and C. Dancel	619,624	Feb. 14	1503	342, 343	86	1121
Sewing-machine	W. H. Stedman	626,311	June 6	166	40	87	1645
Sewing-machine	W. H. Stedman	626,312	June 6	169	41	87	1645
Sewing-machine	J. Stewart, Jr	621,170	Mar. 14	1184	257, 258	86	1743
Sewing-machine	A. O. Towns and T. Barrett	629,881	Aug. 1	213	54, 55	88	767
Sewing-machine	H. R. Tracy	626,470	June 6	467	109	87	1704
Sewing-machine	G. W. Willey	628,975	July 18	1920	447	88	411
Sewing-machine	A. Wood	626,316	June 6	178	43, 44, 45	87	1647
Sewing-machine attachment	C. F. Cain and H. Sangtinette	619,070	Feb. 7	516	108	86	911
Sewing-machine attachment	S. Chatfield	620,418	Feb. 28	2943	675	86	1436
Sewing-machine attachment	S. Girardeau, V. D. Thompson, and R. L. Beal.	624,644	May 9	1276	285	87	969
Sewing-machine attachment	A. Nolan	624,238	May 2	547	116	87	803

Alphabetical list of inventions—Continued.

Invention.	Name.	No.	Date.	Monthly volume.		Official Gazette.	
				Spec.	Dr'g.	Vol.	Page.
Sewing machine. Broom-	A. E. Miller	618,798	Jan. 31	3663	820, 821, 822	86	776
Sewing machine. Buttonhole-	J. Gutmann	624,792	May 9	1535	350	87	1022
Sewing machine. Buttonhole-	J. Gutmann, E. Faller, and K. Mischke.	624,793	May 9	1542	351, 352	87	1024
Sewing machine. Buttonhole-	J. Gutmann, E. Faller, and K. Mischke.	627,114	June 20	1668	364, 365, 366	87	1975
Sewing machine. Buttonhole-	J. Gutmann, E. Faller, and K. Mischke.	634,134	Oct. 3	284	69, 70, 71	89	60
Sewing machine. Buttonhole-	J. Gutmann, E. Faller, and K. Mischke.	634,135	Oct. 3	289	72, 73, 74	89	61
Sewing machine. Buttonhole-	H. E. Hawes	620,706	Mar. 7	312	63	86	1562
Sewing machine. Buttonhole-	F. W. Ostrom	623,618	Apr. 25	2616	597, 598	87	559
Sewing machine. Buttonhole-	F. W. Ostrom	626,189	May 30	4167	948, 949	87	1584
Sewing-machine corder	J. Douglas	619,877	Feb. 21	2010	456	86	1245
Sewing-machine emery-wheel attachment	A. C. Pickett	633,365	Sept. 19	2214	520	88	2169
Sewing-machine fan attachment	S. A. B. Burke	619,935	Feb. 21	2094	476	86	1261
Sewing-machine fan attachment	E. Kemnitz	627,124	June 20	1690	370	87	1980
Sewing-machine fan attachment	A. Russell	619,508	Feb. 14	1308	300	86	1086
Sewing-machine feeding mechanism	E. B. Allen	623,271	Apr. 18	1995	457	87	418
Sewing-machine feeding mechanism	W. J. Stewart	618,747	Jan. 31	3582	799	86	760
Sewing-machine feller	G. H. W. Curtis	621,039	Mar. 14	963	209	86	1700
Sewing machine. Filled-sack-	L. E. Curtis	639,216	Dec. 19	1890	435, 436	89	2268
Sewing-machine folder	L. Onderdonk	630,628	Aug. 8	1734	388	88	1073
Sewing-machine folding seat	G. Hamlin	634,889	Oct. 17	1681	397	89	367
Sewing-machine for making eyelets	J. and W. U. Morton	626,815	June 13	1096	246	87	1844
Sewing-machine for making hat-linings	F. W. Cheetham	627,050	June 13	1553	339, 340	87	1933
Sewing-machine for sewing mouths of bags	J. Crook and E. Whitehead	632,676	Sept. 5	871	203, 204	88	1882
Sewing-machine for stitching eyelets	P. Krippendorf	624,223	May 2	507	108	87	797
Sewing-machine heating device	F. A. Mills	623,101	Apr. 11	1670	386	87	339
Sewing-machine hemmer	P. Diehl and M. Hemleb	623,891	Apr. 25	3135	722	87	658
Sewing-machine. Hemstitch	R. Brown and J. Quinn	629,421	July 25	2732	634, 635	88	588
Sewing-machine. Hemstitch	P. Diehl and M. Hemleb	635,673	Oct. 24	3168	729, 730	89	672
Sewing-machine. Hemstitch	C. H. Foster	634,208	Oct. 3	420	107, 108	89	87
Sewing-machine. Hemstitch	A. Grieb	639,726	Dec. 26	2846	655, 656	89	2479
Sewing-machine. Hemstitch	J. Gutmann	620,304	Feb. 28	2756	631, 632	86	1401
Sewing-machine. Hemstitch	A. J. A. Oesterreich	630,099	Aug. 1	705	151	88	863
Sewing-machine. Hemstitch	J. Walker	634,970	Oct. 17	1825	432, 433	89	396
Sewing-machine lap-seam feller	G. H. W. Curtis	621,038	Mar. 14	961	209	86	1700
Sewing-machine loop-taker	W. A. Neely	639,181	Dec. 12	1801	417	89	2237
Sewing-machine needle	C. W. Hodsdon and G. B. Gerau	623,666	Apr. 25	2697	618	87	574
Sewing-machine needle-threading device	S. J. Chouteau and C. A. Dupuis	633,260	Sept. 19	2009	471, 472	88	2129
Sewing-machine. Overedge	H. A. Klemm	618,687	Jan. 31	3474	776	86	738
Sewing-machine. Overseam	D. C. Bellis	618,597	Jan. 31	3312	736, 737	86	706
Sewing-machine plaiter	J. Douglas	635,676	Oct. 24	3174	731	89	673
Sewing-machine presser-foot	S. P. Brown	617,075	Jan. 3	414	102	86	80
Sewing-machine presser-foot	S. Laskey	617,751	Jan. 17	1690	380	86	369
Sewing-machine presser-foot	A. Rontke	621,145	Mar. 14	1150	250	86	1736
Sewing-machine presser-foot	A. Rontke	621,146	Mar. 14	1152	250	86	1737
Sewing-machine presser-foot	A. Rontke	621,147	Mar. 14	1153	250	86	1737
Sewing-machine presser-foot-lifting mechanism	F. W. Merrick	629,108	July 18	2171	504	88	461
Sewing-machine quilting-frame	O. R. F. Whitten	634,930	Oct. 17	1743	414	89	379
Sewing-machine ripping attachment	G. A. Emery and W. J. Cunningham.	622,672	Apr. 11	898	206	87	190
Sewing-machine ruffler	M. Hemleb	623,309	Apr. 18	2061	473	87	431
Sewing-machine ruffler and gatherer	H. M. Lovejoy	638,970	Dec. 12	1445	330	89	2169
Sewing-machine ruffler attachment	W. M. Ammerman and E. J. Toof	629,736	July 25	3309	773	88	699
Sewing-machine scissors-grinding attachment	E. Newquist	622,012	Mar. 28	2750	621	86	2075
Sewing-machine-shaft hanger	E. T. Thomas	630,274	Aug. 1	994	219	88	919
Sewing machine. Shoe-	A. B. Fowler and G. E. Warren	634,850	Oct. 10	1607	377, 378	89	336
Sewing machine. Shoe-	F. A. Mills	623,098	Apr. 11	1652	382, 383	87	336
Sewing machine. Shoe-	F. A. Mills	623,099	Apr. 11	1657	383, 384, 385	87	337
Sewing machine. Shoe-	F. A. Mills	623,100	Apr. 11	1667	385, 386	87	338
Sewing machine. Shoe-	E. E. Winkley	624,599	May 9	1202	271	87	955
Sewing-machine shuttle	H. A. Bates	636,617	Nov. 7	687	149	89	1061
Sewing-machine shuttle	J. E. Bertrand	620,729	Mar. 7	358	73	86	1571
Sewing-machine shuttle	P. Diehl and M. Hemleb	627,104	June 20	1654	361	87	1972
Sewing-machine shuttle	P. H. Hewitt, E. A. Cockle, and C. Matthews.	628,320	July 4	709	164	88	136
Sewing-machine shuttle	P. H. Hewitt, E. A. Cockle, and C. Matthews.	629,252	July 18	2416	560	88	505
Sewing-machine shuttle	P. H. Hewitt, E. A. Cockle, and C. Matthews.	639,044	Dec. 12	1567	359	89	2192
Sewing-machine-shuttle bobbin	J. Conroy	632,895	Sept. 12	1317	302	88	1981

Alphabetical list of inventions—Continued.

Invention.	Name.	No.	Date.	Monthly volume.		Official Gazette.	
				Spec.	Dr'g.	Vol.	Page.
Sewing-machine-shuttle bobbin-case	O. H. Rudolph	619,791	Feb. 21	1852	422	86	1215
Sewing-machine shuttles. Bobbin-base retainer for	J. Diehl	635,162	Oct. 17	2199	513	89	469
Sewing-machine spool-holding attachment	J. T. Voshell	625,481	May 23	2769	630	87	1299
Sewing-machine spooling device	C. C. M. Wagner	628,874	July 11	1735	405	88	358
Sewing-machine stitch-forming mechanism. Buttonhole-	G. J. Nopper	632,360	Sept. 5	270	63, 64	88	1760
Sewing-machine stop-motion	F. W. Ostrom	622,632	Apr. 4	796	185, 186	87	151
Sewing-machine take-up	W. M. Ammerman	637,744	Nov. 21	3267	681	89	1650
Sewing-machine take-up	S. Williams	634,785	Oct. 10	1486	350	89	312
Sewing-machine tension	J. E. Bertrand	637,225	Nov. 21	1943	415	89	1349
Sewing-machine tension-releasing mechanism	F. I. Stockwell	621,980	Mar. 28	2704	610	86	2064
Sewing-machine thread-controller. Buttonhole-	F. W. Ostrom	626,087	May 30	3946	896, 897	87	1543
Sewing-machine thread-controlling mechanism	J. E. Bertrand	618,372	Jan. 24	2875	638	86	608
Sewing-machine thread-controlling mechanism	J. E. Bertrand	631,924	Aug. 29	4062	912	88	1583
Sewing-machine treadle	H. Cramer	627,101	June 20	1648	360	87	1972
Sewing-machine trimmer	C. Baumann	618,977	Feb. 7	359	73	86	879
Sewing-machine trimmer	P. Diehl and M. Hemleb	619,873	Feb. 21	2000	454	86	1243
Sewing-machine trimmer	C. H. Foster	630,209	Aug. 1	884	191	88	897
Sewing-machine trimming attachment. Looped-fabric-	W. H. Beck	639,502	Dec. 19	2422	559	89	2376
Sewing-machine trimming mechanism	W. A. Neely	628,227	July 4	499	121	88	99
Sewing machine. Tuck-	W. Bowden	628,918	July 18	1827	425	88	393
Sewing-machine work-holder	E. M. Case	620,277	Feb. 28	2700	619	86	1390
Sewing-machine work-holder. Hat-	F. W. Cheetham	626,456	June 6	444	104	87	1700
Sewing-machines, &c. Cabinet for	T. Kundtz and J. Gedeon	619,319	Feb. 14	987	223	86	1022
Sewing machines. Needle-guide for glove-	C. O. Wagner	630,474	Aug. 8	1447	323	88	1019
Sewing, type-writer, or other machines. Cover for-	E. A. Beneke	630,646	Aug. 8	1759	395	88	1078
Shackle	C. Haase	618,086	Jan. 24	2355	526	86	511
Shackle	A. L. Nilson	632,359	Sept. 5	269	63	88	1760
Shackle-spring	C. O. Winkler and G. Wenzel	620,687	Mar. 7	264	54	86	1553
Shade adjuster. Window-	H. M. Sturgis	620,991	Mar. 14	860	187	86	1681
Shade adjuster. Window-	H. M. Sturgis	636,082	Oct. 31	4006	916	89	849
Shade and curtain bracket	G. W. Rush	639,439	Dec. 19	2323	536	89	2355
Shade and curtain hanger. Window	J. Abrahams	617,303	Jan. 3	837	195	86	165
Shade and curtain hanger. Window	J. J. Thomas	639,113	Dec. 12	1697	392	89	2217
Shade and curtain holder. Window	E. McPherson	624,236	May 2	544	116	87	803
Shade and curtain support. Adjustable	C. S. Myers	618,012	Jan. 17	2185	488	86	464
Shade attachment. Window-	A. F. Blake and E. W. Cox	630,170	Aug. 1	827	178	88	886
Shade attachment. Window-	M. Ecker	624,766	May 9	1495	339	87	1014
Shade attachment. Window-	C. E. Garretson	633,582	Sept. 26	2626	614	88	2262
Shade bracket. Adjustable window-	D. M. Miller	634,179	Oct. 3	361	92	89	74
Shade bracket-support. Window-	D. D. O'Connell	625,593	May 23	2968	674	87	1339
Shade-cord tightener. Window-	E. F. Meagher	635,106	Oct. 17	2090	491	89	449
Shade. Curtain-	R. M. Baird	617,799	Jan. 17	1805	403	86	391
Shade-cutter	E. Litten	628,909	July 11	1810	422	88	372
Shade-finder	G. K. Henderson	624,331	May 2	711	158	87	836
Shade-fixture	W. H. Garland	623,535	Apr. 25	2467	568	87	531
Shade fixture. Adjustable window-	F. P. Casey	627,801	June 27	2958	647	87	2248
Shade fixture. Window-	G. W. Horn	629,364	July 25	2626	610	88	566
Shade fixture. Window-	F. B. Moore	639,423	Dec. 19	2290	529	89	2349
Shade fixture. Window-	J. Scarlett	617,190	Jan. 3	627	147	86	122
Shade. Folding	F. H. Babcock	626,821	June 13	1107	248	87	1846
Shade-frame	F. E. Howard	632,120	Aug. 29	4435	997	88	1657
Shade-hanger	S. Gray	620,301	Feb. 28	2751	630	86	1401
Shade-hanger	S. Gray	624,926	May 16	1791	403	87	1089
Shade-hanger	S. Gray	639,895	Dec. 26	3153	725	89	2538
Shade-holder	F. B. Waibel and A. Gross	638,530	Dec. 5	653	136	89	1991
Shade-holder. Adjustable	J. A. Smith	624,259	May 2	576	123	87	809
Shade holder. Window-	O. M. Gawne, C. H. White, and W. E. Cook.	626,785	June 13	1047	235	87	1836
Shade or curtain bracket. Roller	J. Gilchrist	633,239	Sept. 19	1968	461	88	2122
Shade or curtain fixture	L. Williams	626,742	June 13	954	217	87	1817
Shade-roller	S. J. Edmiston	635,070	Oct. 17	2001	473	89	431
Shade-roller	E. F. Hartshorn	627,733	June 27	2834	621	87	2223
Shade-roller	C. F. Jones	633,009	Sept. 12	1496	348	88	2017
Shade roller and lock. Combination	H. M. Sturgis	626,577	June 6	647	150	87	1740
Shade-roller attachment	H. W. Mower	622,968	Apr. 11	1411	325	87	288
Shade-roller bracket	G. E. Allen	618,315	Jan. 24	2779	616	86	591
Shade-roller bracket	W. P. Corson	627,325	June 20	2053	452	87	2054
Shade-roller device	J. H. Kaufman	637,265	Nov. 21	2011	431	89	1302
Shade-support	J. Benzion	622,837	Apr. 11	1181	275	87	243
Shade-support	T. Walsh	620,685	Mar. 7	262	53	86	1553
Shade supporter. Adjustable window-	W. G. Templeton	627,216	June 20	1836	402	87	2009
Shade supporter. Adjustable window-	W. G. Templeton	629,827	Aug. 1	121	29	88	744
Shade-trimmer	D. H. James	623,021	Apr. 11	1512	350	87	308
Shaft and appurtenant harness. Wagon-	A. R. Tirrell	619,003	Feb. 7	402	83	86	888
Shaft and journal-box. Rotary	E. E. Angell	632,083	Aug. 29	4357	979	88	1640
Shaft clutching and releasing device	W. A. Vaughn	626,113	May 30	4016	915, 916	87	1554
Shaft controlling and starting mechanism	G. S. Strong	637,301	Nov. 21	2086	449, 450	89	1377
Shaft-coupling	J. C. Cramp	626,223	June 6	15	4	87	1617
Shaft-coupling	S. E. Diescher	631,956	Aug. 29	4117	924, 925, 926	88	1594
Shaft-coupling	L. D. Lovekin	636,411	Nov. 7	305	69	89	982
Shaft-coupling	E. Müller	630,514	Aug. 8	1516	339, 340	88	1031
Shaft-coupling	C. Warren	620,814	Mar. 7	514	109	86	1602
Shaft-coupling. Antirattler	E. G. Medrick	620,341	Feb. 28	2822	643	86	1413
Shaft-coupling. Buggy	E. F. Holmes	637,610	Nov. 21	3027	623	89	1601
Shaft-coupling. Flexible	H. F. Shaw	628,126	July 4	315	75	88	63
Shaft coupling or clamp	J. R. Ball	639,133	Dec. 12	1728	398	89	2223

Alphabetical list of inventions—Continued.

Invention.	Name.	No.	Date.	Monthly volume. Spec.	Monthly volume. Dr'g.	Official Gazette. Vol.	Official Gazette. Page.
Shaft-coupling. Vehicle	R. Mulholland	621,123	Mar. 14	1104	240, 241	86	1727
Shaft-coupling. Vehicle	A. M. Tebbetts	619,515	Feb. 14	1321	302	86	1088
Shaft. Crank-	G. S. Strong	637,300	Nov. 21	2085	449	89	1376
Shaft. Flexible	W. L. Casaday	636,758	Nov. 14	1013	216	89	1153
Shaft for two-wheeled vehicles	C. F. Carlson	623,462	Apr. 18	2326	533	87	486
Shaft-iron	W. A. Boynton	629,980	Aug. 1	468	101	88	816
Shaft-loop	T. Lee	616,945	Jan. 3	159	36	86	32
Shaft spring appliance	C. Eickmann	620,898	Mar. 14	671	146	86	1647
Shaft-support and thill-coupling. Combined	W. E. Murbarger	627,939	June 27	3208	702	87	2300
Shaft support. Vehicle-	G. W. Carpenter	630,654	Aug. 8	1772	399	88	1081
Shaft. Vehicle-	W. Schenker	629,925	Aug. 1	347	76	88	790
Shafts. Apparatus for making crank-	J. P. Harrington	624,019	May 2	121	27	87	726
Shafts. Device for imparting end play to	H. W. Buck	625,826	May 30	3410	774, 775	87	1442
Shafts. Locking device for securing cams, pulleys, &c., to	F. M. Canda	621,029	Mar. 14	946	206	86	1697
Shafts. Means for detachably securing hubs of crank-arms or like parts to	J. H. Holck	622,686	Apr. 11	925	213	87	195
Shafts. Means for securing crank-arms to	J. Gillet	635,766	Oct. 31	3353	775	89	721
Shafts. Mechanism for operating intermittingly-rotating	H. W. Porter	634,068	Oct. 3	144	38	89	33
Shafts. Regulator for power or propeller	L. Troubetzkoy	639,470	Dec. 19	2378	548	89	2367
Shafting. Core for flexible	J. K. Priest	627,203	June 20	1818	398	87	2005
Shafting, tubing, &c. Construction of hollow	S. Vanstone	620,517	Feb. 28	3101	709	86	1467
Shaker attachment for tumblers, &c	W. Edson	628,904	July 11	1797	418	88	370
Shaking screen and separator	C. W. Parsons	626,090	May 30	3951	898	87	1544
Shank-stiffener molding-machine	W. F. O'Brien and D. S. Keith	629,809	Aug. 1	85	21	88	737
Shank-stiffener molding-machine	E. H. Taylor	635,065	Oct. 17	1992	471, 472	89	429
Shaper and planer driving mechanism	M. Flather	636,127	Oct. 31	4084	935	89	865
Shaping-machine	C. Seymour	619,092	Feb. 7	557	118	86	919
Shaping-machine	C. Seymour	621,621	Mar. 21	1990	444	86	1911
Shaping or other machines. Friction driving device for	W. P. Norton	622,160	Mar. 28	3020	683, 684	86	2129
Sharpener. Band-cutter-knife	J. E. Crowley	617,318	Jan. 10	870	204	86	189
Sharpener. Edge-tool	H. Schipke	632,755	Sept. 12	1037	240	88	1926
Sharpener for edge-tools	J. S. Hoerner	618,008	Jan. 17	2177	486	86	463
Sharpener. Knife-	G. F. Ballou	624,437	May 2	895	202	87	874
Sharpener. Knife-	W. A. Hill. (Reissue)	11,715	Feb. 7	875	193	86	983
Sharpener. Knife-	R. E. Poindexter	620,050	Feb. 21	2306	523	86	1300
Sharpener. Knife or shears	J. F. McGuire and A. H. Harris	628,021	July 4	112	23	88	23
Sharpener. Knife or shears	H. A. Palmer	638,750	Dec. 12	1073	239	89	2096
Sharpener. Machine-drill	J. J. Brossoit	625,140	May 16	2170	493	87	1159
Sharpening cutting-tools of cutters. Machine for	E. A. Wahlström	631,884	Aug. 29	3995	894	88	1570
Sharpening. Device for holding lawn-mower cutters for	S. E. Louden	636,540	Nov. 7	546	120	89	1031
Sharpening dull plowshares. Tool for	T. S. Erskine	629,125	July 18	2201	510	88	466
Sharpening edged tools. Device for	W. Purdy	630,106	Aug. 1	716	154	88	865
Sharpening lawn-mowers. Means for	G. B. French	636,25[illegible]	Nov. 7	44	10	89	933
Sharpening-machine	C. A. Worden	631,842	Aug. 29	3923	877	88	1556
Sharpening rotary cutters. Machine for	N. K. Skow	628,496	July 11	1017	237	88	216
Sharpening scissors, &c. Device for	C. A. Dow	620,021	Feb. 21	2250	511	86	1290
Sharpening-tool	F. A. Humphrey	618,880	Feb. 7	114	24	86	827
Shaving apparatus	I. Mazell	620,474	Feb. 28	3031	693	86	1453
Shaving-cup	C. B. Crofford	625,719	May 23	3179	722	87	1380
Shaving-lather	F. G. Fowler	638,804	Dec. 12	1162	259	89	2113
Shavings-machine	E. Schliesewsky	622,022	Mar. 28	2768	624, 625	86	2078
Shawl-strap or bundle-carrier	R. J. Lay	622,958	Apr. 11	1398	322	87	285
Sheaf-carrier	J. H. Pitkin	637,215	Nov. 14	1918	410	89	1328
Shear mechanism	W. A. Gillmen	630,681	Aug. 8	1817	409	88	1089
Shear mechanism	S. V. Huber	624,496	May 9	1014	228, 229	87	918
Shears: *See* Animal-shears. Hand-shears. Plate-shears. Pruning-shears. Rolling-mill shears. Sheep-shears. Tobacco-shears.							
Shears	F. P. Bixler	627,090	June 20	1624	355	87	1966
Shears	G. M. Clapper	629,339	July 25	2578	598	88	555
Shears	W. C. Heimerdinger	630,537	Aug. 8	1567	349	88	1041
Shears	G. F. Johnson	632,267	Sept. 5	107	23	88	1728
Shears	A. J. Krank	617,964	Jan. 17	2102	471	86	450
Shears	G. Loffi	619,195	Feb. 7	758	164	86	960
Shears	F. Macri	628,483	July 11	999	233	88	213
Shears	L. A. Nickerson	627,738	June 27	2845	623	87	2225
Shears	J. E. Thurmond	624,706	May 9	1389	310	87	992
Shears	J. Yandall	635,457	Oct. 24	2788	637	89	600
Shears and knife. Combined	A. S. E. Metcalf	631,403	Aug. 22	3111	705	88	1386
Shears. Apparatus for making	W. C. Heimerdinger	631,163	Aug. 15	2676	605	88	1282
Shears buttonhole-cutting attachment	A. J. Belohlavek	623,867	Apr. 25	3088	711	87	649
Shears for ripping seams	L. Merrill	619,326	Feb. 14	996	225	86	1025
Shears-joint	J. W. Chapman	624,175	May 2	427	88	87	782
Shears tension device	H. A. Sherman	619,999	Feb. 21	2203	501	86	1281
Sheathing and lath. Combined	O. R. Dahl	626,003	May 30	3785	862	87	1515
Sheave. Self-lubricating	S. Mattson	638,057	Nov. 28	3858	811	89	1788
Shed. Cattle-	W. Heaton	624,330	May 2	709	157	87	836
Sheep-hook	P. I. Moule	634,364	Oct. 3	750	179	89	150
Sheep-shearing machine	O. J. Meacock and H. Penn	625,405	May 23	2642	600	87	1275
Sheep-shears	O. G. Klugel	631,016	Aug. 15	2407	546	88	1230
Sheep-shears. Machine	W. W. Virtue	631,057	Aug. 15	2492	564	88	1247
Sheet and pair furnace. Combined	W. Summers	633,372	Sept. 19	2225	524, 525	88	2171
Sheet carrier. Slip-	J. A. Farrington	629,556	July 25	2987	698	88	637
Sheet-delivery apparatus	W. Scott	633,392	Sept. 19	2266	534	88	2179

Alphabetical list of inventions—Continued.

Invention.	Name.	No.	Date.	Monthly volume.		Official Gazette.	
				Spec.	Drg.	Vol.	Page.
Sheet-feeder	J. H. Smith	636,463	Nov. 7	396	88	89	1000
Sheet-feeding machine	F. L. Cross	633,573	Sept. 26	2593	608	88	2258
Sheet-feeding machine	F. L. Cross	637,324	Nov. 21	2129	459	89	1386
Sheet-feeding machine	J. W. Mansfield	635,792	Oct. 31	3406	786	89	733
Sheet-feeding machine. Automatic	G. F. Leiger	624,229	May 2	529	113	87	800
Sheet-feeding machine. Pneumatic	G. F. Leiger	624,228	May 2	518	111, 112	87	798
Sheet holding and straining device	T. M. North	629,916	Aug. 1	330	74	88	786
Sheet holding and straining device	W. Spalckhaver	629,930	Aug. 1	362	79, 80	88	793
Sheet holding and straining device	W. Spalckhaver	629,931	Aug. 1	365	80	88	794
Sheet holding and straining device	W. Spalckhaver	629,932	Aug. 1	367	80	88	795
Sheet holding and straining device	W. Spalckhaver	629,933	Aug. 1	370	80, 81	88	795
Sheet-metal articles around hard-metal dies. Machine for contracting	W. M. Berry	633,114	Sept. 19	1722	404	88	2072
Sheet-metal blanks. Producing tableware from	C. W. Cook	632,988	Sept. 12	1463	340, 341	88	2010
Sheet-metal-box-making machine	T. L. Carbone	625,872	May 30	3502	793, 794, 795	87	1460
Sheet-metal can	M. E. Marcuse	633,524	Sept. 19	2480	583	88	2220
Sheet-metal can	E. Norton	618,518	Jan. 31	3177	701	86	680
Sheet-metal can	E. Nortou and B. H. Larkin	618,718	Jan. 31	3529	788	86	749
Sheet-metal can-bodies. Machine for flanging	J. Brenzinger	629,650	July 25	3158	736	88	670
Sheet-metal cans or boxes. Manufacture of	F. W. Feaver	619,289	Feb. 14	938	213	86	1012
Sheet-metal-forming machine	E. A. Franklin	618,408	Jan. 31	2983	661	86	645
Sheet metal. Making	E. J. Francis	626,994	June 13	1456	------	87	1915
Sheet metal. Manufacture of	W. M. Theobald	626,847	June 13	1170	261	87	1858
Sheet-metal package	R. C. Russell	634,033	Oct. 3	89	23	89	22
Sheet-metal plates. Apparatus for cleaning and coating	C. C. Roberts	617,656	Jan. 10	1507	343	86	313
Sheet-metal plates. Die for	L. L. Sagendorph	616,976	Jan. 3	205	47	86	40
Sheet-metal plates. Making dies for	L. L. Sagendorph	639,096	Dec. 12	1669	386	89	2212
Sheet-metal-shaping machine	T. Corscaden	630,449	Aug. 8	1392	312	88	1008
Sheet-metal shears	C. A. Bottorff	621,743	Mar. 21	2236	504	86	1960
Sheet-metal tableware. Glazed hollow	E. B. Manning	632,657	Sept. 5	820	190	88	1871
Sheet-metal tube	F. A. Wilmot	621,729	Mar. 21	2203	497	86	1954
Sheet-metal vessels. Bottom for	T. D. Brown	636,752	Nov. 14	1004	214	89	1151
Sheet-metal wheel	G. E. Mittinger, Jr	620,478	Feb. 28	3039	695	86	1455
Sheet-metal-working press	F. M. Leavitt	620,659	Mar. 7	219	45	86	1544
Sheet receiving and drying machine	R. Miehle	636,826	Nov. 14	1132	243, 244	89	1178
Sheet separating and feeding machine. Pneumatic	G. F. Leiger	624,227	May 2	515	109, 110	87	798
Shelf and table. Convertible	F. Yunck	621,888	Mar. 28	2522	567	86	2030
Shelf-bracket	J. E. Twitchell	622,933	Apr. 11	1351	310	87	276
Shelf-bracket	W. H. and F. A. Winslow and J. L. Kail.	618,551	Jan. 31	3234	718	86	691
Shelf-bracket and support therefor	W. H. Newlee	634,091	Oct. 3	187	47	89	41
Shelf. Drop	J. A. Kline	629,299	July 18	2488	580	88	519
Shelf. Swinging flower	A. E. Hudson	619,752	Feb. 21	1758	402, 403	86	1195
Shelf, table, or desk. Folding wall	F. A. Steele	624,115	May 2	319	65, 66	87	761
Shelving	D. E. Hunter	619,417	Feb. 14	1149	261	86	1053
Shelving	J. M. Lippincott and C. S. Hall	617,965	Jan. 17	2104	471, 472	86	450
Shelving. Adjustable	D. E. Hunter	619,416	Feb. 14	1146	260	86	1052
Shelving. Adjustable library	D. E. Hunter	619,418	Feb. 14	1152	261	86	1054
Shelving construction	W. H. and F. A. Winslow	618,530	Jan. 31	3195	706	86	684
Shelving. Library	J. L. Kail	618,510	Jan. 31	3166	699	86	678
Shelving. Library	J. L. Kail	618,511	Jan. 31	3167	699	86	678
Shelving. Library	G. Stikeman	621,172	Mar. 14	1192	259	86	1745
Shelving. Store	M. W. Bieque and A. M. Rivard	636,107	Oct. 31	4043	925	89	857
Shelving. Traveling	A. Symes	629,704	July 25	3247	756	88	687
Shell. Armor-piercing	G. Dittmar	623,707	Apr. 25	2768	633	87	587
Shell. Explosive	J. W. Reno	624,978	May 16	1890	424	87	1108
Shell for high explosives	C. N. Chambers	622,994	Apr. 11	1454	336	87	297
Shell for high explosives	W. S. Isham	622,479	Apr. 4	524	124	87	99
Shell. High-explosive	G. Jared	633,458	Sept. 19	2375	559	88	2200
Shell. Shrapnel	B. W. Dunn	631,703	Aug. 22	3655	824	88	1496
Shells. Buffer for high-explosive	T. R. R. Ashton	634,101	Oct. 3	209	52	89	46
Sheller: *See* Corn-sheller.							
Shield. Built-up	J. Zinn	626,402	June 6	353	82	87	1682
Shingle-planing machine	E. H. Kruger	626,813	June 13	1093	245	87	1844
Shingle-sawing machine	W. E. Brown	630,027	Aug. 1	568	125	88	835
Shingle-sawing machine	F. Challoner	627,391	June 20	2196	483, 484	87	2081
Ship	O. Akerberg	639,334	Dec. 19	2115	485, 486, 487	89	2315
Ship	G. A. Chaddock	628,757	July 11	1530	354, 355	88	319
Ship and propelling apparatus. Steam	C. Sterner	636,467	Nov. 7	402	89, 90	89	1001
Ship. Battle	W. I. Weegar	625,130	May 16	2159	489	87	1157
Ship-fender	F. G. Nielsen	638,469	Dec. 5	547	113	89	1971
Ship sail-rig	A. V. Smith	633,705	Sept. 26	2844	661	88	2305
Ships. Apparatus for ventilating and cooling stoke-holes of steam	M. Robitschek	634,563	Oct. 10	1114	264, 265	89	240
Ships' bottoms. Apparatus for cleaning	M. Elguera	621,047	Mar. 14	976	212	86	1702
Ships' bottoms. Apparatus for cleaning	B. S. Miles	639,079	Dec. 12	1624	373, 374	89	2202
Ships' bottoms. Machine for cleaning	J. Schnepf	633,910	Sept. 26	3190	742	88	2375
Ships' cables. Apparatus for cleaning	B. M. Whitlock	622,833	Apr. 11	1169	271, 272	87	240
Ships' holds. Apparatus for discharging coal into	T. Wrightson	626,956	June 13	1389	306	87	1901
Ships' hulls and keels. Apparatus for cleaning	H. W. Branch	637,702	Nov. 21	3197	664	89	1636

Alphabetical list of inventions—Continued.

Invention.	Name.	No.	Date.	Monthly volume. Spec.	Monthly volume. Dr'g.	Official Gazette. Vol.	Official Gazette. Page.
Ships' hulls. Apparatus for cleaning	W. P. Freeman	634,328	Oct. 3	693	166	89	139
Ships' hulls. Cleaner for	O. E. Inglis	622,232	Apr. 4	58	14	87	15
Ships' hulls. Device for cleaning	G. A. McLane	630,260	Aug. 1	973	214	88	915
Ships' hulls. Device for preventing and removing fouling of	C. E. Quimby	623,961	Apr. 25	3260	750	87	682
Ships' hulls. Diver's stage for cleaning	W. P. Freeman	634,329	Oct. 3	695	166	89	139
Ships' logs. Rotator for	J. L. Bliss	626,406	June 6	363	85	87	1684
Ships. Means for stopping shot-holes in water-tight compartments of	J. L. Maurice and F. Chaplet	617,902	Jan. 17	2007	447	86	430
Ship's pump and wave-motor. Automatic	W. H. W. Hamilton and A. M. Mahany.	624,483	May 9	986	219	87	914
Ship's rudder frame and gear	F. S. Cormier	628,767	July 11	1547	357	88	322
Ships. Side light for	P. Fyfe and A. Phillips	631,292	Aug. 22	2912	659	88	1347
Ship's ventilator	G. M. Eaton and C. F. Bailey	626,152	May 30	4098	{934 935}	87	1570
Ships' ventilators. Automatic valve-closer for	G. J. N. Carpentier	617,077	Jan. 3	417	102	86	81
Shipping and delivery can	D. J. McKay	625,053	May 16	2015	454	87	1131
Shipping-box	O. C. Fenlason	632,345	Sept. 5	245	58	88	1756
Shipping can or package	H. W. Rowland and W. H. Harrison	626,568	June 6	630	145	87	1737
Shipping-case	J. B. Hopper	626,325	June 6	204	50	87	1652
Shipping, dispensing, and displaying case	W. Macdonald	639,746	Dec. 26	2886	665	89	2487
Shirt	W. M. Andrews	620,403	Feb. 28	2920	669	86	1432
Shirt	B. Bernstein	617,307	Jan. 3	843	{196 197}	86	166
Shirt	J. J. Hagedorn	636,523	Nov. 7	517	114	89	1025
Shirt	J. Kohn	625,269	May 16	2396	543	87	1201
Shirt	A. Sinzheimer	631,828	Aug. 29	3895	{870 871}	88	1551
Shirt-band clasp	S. G. Volstad	624,997	May 16	1915	430	87	1113
Shirt-bands and collars. Adjustable fastener for	F. N. Burleigh	625,539	May 23	2871	654	87	1320
Shirt-bosom adjuster	A. D. Murray	634,017	Oct. 3	65	17	89	17
Shirt-bosom holder	C. L. Pashley	632,141	Aug. 29	4476	1007	88	1665
Shirt-bosom retainer	R. Cluett	625,718	May 23	3178	721	87	1380
Shirt-neckband	S. Deutsch	626,985	June 13	1441	317	87	1912
Shirt-neckband	A. Sinzheimer	638,765	Dec. 12	1090	244	89	2100
Shirt-neckband	A. Sinzheimer	638,766	Dec. 12	1092	245	89	2100
Shirt-neckband	A. Sinzheimer	638,767	Dec. 12	1094	245	89	2100
Shirt-waist attachment	C. E. Hurd	633,845	Sept. 26	3081	716	88	2353
Shock-loader	F. Johnson	630,779	Aug. 8	1970	445	88	1120
Shoddy-making machine	E. S. Parks	623,176	Apr. 18	1822	418	87	383
Shoe	J. Azzimonti	621,892	Mar. 28	2527	569	86	2031
Shoe	G. W. Chase	618,553	Jan. 31	3249	721	86	694
Shoe	G. W. Chase	620,278	Feb. 28	2701	620	86	1391
Shoe	G. W. Chase	622,444	Apr. 4	439	102	87	82
Shoe	A. Goldberg	617,701	Jan. 10	1596	360	86	330
Shoe	J. A. Kelly	637,002	Nov. 14	1497	322	89	1249
Shoe	E. Parent	636,353	Nov. 7	211	46	89	963
Shoe	A. H. Riemer	621,287	Mar. 14	1397	310	86	1785
Shoe and fastening device therefor	W. H. Gates	636,515	Nov. 7	496	110	89	1022
Shoe-bottom-burnishing iron	H. F. Rooney	623,288	Apr. 18	2025	465	87	424
Shoe-box	T. R. Mercein and E. R. Porter	618,707	Jan. 31	3513	784	86	746
Shoe-clasp	J. Hodges and C. O. Sohinski	621,415	Mar. 21	1613	358	86	1839
Shoe-fastener	J. W. Barna	636,940	Nov. 14	1372	292	89	1224
Shoe, &c., fastener	H. G. Price	635,184	Oct. 17	2231	520	89	475
Shoe-fastener	A. J. A. Wallen	627,834	June 27	3013	658	87	2258
Shoe-fastener	G. S. Wehber	624,586	May 9	1178	265	87	951
Shoe-fastener	G. S. Wehber	624,587	May 9	1179	265	87	951
Shoe-fastening	E. Bally	626,404	June 6	361	84	87	1683
Shoe-fastening	S. Starkey	633,919	Sept. 26	3201	746	88	2377
Shoe-filler. Extensible	A. G. Guindon	629,853	Aug. 1	181	42	88	756
Shoe-form	W. L. C. Niles	633,293	Sept. 19	2061	483	88	2139
Shoe-holder for polishing	J. T. Brooks	632,776	Sept. 12	1079	250	88	1936
Shoe-holding device	A. G. Kirtland	620,658	Mar. 7	218	45	86	1544
Shoe-inflater	L. Fitzjarrell	622,137	Mar. 28	2980	673	86	2121
Shoe-leveling machine	W. L. Rhodes	637,418	Nov. 21	2311	498	89	1423
Shoe-machine gage	E. E. Winkley	640,064	Dec. 26	3459	{794 795}	89	2603
Shoemaker's jack	A. R. Cooper	631,519	Aug. 22	3330	756	88	1430
Shoemaker's repair jack or last	D. Rounds	639,776	Dec. 26	2947	678	89	2499
Shoe or hoot stretcher	F. G. Pahst	619,835	Feb. 21	1919	437	86	1228
Shoe or glove and fastener for same	H. A. Finsrud and C. E. Ramberg	622,675	Apr. 11	902	206	87	191
Shoe-plate	H. P. Stoy	626,576	June 6	645	150	87	1740
Shoe-polisher	R. D. Voorhees	623,051	Apr. 11	1553	358	87	317
Shoe-polishing bracket	W. S. Fisher	636,326	Nov. 7	167	37	89	954
Shoe-polishing cabinet	A. R. Weyble	628,054	July 4	171	37	88	35
Shoe-protector	C. M. Taylor	638,484	Dec. 5	574	118	89	1976
Shoe-rack	E. E. Canedy	638,443	Dec. 5	490	99	89	1960
Shoe-repairing jack	H. Waters	631,835	Aug. 29	3912	875	88	1554
Shoe. Rubber-soled	W. Dunbar	631,283	Aug. 22	2893	654	88	1343
Shoe-stapling machine	N. S. Wakefield	628,375	July 4	798	{185 186}	88	153
Shoe-stretcher	G. E. Belcher	617,312	Jan. 10	859	202	86	187
Shoe-stretcher	J. M. Forbes and F. H. Beer	620,843	Mar. 7	573	124	86	1615
Shoe-stretcher	D. Portwood	622,390	Apr. 4	322	74	87	61
Shoe-stretcher	R. J. Reim	629,207	July 18	2342	543	88	491
Shoe-stuffer. Pneumatic	F. G. White	619,108	Feb. 7	597	128	86	927
Shoe-tongue	B. L. Blanc	623,350	Apr. 18	2137	491	87	446
Shoe-tree. Fumigating	J. S. Busky	625,143	May 16	2175	494	87	1160
Shoe tree or jack	C. Bleam	619,127	Feb. 7	627	134	86	934
Shoe-treeing machine	A. D. Tyler, Jr.	622,643	Apr. 4	834	193	87	158
Shoe-upper fastener	A. H. Baker	624,287	May 2	631	138	87	819
Shoe valve. Ventilated	J. E. Kennedy	635,101	Oct. 17	2080	489	89	447
Shoe. Ventilated	E. B. Hafertepen	625,393	May 23	2622	596	87	1271
Shoes, &c. Fastener for	G. Barnes	620,532	Feb. 28	3132	{717 718}	86	1473
Shoes, gloves, &c. Fastener for	A. O. Koontz and J. H. Shank	638,725	Dec. 12	1033	231	89	2087

Alphabetical list of inventions—Continued.

Invention.	Name.	No.	Date.	Monthly volume. Spec.	Monthly volume. Dr'g.	Official Gazette. Vol.	Official Gazette. Page.
Shoes. Tongue-guard for	H. M. Stevenson	631,595	Aug. 22	3481	786	88	1461
Shooting-gallery	J. M. Baier	C20,011	Feb. 21	2231	506 507	86	1286
Shooting-gallery	C. B. Jeffers	631,720	Aug. 22	3700	829 830	88	1502
Shoulder-brace	A. Scott	639,446	Dec. 19	2331	538	89	2357
Shoulder-braces and suspenders for stockings	E. Rouse	636,562	Nov. 7	594	131	89	1042
Shoulder-pad	E. F. Gaddis	640,124	Dec. 26	3569	820	89	2626
Shoulder-pad	G. Goldman	621,811	Mar. 28	2368	529	86	2000
Shoulder-pad	G. Goldman	622,765	Apr. 11	1049	243	87	219
Shovel: *See* Mining-shovel. Steam-shovel. Power-shovel.							
Shovel	C. W. Allen	636,738	Nov. 14	983	210	89	1147
Shovel	G. Laws	628,202	July 4	458	110	88	91
Shovel	H. Mikkola	629,456	July 25	2794	650	88	601
Shovel	J. B. Perkins	620,493	Feb. 28	3060	700	86	1458
Shovel	W. D. Rowland	619,230	Feb. 7	815	178	86	972
Shovel	F. S. Rudge	624,547	May 9	1113	251	87	937
Shovel-blades. Manufacturing	W. D. Rowland	621,852	Mar. 28	2443	544	86	2015
Shovel for laying tile	B. F. Wyatt	625,629	May 23	3033	691	87	1352
Shovel, poker, and tongs. Combined	R. G. Cox	629,003	July 18	1975	459	88	422
Shovels. Foot-guard for	A. Klawon	631,255	Aug. 15	2841	641	88	1316
Show-case	D. H. Bragunier	639,141	Dec. 12	1739	401	89	2225
Show-case	R. M. Condrey	634,640	Oct. 10	1231	293	89	262
Show-case	E. Fadum	629,672	July 25	3194	744	88	677
Show-case	F. X. Ganter	638,454	Dec. 5	514	106	89	1965
Show-case	J. Lehnbeuter	638,253	Dec. 5	98	22	89	1885
Show-case	J. Petz	634,701	Oct. 10	1345	318	89	285
Show-case	M. Vold	628,682	July 11	1399	325	88	290
Show-case. Combination	P. Sanger and C. L. Shumate	635,191	Oct. 17	2241	522	89	477
Show-case construction	F. C. Jorgeson	633,345	Sept. 19	2176	510	88	2162
Show-case. Revolving	R. W. Levitt and C. W. Hunt	617,252	Jan. 3	733	170	86	143
Show-fixture	E. Leger	623,377	Apr. 18	2182	501	87	455
Show or display card or label	G. Henckel	635,098	Oct. 17	2076	488	89	446
Show-rack. Folding	R. A. Miller, Jr	638,417	Dec. 5	444	92	89	1950
Shower-yoke. Portable	E. Melchers	638,348	Dec. 5	304	63	89	1924
Shrapnel-ball	B. W. Dunn	631,702	Aug. 22	3654	824	88	1496
Shunt-machine. Continuous-current	A. Sengel	624,986	May 16	1902	426	87	1110
Shutter	G. Roberts	620,969	Mar. 14	818	180	86	1672
Shutter-adjuster	A. D. Buck	633,788	Sept. 26	2981	692	88	2333
Shutter-bolt	H. L. Lapp	618,958	Feb. 7	294	64	86	868
Shutter bower and bolt	A. Breneman	623,877	Apr. 25	3105	715	87	652
Shutter bower and fastener	R. N. Martz	618,701	Jan. 31	3498	781	86	743
Shutter-fastener	J. L. Kendrick	625,304	May 16	2462	560	87	1214
Shutter-fastener	H. Meyer	630,548	Aug. 8	1583	353	88	1045
Shutter-fastener	C. H. Pease	624,080	May 2	242	51	87	748
Shutter-fastener	J. Sabold	639,942	Dec. 26	3233	741	89	2556
Shutter-fastener	A. L. Stetler	620,058	Feb. 21	2317	526	86	1302
Shutter-fastener	F. Wankel	620,553	Feb. 28	3190	730	86	1484
Shutter-fastener	H. M. Wilson	617,548	Jan. 10	1309	295	86	275
Shutter-operating device	F. F. Williams	620,006	Feb. 21	2217	504	86	1284
Shutter operator and fastener	H. Schilling	618,909	Feb. 7	157	34	86	836
Shutter or blind. Window	G. H. Hamalian	629,680	July 25	3209	748	88	680
Shutter or door fastener	H. T. Moody	623,286	Apr. 18	2023	465	87	424
Shutter. Metallic window-	L. F. G. Böekelmann	631,484	Aug. 22	3259	741	88	1416
Shutter-slat holder	W. G. Smith	637,949	Nov. 28	3652	766	89	1748
Shutter-slat-operating means	H. A. Cordray	640,098	Dec. 26	3520	808	89	2615
Shutter-stay	T. A. Weston	640,057	Dec. 26	3446	792	89	2600
Shutter. Window-	H. White	626,449	June 6	434	102	87	1698
Shutter-worker	O. De Champ	636,720	Nov. 7	899	199	89	1107
Shutter-worker	S. L. Powell	632,365	Sept. 5	279	65	88	1762
Shutter-worker	E. Probst	636,555	Nov. 7	570	126	89	1037
Shuttle	E. Felber	621,644	Mar. 21	2088	455	86	1921
Shuttle	E. Gilbert and C. W. Widerstrom	635,720	Oct. 24	3244	748	89	688
Shuttle	G. H. Hamalian	619,170	Feb. 7	713	154	86	951
Shuttle	O. W. Schaum	619,232	Feb. 7	818	179	86	972
Shuttle. Self-threading	E. H. Ryon	639,441	Dec. 19	2325	537	89	2356
Shuttle tension device	J. Nuver	624,670	May 9	1320	294	87	979
Sickle-bar	J. Hahn	631,009	Aug. 15	2392	544	88	1226
Sickle-head	B. F. Williams	637,951	Nov. 28	3657	767	89	1748
Sidewalk-light	A. I. Davis	625,090	May 16	2080	468	87	1142
Sidewalk-light. Prismatic	S. C. McCormack	640,012	Dec. 26	3362	770	89	2582
Sidewalk or floor construction	J. B. French	630,337	Aug. 8	1144	250	88	963
Siding-gage	T. B. Meskill	631,315	Aug. 22	2958	669	88	1356
Sieve for separators, fanning-mills, &c	A. F. Page	632,362	Sept. 5	274	64	88	1761
Sifter	W. H. Moore	629,802	Aug. 1	74	18	88	735
Sifter	J. G. Taylor	627,363	June 20	2142	471	87	2071
Sifter and mixer. Flour	A. D. Smith	634,771	Oct. 10	1469	346	89	309
Sifter. Ash-	C. F. Abbott	627,768	June 27	2895	633	87	2236
Sifter. Ash-	H. Ebert	621,559	Mar. 21	1896	423	86	1893
Sifter. Ash-	S. Hartridge	622,004	Mar. 28	2738	618	86	2072
Sifter. Ash-	J. Keller	637,342	Nov. 21	2173	468	89	1394
Sifter. Ash-	L. E. Pulsifer	632,280	Sept. 5	143	32	88	1735
Sifter. Ash-	H. R. Reynolds	640,028	Dec. 26	3387	776	89	2588
Sifter. Ash-	T. Ross	631,384	Aug. 22	3079	697	88	1380
Sifter. Ash-	F. Spawn	630,943	Aug. 15	2267	517	88	1208
Sifter-drum cleaner	C. H. Oester	624,965	May 16	1867	419	87	1103
Sifter. Flour-	M. J. Denison	619,872	Feb. 21	1999	454	86	1243
Sifter. Rotary ash-	A. Haenichen	634,263	Oct. 3	553	137	89	111
Sifting chute. Ash-	P. J. Hynes	627,735	June 27	2836	622	87	2223
Sign	J. L. Dawes	632,402	Sept. 5	350	79	88	1775
Sign	G. W. and P. G. Howell	619,254	Feb. 7	862	188	86	981
Sign	T. Millen	626,791	June 13	1054	237	87	1838
Sign	W. E. Page	618,949	Feb. 7	278	59	86	864
Sign	E. H. Sentenne and J. E. Green	619,797	Feb. 21	1863	425	86	1217

Alphabetical list of inventions—Continued.

Invention.	Name.	No.	Date.	Monthly volume. Spec.	Monthly volume. Dr'g.	Official Gazette. Vol.	Official Gazette. Page.
Sign	W. M. Webb	626,256	June 6	67	15	87	1627
Sign	C. C. Whelan	634,316	Oct. 3	657	159	89	133
Sign. Advertising-	W. M. Thawley	625,815	May 30	3392	770	87	1439
Sign-board	W. A. Gavett	638,233	Dec. 5	50	12	89	1877
Sign-board	J. J. Woodman	638,434	Dec. 5	476	97	89	1957
Sign bracket. Street-	C. I. Bush	635,842	Oct. 31	3503	805	89	751
Sign. Changeable	W. W. and H. F. Johnson	625,681	May 23	3111	708	87	1367
Sign. Changeable electric-light	H. Tripp and G. E. Stephenson	637,905	Nov. 28	3581	750	89	1734
Sign. Electric	C. A. Chase	626,667	June 13	810	185	87	1790
Sign. Electrical	W. A. Harvey	619,687	Feb. 14	1622	370	86	1144
Sign. Electrically-illuminated	W. T. Bell	622,910	Apr. 11	1310	301, 302	87	267
Sign. Electrically-illuminated	J. E. Lloyd	640,140	Dec. 26	3594	827	89	2631
Sign-holder	W. A. Ulrey	619,639	Feb. 14	1541	351	86	1128
Sign. Illuminated	M. J. Sullivan and M. J. O'Connor	635,202	Oct. 17	2263	528	89	481
Sign. Illuminated display-	C. C. Scott	632,882	Sept. 12	1297	298	88	1977
Sign. Metal	G. H. Tietjen	618,019	Jan. 17	2201	492	86	468
Sign. Revolving	W. W. Metzger	631,470	Aug. 22	3237	734	88	1412
Sign-umbrella	J. H. Rothschild	635,811	Oct. 31	3435	793	89	738
Signs. Device for operating electrically-illuminated	W. T. Bell	636,021	Oct. 31	3852	885	89	819
Signs with intaglio letters or characters. Forming metallic	C. W. Heergeist	633,315	Sept. 19	2125	------	88	2152
Signal: *See* Air-brake signal. Block-signal. Car-signal. Electric signal. Municipal signal. Postal-box signal. Pyrotechnic signal. Railway-signal. Railway-crossing signal. Telephone-switchboard signal. Telephone trunk-line signal. Train-order signal. Visible and audible signal.							
Signal	C. W. Gumbes, Jr	626,903	June 13	1305	287	87	1885
Signal apparatus. Visual	R. Einbigler	632,106	Aug. 29	4407	989, 990	88	1651
Signal-board. Train-order	W. Nichols	634,268	Oct. 3	562	139	89	113
Signal-compensator	E. L. Powell	631,814	Aug. 29	3878	865, 866	88	1546
Signal-controlling track instrument	E. A. Hollaway	618,604	Jan. 31	3322	739	86	709
Signal mechanism	G. B. Gray	631,869	Aug. 29	3967	887, 888	88	1565
Signal mechanism	H. W. Peirce	618,723	Jan. 31	3540	790	86	751
Signal-plate	E. E. Yaxley and C. C. Cadden	640,153	Dec. 26	3616	832	89	2635
Signal-post. Bracket	J. S. Hobson	632,413	Sept. 5	364	83	88	1778
Signal-recording apparatus	W. L. Candee and R. Varley	619,276	Feb. 14	911	205, 206	86	1006
Signal-reminder. Locomotive-cab	J. Murphy and D. W. Bughman	640,011	Dec. 26	3360	769	89	2582
Signal-repeater	T. B. Keeler	625,559	May 23	2913	662	87	1328
Signal system	E. L. and G. Hail	620,547	Feb. 28	3176	728	86	1481
Signal system. Danger-	W. Mayes	634,118	Oct. 3	248	62, 63	89	53
Signal system. Electric	V. T. Kissinger and A. Trunkel	629,792	Aug. 1	55	15	88	731
Signaling and transmission system. Composite	S. D. Field	619,157	Feb. 7	693	148, 149	86	947
Signaling apparatus	F. Burger and H. M. Williams	626,825	June 13	1116	250	87	1848
Signaling apparatus	J. G. Schreuder	638,478	Dec. 5	559	116, 117	89	1974
Signaling apparatus and circuit. Electric	F. B. Herzog	628,464	July 11	961	223, 224	88	204
Signaling apparatus. Controller for electrical train-	W. A. Stambaugh	624,396	May 2	822	185	87	858
Signaling apparatus. Electric	H. B. Taylor	638,606	Dec. 5	789	171	89	2017
Signaling apparatus. Electric block-	H. H. Creamer	630,974	Aug. 15	2335	532, 533	88	1216
Signaling apparatus. Electrical	C. E. Kells, Jr	629,298	July 18	2487	580	88	518
Signaling apparatus for rail or tram ways. Electric	F. W. Prokov	637,414	Nov. 21	2303	496, 497	89	1422
Signaling-circuits. Means for testing	H. C. Bundy	635,010	Oct. 17	1889	449	89	409
Signaling device	B. Behr	630,477	Aug. 8	1451	325	88	1020
Signaling device. Train	W. A. and B. S. H. Harris	628,796	July 11	1605	370	88	334
Signaling. Electric	J. P. Coleman	617,853	Jan. 17	1899	424	86	410
Signaling. Electrical	S. de Jager	626,494	June 6	509	119	87	1712
Signaling. Electrical and selective	J. A. Barrett	637,846	Nov. 28	3459	723	89	1709
Signaling. Method of and apparatus for	R. F. Foster	617,856	Jan. 17	1906	427	86	411
Signaling system. Electric	E. S. Simms	624,390	May 2	812	182, 183	87	856
Signaling system. Electric train-	B. C. Seaton	620,806	Mar. 7	498	105, 106	86	1599
Signature-gatherer	J. B. Mercer	628,829	July 11	1658	384, 385	88	344
Silk fabrics. Manufacture of	J. Ollagnier, M. Fructus, and E. Descher.	625,120	May 16	2141	486	87	1154
Silk fibers. Apparatus for opening	L. B. Magid	631,992	Aug. 29	4186	942	88	1606
Silk, flax, &c. Machinery for dressing	A. Mellor	618,991	Feb. 7	381	80	86	884
Silk. Manufacturing artificial	M. Fremery and J. Urban	617,009	Jan. 3	280	------	86	56
Sill foundation-base	W. J. Callaway	621,027	Mar. 14	942	205	86	1696
Silo	W. B. Cannon	624,751	May 9	1460	330	87	1007
Silo	G. D. Harder	627,732	June 27	2833	621	87	2222
Silver from its haloid salts. Wet process of extracting	L. Vanino	630,951	Aug. 15	2282	------	88	1205
Silvering or gilding solutions to glass, porcelain, &c. Means for applying	A. Barnes	625,733	May 30	3215	731	87	1405
Singeing-machine	R. Atherton	639,493	Dec. 19	2413	457	89	2374
Singletree	J. A. McCain	631,026	Aug. 15	2432	551	88	1235
Singletree	J. M. McManus	634,992	Oct. 17	1863	442	89	403
Singletree	W. P. Murphy	619,904	Feb. 21	2051	465	86	1253
Singletree	R. R. Pigg	621,503	Mar. 21	1786	398	86	1871
Singletree attachment	H. C. Holzheimer	638,120	Nov. 28	4005	843	89	1816

Alphabetical list of inventions—Continued.

Invention.	Name.	No.	Date.	Monthly volume. Spec	Monthly volume. Dr g.	Official Gazette. Vol.	Official Gazette. Page.
Singletree attachment	W. F. Mooney	634,952	Oct. 17	1780	422	89	386
Singletree-clip	F. E. Lack	624,053	May 2	188	41	87	739
Singletree-hook	C. E. Coe	633,230	Sept. 19	1956	459	88	2119
Singletree-hook	J. Mealey	628,276	July 4	611	144	88	118
Singletree-hook	A. R. Sullivan	617,263	Jan. 3	759	177	86	150
Sink	E. W. Ball and L. E. Vacheron	627,070	June 13	1585	347	87	1939
Sink and bath-tub. Combined	F. H. Bertschy	627,174	June 20	1772	388	87	1996
Sink-board	J. Flindall	629,784	Aug. 1	42	11	88	729
Sink-door opener. Automatic	L. S. Safford	632,373	Sept. 5	297	68, 69	88	1765
Sink or basin trap	L. Rasco	623,626	Apr. 25	2630	600	87	561
Sink-trap	A. C. Freed	633,510	Sept. 19	2455	578	88	2215
Sink-trap	T. F. Krueger	625,339	May 23	2537	577	87	1254
Sink-trap protector	J. F. Schultheiss	627,016	June 13	1500	328	87	1924
Sinks, &c. Overflow and waste fixture for	L. Kosiol	630,718	Aug. 8	1870	422	88	1100
Siphon	S. H. Adams	636,610	Nov. 7	677	147	89	1058
Siphon	R. G. Collins	631,736	Aug. 22	3729	837	88	1508
Siphon	H. W. Graham	627,059	June 13	1569	343	87	1936
Siphon. Automatic	C. F. L. McQuistion	624,370	May 2	767	172	87	847
Siphon. Beer-	J. Dreckmann	633,341	Sept. 19	2168	508, 509	88	2160
Siphon-filling apparatus	J. H. Fox	632,521	Sept. 5	573	132	88	1820
Siphon for dispensing carbonated liquids	K. M. Stahl	621,866	Mar. 28	2471	552	86	2022
Siphon-head	J. Ormerod	617,655	Jan. 10	1506	342	86	313
Siphon-head	C. de Quillfeldt	618,616	Jan. 31	3342	743	86	712
Siphon-head	A. Welling and L. Fritz	620,389	Feb. 28	2899	664	86	1429
Sizing	W. A. Hall	623,541	Apr. 25	2481	------	87	534
Skate	E. H. Barney	624,732	May 9	1428	321	87	1000
Skate	T. W. Bryant	622,838	Apr. 11	1182	275	87	243
Skate	S. W. Finch	628,433	July 4	898	210	88	173
Skate clamp-fastening device	E. H. Barney	618,321	Jan. 24	2788	618	86	592
Skate-fastening	E. H. Barney	622,908	Apr. 11	1308	301	87	267
Skate. Ice-	R. Bustin	618,780	Jan. 31	3629	811	86	770
Skate. Ice-	C. F. Filor	617,649	Jan. 10	1498	341	86	312
Skate. Road-	A. N. Lindsley	622,815	Apr. 11	1132	262	87	234
Skate. Roller-	A. G. Bayles	623,761	Apr. 25	2845	652	87	602
Skate. Roller-	R. E. Giljohann	622,218	Apr. 4	39	9	87	10
Skate. Roller-	J. Schade, Jr.	625,276	May 16	2410	546	87	1204
Skate. Roller-	B. Wagner	619,370	Feb. 14	1063	239	86	1037
Skate roller. Roller-	T. Rankin and J. J. Busenbenz	622,391	Apr. 4	324	74	87	61
Skate. Rolling	A. Houée	623,717	Apr. 25	2781	636	87	589
Skate-runner	J. Miner	619,327	Feb. 14	997	225	86	1025
Skate shoe. Combination roller-	M. L. Ruel	617,996	Jan. 17	2158	481	86	459
Skate-wheel	W. Meeker	618,890	Feb. 7	127	28	86	829
Skate wheel. Roller-	O. W. Everett	623,358	Apr. 18	2152	495	87	449
Skein-holder	G. Fishback	634,235	Oct. 3	489	123	89	99
Skewer-making machine	E. J. Kershaw	632,125	Aug. 29	4447	999, 1000	88	1659
Skewer. Meat-	W. S. Shipe	623,571	Apr. 25	2536	583	87	544
Skin or fabric. Flexible	J. H. Stevens	622,727	Apr. 11	983	------	87	206
Skins and transferring fur, feathers, hair, &c., to artificial backings. Unhairing	J. A. Malaisé	639,075	Dec. 12	1616	------	89	2201
Skins. Machine for trimming fat from	J. A. and A. M. Haley	638,238	Dec. 5	62	15	89	1878
Skins or hides. Machine for treating	P. Leyendecker	618,988	Feb. 7	378	79	86	883
Skins. Preserving and tawing	U. de Günzburg	634,337	Oct. 3	710	------	89	143
Skirt and belt supporter	A. M. Tully	634,380	Oct. 3	779	186	89	155
Skirt and waist holder	A. A. Pool	631,380	Aug. 22	3065	694	88	1377
Skirt and waist bolder	J. C. Wheeler and J. J. Duket	637,311	Nov. 21	2106	454	89	1381
Skirt and waist supporter. Combined	W. C. Creveling	635,370	Oct. 24	2572	598	89	557
Skirt and waist supporting device	F. D. and J. E. Howe	625,334	May 23	2526	574, 575	87	1253
Skirt-binder	A. M. Weber	632,382	Sept. 5	320	72	88	1770
Skirt-clasp	C. A. Dunbar	632,342	Sept. 5	242	57	88	1755
Skirt. Cycling-	C. Gibbs	630,498	Aug. 8	1486	332, 333	88	1025
Skirt. Cycling-	R. Skelton	632,592	Sept. 5	696	160, 161	88	1844
Skirt fastener and supporter	H. V. Padfield and J. F. Tumalty	625,350	May 23	2557	581	87	1258
Skirt fastener and supporter. Combined	C. M. Durnell	626,273	June 6	97	25	87	1633
Skirt fastening and supporting device	A. R. Foulke	632,920	Sept. 12	1357	313	88	1989
Skirt-hook	R. J. Fisher	634,105	Oct. 3	226	57	89	49
Skirt. Lady s	J. Gardner	631,849	Aug. 29	3939	881	88	1559
Skirt lifter and supporter	W. H. Wolfe and W. F. Richmond	618,216	Jan. 24	2603	576	86	556
Skirt or garment binding	L. E. Howe	621,089	Mar. 14	1040	228	86	1714
Skirt-protector	B. C. Algeo	621,312	Mar. 21	1453	322	86	1809
Skirt-protector	G. S. Hensel	638,013	Nov. 28	3791	796	89	1775
Skirt-protector	E. Pietschmann	633,483	Sept. 19	2412	568	88	2207
Skirt-protector	J. B. Poyet	621,134	Mar. 14	1134	246	86	1733
Skirt-protector	M. C. Smith	630,572	Aug. 8	1625	362	88	1053
Skirt. Safety hunting-	O. Carlson	631,949	Aug. 29	4101	920	88	1590
Skirt-support and shirt-waist holder. Combined	A. M. Wood	617,792	Jan. 17	1788	401	86	87
Skirt-supporter	S. Benda	631,101	Aug. 15	2570	581	88	1261
Skirt-supporter	A. Bernstein	623,458	Apr. 18	2322	532	87	485
Skirt-supporter	G. L. Blackman	634,196	Oct. 3	390	101	89	80
Skirt-supporter	M. Cahill	624,171	May 2	424	87	87	781
Skirt-supporter	H. V. Heckman	639,173	Dec. 12	1792	415	89	2236
Skirt-supporter	L. J. Jones	625,558	May 23	2913	661	87	1328
Skirt-supporter	W. S. Steele	624,699	May 9	1374	307	87	989
Skirt-supporter	J. H. and I. Taylor	622,731	Apr. 11	987	229	87	207
Skirt-supporter and bustle	P. Schultz	623,432	Apr. 18	2278	522	87	476
Skirt-supporter and shoulder-brace	K. Williams	629,641	July 25	3145	733	88	667
Skirt-supporter and waist-holder. Combined	J. C. Kimsey	636,149	Oct. 31	4116	942	89	872
Skirts. Device for gaging and marking ladies'	I. E. Malarkey	638,875	Dec. 12	1280	291	89	2135
Skiving machine	A. Y. Andrews	621,012	Mar. 14	901	196	86	1688
Skiving-machine	C. H. Bayley	632,984	Sept. 12	1455	338	88	2008
Skiving-machine	B. F. Dunham	632,990	Sept. 12	1466	341, 342	88	2011

Alphabetical list of inventions—Continued.

Invention.	Name.	No.	Date.	Monthly volume. Spec.	Monthly volume. Drg.	Official Gazette. Vol.	Official Gazette. Page.
Skiving machine. Counter-	W. J. Young	620,010	Feb. 21	2225	505, 506	86	1286
Skiving machine. Welt-	E. E. Winkley	620,205	Feb. 28	2589	589	86	1368
Skylight	W. J. P. Kingsley	624,342	May 2	729	162	87	840
Skylight	H. J. Murat	635,052	Oct. 17	1971	467	89	426
Skylight-lifter	S. I. Howard	636,338	Nov. 7	181	40	89	957
Skylight opener or closer	A. S. Brown	618,053	Jan. 24	2272	507	86	496
Skylight-operator	J. D. Thompson	618,257	Jan. 24	2677	593	86	570
Slab	G. D. C. Sprickerhoff	622,026	Mar. 28	2777	626	86	2080
Slag. Apparatus for treating	E. A. Uehling	625,992	May 30	3724	844, 845	87	1503
Slag or cinder pot	J. W. Shook, A. E. Barton, J. J. Shannon, J. Dunn, and E. Ramsay.	618,256	Jan. 24	2675	593	86	570
Slag. Product from blast-furnace	A. D. Elbers	625,656	May 23	3075	------	87	1360
Slag-treating apparatus	C. Diebold	628,399	July 4	840	197	88	161
Slash or bill hook	G. Lovell	639,069	Dec. 12	1607	369	89	2199
Slat-weaving machine	E. Walton	618,925	Feb. 7	204	44	86	844
Slate-cleaner	J. H. Wellborn	623,056	Apr. 11	1560	360	87	319
Slate-frame	G. W. Mitchell	632,821	Sept. 12	1173	268	88	1956
Slate-picker	A. H. Roberts	617,815	Jan. 17	1835	410	86	397
Slate-washer	L. Knott	632,189	Aug. 29	4576	1030	88	1683
Sled	W. A. Hartman	633,085	Sept. 12	1622	377, 378	88	2042
Sled	E. Morgan	634,267	Oct. 3	561	139	89	113
Sled	H. A. Spalding	628,863	July 11	1713	401	88	354
Sled. Bob-	H. MacCloud	628,949	July 18	1879	436	88	403
Sled. Bob-	J. B. Paine	619,433	Feb. 14	1187	268	86	1060
Sled-brake	J. W. James	624,498	May 9	1019	230	87	918
Sled. Farm-	M. Hampton	625,500	May 23	2811	640	87	1308
Sled. Hand-	W. E. Kidder	630,810	Aug. 8	2028	457	88	1133
Sled-roller attachment	F. Lahm	627,001	June 13	1479	324	87	1920
Sled-roller attachment	J. L. Nylander	630,987	Aug. 15	2356	536	88	1220
Sled. Self-propelling traction-	J. C. and N. B. Peterson	617,905	Jan. 17	2013	448	86	431
Sleeping-bag	A. Lapierre	622,812	Apr. 11	1128	261	87	233
Sleeve holder. Coat-	H. Williams	623,058	Apr. 11	1565	361	87	319
Sleeve or cuff protector	D. L. Sterling	635,156	Oct. 17	2190	511	89	467
Sleeves or other like purposes. Device for holding shirt-	A. J. Parber	640,080	Dec. 26	3490	800	89	2609
Sleigh	D. S. Hall	623,244	Apr. 18	1936	444	87	406
Sleigh	H. P. Jensen	635,254	Oct. 17	2350	548	89	497
Sleigh. Bob-	J. Harpman	636,261	Nov. 7	66	15	89	936
Sleigh-brake	A. D. Polleys	628,844	July 11	1680	392	88	348
Sleigh-knee	A. and L. H. Felker	619,470	Feb. 14	1237	282	86	1070
Sleigh-knee	W. J. Stahmann	630,633	Aug. 8	1742	390	88	1075
Sleigh-runner attachment for vehicles	J. E. G. Geisel	621,242	Mar. 14	1315	292	86	1769
Sleigh. Steam-propeller	E. Beaudin	618,771	Jan. 31	3615	808	86	767
Slicer	C. H. Hahn	639,850	Dec. 26	3078	707	89	2525
Slicer and grater for vegetables, fruits, &c	J. W. Hart	639,852	Dec. 26	3080	708	89	2525
Slicing-machine	W. H. Boutell	634,870	Oct. 17	1651	388	89	361
Slicing-machine and feed mechanism	R. G. Mueller	626,764	June 13	999	225	87	1826
Slicing mechanism for bread, &c	J. M. Hoffman	619,415	Feb. 14	1145	260	86	1052
Slide-rest. Revolving	M. Berger	632,230	Sept. 5	3	1, 2	88	1709
Slide. Sheet-metal	J. F. Molloy	634,014	Oct. 3	60	17	89	16
Sliding gate and pulley attachment	M. C. House	632,569	Sept. 5	663	153, 154	88	1837
Sliding gate. Lever-operated	A. Mason	618,112	Jan. 24	2396	534, 535	86	519
Slip-joint. Combination	C. H. Mock and G. W. Smead	626,075	May 30	3917	890	87	1538
Sliver-can marker	E. W. Houghton	623,083	Apr. 11	1613	371	87	329
Slotting and slabbing machine	A. J. Morse	628,410	July 4	855	201, 202	88	164
Sluice. Electrolytic reducing and amalgamating	J. H. Jory	617,024	Jan. 3	309	72	86	62
Sluice, runway, or flume	P. S. Buckminster	630,971	Aug. 15	2329	531	88	1215
Sluice. Water-switch	C. A. Dorrestein	617,927	Jan. 17	2047	458, 459	86	439
Slug or nail strips. Apparatus for making	H. H. Buffum	639,694	Dec. 19	2787	642, 643	89	2450
Smelters. Apparatus for catching waste products from lead, silver, or other	W. Sergeant	626,569	June 6	631	146	87	1737
Smelting-furnace	C. Bishop	623,762	Apr. 25	2846	652	87	602
Smelting-furnace	J. H. Canavan	635,652	Oct. 24	3131	721	89	665
Smelting-furnace	J. V. Otten	633,035	Sept. 12	1550	360	88	2026
Smelting furnace. Metal-	L. Rousseau	621,715	Mar. 21	2172	487	86	1948
Smelting ores	F. Ballou	634,566	Oct. 10	1117	------	89	240
Smelting stack-furnace	C. A. House and F. A. Dupea	621,088	Mar. 14	1038	228	86	1714
Smoke and odor consumer	J. W. Lape	620,870	Mar. 7	622	136	86	1625
Smoke-consumer	J. W. Alexander	621,197	Mar. 14	1231	271	86	1753
Smoke-consumer	F. S. Church	623,353	Apr. 18	2144	493	87	447
Smoke-consumer	R. W. Hamann	619,171	Feb. 7	715	154	86	951
Smoke-consumer	G. S. Huff	630,703	Aug. 8	1848	417	88	1095
Smoke-consumer	W. B. Morris and G. L. Norrman	637,885	Nov. 28	3542	743	89	1727
Smoke-consumer	W. Redpath	623,426	Apr. 18	2270	520	87	474
Smoke-consumer and back-pressure reducer	J. Y. Smith	619,051	Feb. 7	483	100, 101	86	904
Smoke-consumer for furnaces, &c	J. A. Crawford	638,800	Dec. 12	1154	257, 258	89	2111
Smoke-consuming device	E. Fales	627,726	June 27	2824	619	87	2221
Smoke-consuming furnace	G. Langenbach	630,460	Aug. 8	1423	318, 319	88	1014
Smoke-consuming furnace	W. Lutz	617,533	Jan. 10	1282	291	86	270
Smoke-consuming furnace	T. G. Macy	618,011	Jan. 17	2184	488	86	464
Smoke-consuming furnace	A. Newton	631,091	Aug. 15	2555	578	88	1258
Smoke-consuming furnace	A. B. Reck	627,143	June 20	1713	376	87	1984
Smoke-consuming furnace. Self-feeding	C. Groll	637,731	Nov. 21	3245	675, 676	89	1646
Smoke-conveyer and spark-arrester	W. H. Dana	618,787	Jan. 31	3640	813, 814	86	771

Alphabetical list of inventions—Continued.

Invention.	Name.	No.	Date.	Monthly volume. Spec	Monthly volume. Drg.	Official Gazette. Vol.	Official Gazette. Page.
Smoke-conveyers and spark-arresters. Valve for	W. H. Dana	636,640	Nov. 7	730	161	89	1071
Smoke-house	C. A. Glockler	629,351	July 25	2607	605	88	561
Smoke-house. Portable	A. Wulff	632,955	Sept. 12	1410	326	88	2000
Smokeless furnace	T. Brown and B. C. Moore	629,654	July 25	3162	737	88	671
Smokeless furnace	W. H. Smith	621,587	Mar. 21	1934	433	86	1900
Smokeless furnace	C. Timmann	638,034	Nov. 28	3829	805	89	1782
Smoke-preventer	F. B. Griffin	626,690	June 13	868	196, 197	87	1802
Smoke-preventing apparatus	R. H. Burns	617,805	Jan. 17	1813	405	86	392
Smoke-preventing apparatus	R. H. Burns	632,672	Sept. 5	858	200	88	1879
Smoke-stack and spark-arrester	H. C. Clay and M. T. Reeves	623,134	Apr. 18	1735	401	87	366
Smoke-stack attachment	L. F. Porter	637,664	Nov. 21	3123	647	89	1621
Smoke-stack lowering or raising device	J. D. Dailey	627,844	June 27	3035	662	87	2263
Smoker's tray	P. S. Cook	623,768	Apr. 25	2864	656	87	606
Smoking-pipe attachment	H. A. Rohm	630,074	Aug. 1	664	143	88	854
Smoking-tube	J. M. Eder	635,240	Oct. 17	2327	543	89	493
Smoking-tube and cigar-holder. Combined	J. M. Eder	624,768	May 9	1498	340	87	1014
Smoothing or pressing box-iron	M. Elb	618,933	Feb. 7	229	51	86	848
Smut-mill	B. B. Grinley and A. Coleman	633,447	Sept. 19	2357	555, 556	88	2196
Snag-hook. Folding	H. Slotterbeck	637,169	Nov. 14	1821	391	89	1310
Snap. Harness-	J. K. Alwood	628,619	July 11	1244	290	88	261
Snap-hook	C. M. Beard	619,658	Feb. 14	1570	358	86	1134
Snap-hook	C. A. Conger	617,081	Jan. 3	424	103	86	82
Snap-hook	J. C. Covert	620,569	Mar. 7	29	5	86	1508
Snap-hook	G. M. Hubbard	629,689	July 25	3227	751	88	683
Snap-hook	R. W. Hubbard	623,155	Apr. 18	1787	410	87	376
Snap-hook	R. W. Jones	622,770	Apr. 11	1056	245	87	220
Snap-hook	C. E. Smith	618,912	Feb. 7	162	35	86	837
Snap-hook	G. H. Stewart	639,309	Dec. 19	2060	473	89	2303
Snap-hook	J. Wilson	620,396	Feb. 28	2909	667	86	1430
Snap-hook	E. Watkins	629,224	July 18	2364	549	88	496
Snap-hook for fastening reins	E. A. Lynne	637,138	Nov. 14	1768	379	89	1300
Snap-switch	M. Guett	637,246	Nov. 21	1982	424	89	1356
Snap-switch	G. W. Hart	631,304	Aug. 22	2936	665	88	1351
Snout-slitter for swine	J. G. Smith	639,869	Dec. 26	3102	714	89	2529
Snow and ice melting apparatus	S. A. Mijamlin	627,128	June 20	1695	371	87	1981
Snow-guard	E. W. Clark	625,144	May 16	2176	494	87	1161
Snow-guard and slate-fastener	W. T. Russell	618,134	Jan. 24	2448	546	86	529
Snow-melting machine	A. B. Hendryx	636,987	Nov. 14	1460	315	89	1242
Snow or ice into water. Device for converting	E. S. Palmer	634,021	Oct. 3	70	19	89	18
Snow-plow	R. A. Brown	635,993	Oct. 31	3803	875	89	810
Snow-plow	S. G. Bush	629,543	July 25	2968	692	88	684
Snow-plow	H. Herran	617,830	Jan. 17	1863	416	86	402
Snow-plow	J. P. Holley	630,699	Aug. 8	1842	415	88	1094
Snow-plow	G. R. Huff	638,414	Dec. 5	442	91	89	1949
Snow-plow	F. Olson, J. Kaiser, and J. Knivel	629,917	Aug. 1	333	74	88	787
Snow-plow and dumping-cart. Combined	M. J. F. Scanlan	634,274	Oct. 3	575	141, 142	89	115
Snow-scraper	M. Mulder	625,589	May 23	2960	672, 673	87	1337
Snow-shed construction	C. F. McGlashan	620,244	Feb. 28	2645	603	86	1379
Snow. Winter-road machine for clearing	S. F. McCusker	621,935	Mar. 28	2601	587	86	2045
Snuff tablet	W. L. Dudley	639,365	Dec. 19	2187	------	89	2330
Snuff tablets. Manufacturing	W. L. Dudley	639,366	Dec. 19	2188	------	89	2330
Soap and making same	J. Libonati	638,848	Dec. 12	1229	------	89	2125
Soap and soap-holder	C. W. Howe	624,809	May 9	1579	359	87	1031
Soap. Antiseptic	R. Ehrhardt	618,248	Jan. 24	2662	------	86	568
Soap-cutting machine	W. W. Williams	628,507	July 11	1033	240, 241	88	219
Soap-hanger	E. Roenius	617,259	Jan. 3	754	176	86	148
Soap-holder	F. E. Hoffmann	626,540	June 6	589	135	87	1728
Soap-holder	L. S. Rubira	636,454	Nov. 7	376	84	89	997
Soap-holder	J. H. Welch	622,873	Apr. 11	1253	290	87	257
Soap holder and distributer	J. M. Rauhoff	635,592	Oct. 24	3021	693	89	643
Soap. Introducing volatile substances into	H. Schaaf	634,999	Oct. 17	1873	445	89	406
Soap-kneading machine	A. and E. des Cressonnières	617,282	Jan. 3	801	186	86	158
Soap-lock	D. R. McKim	639,199	Dec. 12	1856	427	89	2247
Soap. Making	T. W. Nichols	630,092	Aug. 1	696	------	88	861
Soap. Manufacture of resinous	F. Arledter	627,287	June 20	1971	------	87	2036
Soap. Milling	E. S. Wilson and E. Stewart	623,859	Apr. 25	3076	------	87	647
Soap mixing and kneading apparatus	F. S. Rutschman	628,186	July 4	428	101, 102	88	87
Soap. Preparation of rosin	H. Hampel and V. Zampis	621,777	Mar. 21	2302	------	86	1973
Soap-press	J. J. Forster and R. L. Murdock	638,452	Dec. 5	509	103, 104	89	1965
Soap-press	J. J. Forster and R. L. Murdock	638,453	Dec. 5	511	105, 106	89	1965
Soap. Resin	C. Dreher	634,448	Oct. 10	906	------	89	198
Sod, ballast, and ditch-line marker	J. Vance	627,550	June 27	2497	549	87	2156
Sod-trimmer	P. Gerlach	620,909	Mar. 14	694	152	86	1650
Soda cakes. Making bicarbonate	W. D. Patten	636,448	Nov. 7	365	------	89	995
Soda-fountain	F. W. Williamson	626,315	June 6	175	42, 43	87	1646
Soda-fountain draft-tube	H. L. Willard	617,790	Jan. 17	1786	400	86	386
Sodium bicarbonate. Apparatus for drying	E. Solvay	617,367	Jan. 10	982	226	86	210
Sodium salt of iodin compound	A. Classen	618,167	Jan. 24	2526	------	86	543
Sofa and bed	W. T. Rolph	637,976	Nov. 28	3702	779, 780	89	1757
Sofa. Bed-	A. Martenson	617,754	Jan. 17	1696	381	86	369
Soft-coal furnace	A. W. Glessner	624,009	May 2	102	21	87	723
Soft tread. Composite	C. Olson	637,277	Nov. 21	2031	436	89	1366
Soft-tread composite block	C. Olson	637,741	Nov. 21	3262	680	89	1650
Soil-breaking machine	W. M. Wilkey	637,840	Nov. 28	3447	720	89	1707
Soil for planting. Apparatus for preparing	D. Mackay	617,112	Jan. 3	484	116	86	95
Soil-pipe and roof connection	J. W. Brown	621,320	Mar. 21	1466	324	86	1811
Solar and transit instrument	J. B. Davis	620,427	Feb. 28	2954	677, 678	86	1438

Alphabetical list of inventions—Continued.

Invention.	Name.	No.	Date.	Monthly volume. Spec.	Monthly volume. Dr'g.	Official Gazette. Vol.	Official Gazette. Page.
Solder-cutting machine	W. E. Crocker	629,777	Aug. 1	33	8,9	88	727
Solder for aluminium, &c	C. B. Thwing	638,855	Dec. 12	1244	------	89	2128
Solder. Self-fluxing	J. F. Kester	628,541	July 11	1112	259	88	234
Soldering apparatus. Can-	W. S. Case	630,591	Aug. 8	1661	373	88	1060
Soldering can-bodies. Mechanism for	L. Dyer	635,091	Oct. 17	2062	486	89	444
Soldering-lamp	P. and J. Heinz	620,127	Feb. 28	2446	553	86	1342
Soldering-machine	R. D. Hume	640,136	Dec. 26	3588	825, 826	89	2629
Soldering-machine	E. F. Pflueger	631,125	Aug. 15	2610	590	88	1269
Soldering machine. Can-	W. D. Brooks	632,986	Sept. 12	1459	339, 340	88	2009
Soldering machine. Can-	E. F. Dorsey	619,681	Feb. 14	1606	367, 368	86	1141
Soldering machine. Can-	E. and W. J. Phelps	629,918	Aug. 1	335	74	88	788
Soldering machine. Tin-can-	O. Asche	620,083	Feb. 21	2356	533, 534	86	1310
Soldering-pad	M. Wollman	625,007	May 16	1931	433	87	1116
Sole	H. Marlow	634,361	Oct. 3	747	178	89	149
Sole	A. Sessler	622,825	Apr. 11	1151	265	87	237
Sole. Boot or shoe	G. J. Wright	621,010	Mar. 14	899	196	86	1688
Sole. Cushion-	H. O'Sullivan	628,209	July 4	468	112	88	93
Sole-cutting machine	C. E. Goddard	616,917	Jan. 3	94	20	86	20
Sole-edge-blacking machine	W. C. Evans and H. D. Allard	629,316	July 18	2531	589	88	527
Sole-edge-blacking machine	W. C. Evans, H. D. Allard, and J. B. Kenison.	629,126	July 18	2202	510, 511	88	466
Sole-edge-blacking machine	J. B. Kenison	629,132	July 18	2213	513, 514	88	469
Sole-edge trimmer	E. F. Maxwell	625,115	May 16	2133	484	87	1152
Sole-edge-trimming machine	C. A. Squire	625,068	May 16	2038	458	87	1135
Sole-edge-trimming tool	F. M. Furber	623,710	Apr. 25	2772	634	87	588
Sole. Flexible shoe-	J. Beck	639,651	Dec. 19	2697	620	89	2433
Sole. Lamb's-wool or slipper	S. Borchardt. (Reissue)	11,742	May 23	3207	729	87	1385
Sole. Lamb's-wool shoe-	G. W. Gittens	619,742	Feb. 21	1745	399	86	1193
Sole-laying machine	E. E. Winkley	627,035	June 13	1526	332, 333	87	1928
Sole-laying machine	E. E. Winkley	640,063	Dec. 26	3458	794	89	2602
Sole-molding machine	W. B. Keighley	627,122	June 20	1684	369	87	1978
Sole-pressing machine	E. E. Winkley	627,034	June 13	1522	332	87	1927
Sole rough-rounding and channeling machine	J. E. Bertrand	625,736	May 30	3223	732, 733	87	1407
Sole rough-rounding and channeling machine	J. E. Bertrand	625,737	May 30	3226	733	87	1407
Sole-shanking machine	O. Paquette	621,129	Mar. 14	1124	244	86	1731
Sole. Shoe-	W. B. Arnold	635,118	Oct. 17	2120	496	89	454
Sole. Shoe-	C. H. Wiley	625,821	May 30	3404	773	87	1441
Sole trimming and channeling machine	Z. T. French and W. C. Meyer	630,339	Aug. 8	1147	251	88	964
Sole vulcanizing and applying apparatus. Shoe-	G. F. Butterfield	627,840	June 27	3026	661	87	2261
Soles and heels of boots or shoes. Composition of matter for	F. Gatzsche	636,657	Nov. 7	776	------	89	1079
Soles with plugs. Machine for providing leather	A. Groeschel	637,779	Nov. 28	3332	697, 698	89	1682
Soot-arrester	A. Schaffer	618,439	Jan. 31	3038	671	86	654
Soot-destroyer. Composition of matter for a	D. M. Brubaker	617,700	Jan. 10	1596	------	86	330
Soot-killers. Manufacture of	O. R. Moffet	639,859	Dec. 26	3092	------	89	2528
Sorting bodies according to size. Machine for	P. Pondorf	637,411	Nov. 21	2299	495	89	1421
Sound and device for carrying same into effect. Transmission of	E. Gray	636,520	Nov. 7	510	112, 113	89	1024
Sound-deflector	J. F. Batchelor	630,166	Aug. 1	819	177	88	884
Sound-indicator	C. Salmond	630,990	Aug. 15	2360	537	88	1220
Sound-locating device	A. M. Goodale	631,070	Aug. 15	2515	569	88	1251
Sound recording and reproducing machine	A. C. Clark and E. R. Johnson	624,625	May 9	1245	279	87	964
Sound recording and reproducing machine	E. R. Johnson	634,944	Oct. 17	1763	419	89	382
Sound recording and reproducing machine	H. Jones	628,810	July 11	1630	376	88	339
Sound recording and reproducing machine	H. Jones	628,811	July 11	1633	377	88	339
Sound recording and reproducing machine	H. Jones	628,812	July 11	1635	377	88	340
Sound recording and reproducing machine	H. Jones	628,813	July 11	1636	377	88	340
Sound. Transmission of	E. Gray and A. J. Mundy	636,519	Nov. 7	502	111, 112	89	1023
Sounding apparatus for navigators' use	Z. L. Tanner and J. B. Blish	617,451	Jan. 10	1138	259	86	239
Sounding-board for music-halls	O. L. Apthorp	631,843	Aug. 29	3925	877	88	1556
Sounding-machine	C. W. Wood	630,962	Aug. 15	2304	524	88	1209
Soup-powder and making same	W. B. Gere	625,880	May 30	3519	------	87	1464
Sower. Seed-	H. C. Ziegenhorn and S. C. Guingrich.	635,836	Oct. 31	3495	803	89	749
Spacing mechanism	J. S. Bancroft	617,551	Jan. 10	1313	296, 297	86	276
Spading-machine	A. R. Miskin	639,752	Dec. 26	2895	667, 668	89	2489
Spangle-mixing machine	J. A. Groebli and A. H. Kursheedt	629,073	July 18	2096	489, 490	88	445
Spangled fabric	A. H. Kursheedt	631,310	Aug. 22	2949	667	88	1354
Spanner	C. Baxter	625,716	May 23	3177	721	87	1380
Spanner	R. Hoare	619,414	Feb. 14	1144	260	86	1052
Spanner	C. and H. Marschütz	635,562	Oct. 24	2972	681	89	634
Spark-arrester	W. Rufus and S. H. Krichauff	623,183	Apr. 18	1836	420, 421	87	385
Spark-arrester	N. P. Stevens	622,829	Apr. 11	1157	267	87	238
Spark-arrester	N. P. Stevens	629,096	July 18	2148	499	88	456
Spark-arrester	B. Terfloth	630,273	Aug. 1	993	219	88	919
Speaking-tube. Vehicle	W. Perpente	631,124	Aug. 15	2609	590	88	1269
Spectacle attachment for eyeglasses	J. J. Mundorff	617,595	Jan. 10	1396	317	86	291
Spectacle-case holder	A. S. Kirby	617,962	Jan. 17	2100	471	86	450
Spectacle-frames. Manufacturing	F. A. Stevens	627,018	June 13	1502	328	87	1924
Spectacle-temple attachment	L. F. C. Gieberich	619,163	Feb. 7	705	151	86	949
Spectacles	W. E. Belt	625,083	May 16	2063	463	87	1140
Spectacles	J. McLernon	624,369	May 2	766	172	87	847
Spectacles	C. E. Miehle	633,023	Sept. 12	1522	354	88	2022

Alphabetical list of inventions—Continued.

Invention.	Name.	No.	Date.	Monthly volume. Spec.	Monthly volume. Dr'g.	Official Gazette. Vol.	Official Gazette. Page.
Spectacles	P. Moews	618,118	Jan. 24	2412	538	86	522
Spectacles	F. Schick	634,629	Oct. 10	1218	289	89	259
Spectacles. Frame for measuring	A. J. Lauch	638,727	Dec. 12	1036	232	89	2088
Spectacles or eyeglasses	G. W. Meigs	618,545	Jan. 31	3220	714	86	689
Spectacular machine	J. E. Grosjean	639,810	Dec. 26	3010	693, 694	89	2512
Speculum	W. C. Preston	636,213	Oct. 31	4237	974	89	896
Speculum	C. B. Provins	624,537	May 9	1095	246	87	934
Speculum	W. Scheerer	639,444	Dec. 19	2330	538	89	2356
Speed-changer	H. H. Cummings	623,139	Apr. 18	1748	402, 403	87	368
Speed-changing mechanism	W. D. Hoffman	638,965	Dec. 12	1433	328	89	2166
Speed gearing. Changeable	J. W. Eisenhuth	617,647	Jan. 10	1493	341	86	310
Speed gearing. Changeable	W. C. Iliffe	620,325	Feb. 28	2793	639	86	1408
Speed-indicator	B. Bonniksen	638,903	Dec. 12	1330	302	89	2146
Speed-indicator	H. W. Buck	634,937	Oct. 17	1752	416	89	351
Speed-indicator	L. Compton	622,605	Apr. 4	754	175	87	143
Speed-indicator	W. Moon	627,589	June 27	2567	566	87	2169
Speed-indicator	W. Moon	630,299	Aug. 1	1058	230	88	930
Speed-indicator	D. T. Sharples	620,723	Mar. 7	339	70	86	1567
Speed-indicator	T. von Zweigbergk	629,946	Aug. 1	406	88, 89	88	802
Speed-indicator. Electrical	A. Raps	627,530	June 27	2454	540	87	2148
Speed-indicator for velocipedes, &c	W. G. C. Reed	636,844	Nov. 14	1166	252, 253	89	1185
Speed-measure	C. Oetling	630,555	Aug. 8	1595	356	88	1047
Speed mechanism. Variable	W. L. Schellenbach	638,359	Dec. 5	333	70, 71	89	1929
Speed of direct-current motors. Method of and means for varying	B. G. Lamme	620,335	Feb. 28	2813	642	86	1412
Speed-recorder and odometer	H. G. Sadgrove	636,186	Oct. 31	4185	961	89	886
Speed-reducing mechanism	S. L. Gould	638,181	Nov. 28	4114	869	89	1838
Speed-regulator	G. E. Lob	628,947	July 18	1875	435, 436	88	402
Speed-regulator	J. Natterer	622,011	Mar. 28	2748	620	86	2075
Speed-transmitting device	L. H. Nash	638,668	Dec. 5	894	197	89	2039
Speed-varying mechanism	M. O. Reeves	630,407	Aug. 8	1314	293	88	993
Speeder	W. V. Threlfall	637,047	Nov. 14	1568	338	89	1264
Sphygmometer	H. L. Barnard, J. J. Hicks, and L. E. Hill.	618,049	Jan. 24	2267	505, 506	86	495
Spigot	C. H. Newton	626,082	May 30	3936	894	87	1541
Spigot. Multiple-way	D. Fisher	628,783	July 11	1575	363	88	328
Spigot or valve	J. F. Boyer	627,473	June 27	2353	518	87	2128
Spike	F. Baker	621,737	Mar. 21	2221	500	86	1958
Spike	H. H. Cummings	627,919	June 27	2990	653	87	2254
Spike	D. A. Daly	634,522	Oct. 10	1031	246	89	223
Spike	J. R. Dice	635,846	Oct. 31	3509	806	89	752
Spike	I. L. Edwards	630,673	Aug. 8	1803	406	88	1087
Spike	A. W. Griffith	630,049	Aug. 1	607	132	88	843
Spike	S. W. Higgins	628,537	July 11	1107	258	88	233
Spike	S. W. Higgins	634,413	Oct. 3	835	201	89	167
Spike-extractor	L. Luckhoff	619,424	Feb. 14	1170	263	86	1057
Spike or nail	F. S. Morris	629,266	July 18	2435	564	88	508
Spike-puller	W. Fielden	631,160	Aug. 15	2671	604	88	1281
Spike-puller	F. W. Gerlach	635,924	Oct. 31	3667	846	89	782
Spike-puller	J. A. Hopewell	622,150	Mar. 28	2998	678	86	2125
Spike-puller	E. Judy	636,808	Nov. 14	1109	237	89	1172
Spikes. Making	H. H. Cummings	618,786	Jan. 31	3638	813	86	771
Spindle: *See* Axle-spindle. Cap-spindle. Electrically-driven spindle.							
Spindle	J. Battersby	619,008	Feb. 7	407	85	86	889
Spindle	M. Campbell	628,523	July 11	1082	252	88	228
Spindle	T. W. Cocker	635,660	Oct. 24	3141	724	89	667
Spindle	H. E. Hughes	627,062	June 13	1575	344	87	1937
Spindle-adjusting machine	J. Kilburn	627,582	June 27	2554	562, 563	87	2167
Spindle and bearing	J. Booth	619,930	Feb. 21	2088	474	86	1259
Spindle and bearing	G. O. Draper	632,989	Sept. 12	1465	341	88	2010
Spindle and bearing	G. O. Draper	638,566	Dec. 5	709	151	89	2001
Spindle-bearing	J. W. Collins	629,954	Aug. 1	423	92	88	805
Spindle-bearing	G. O. Draper	625,154	May 16	2191	498	87	1163
Spindle-bearing	J. Kilburn. (Reissue)	11,761	July 25	3354	782	88	708
Spindle bobbin-holder and thread-catcher	O. C. Burr	627,249	June 20	1899	418	87	2021
Spindle-driving bands. Mechanism for guiding and applying tension to	J. Boyd	617,276	Jan. 3	792	183, 184, 185	86	156
Spindle-guard for textile-treating machines	B. N. Goodale	633,956	Sept. 26	3272	763	88	2391
Spindle-lubricating device	E. R. Sattler	638,941	Dec. 12	1394	318	89	2158
Spindle-step. Roller-bearing	T. J. Tellefsen	617,370	Jan. 10	987	227	86	211
Spindle-support	J. A. Miller, Jr	619,899	Feb. 21	2044	463	86	1252
Spinner. Organzine	J. Duffy	631,563	Aug. 22	3421	773	88	1448
Spinners. Self-adjusting spindle for belt	A. Haenichen	638,509	Dec. 5	615	127	89	1984
Spinners. Tension-producing device for twine	G. H. Ellis	621,234	Mar. 14	1302	288	86	1767
Spinning and doubling cotton, &c. Apparatus for	T. Ashworth	620,824	Mar. 7	529	113	86	1606
Spinning and doubling cotton, &c. Apparatus for	T. Ashworth	620,825	Mar. 7	531	113, 114	86	1606
Spinning and doubling frames. Traveler for rings of ring	H. Tetlow	631,342	Aug. 22	2999	680	88	1365
Spinning and doubling frames. Traveling mechanism for ring	P. Bazin	624,738	May 9	1436	324	87	1002
Spinning and twisting machine. Ring	R. McCarthy	625,273	May 16	2406	545	87	1203
Spinning and twisting machine stop-motion	F. Haggas, Sr	636,404	Nov. 7	296	67	89	980
Spinning and twisting machinery	A. D. Emery	617,677	Jan. 10	1538	349, 350	86	319
Spinning apparatus. Progressive	A. D. Emery	617,680	Jan. 10	1550	352	86	321
Spinning device	F. L. White	620,202	Feb. 28	2583	587	86	1367

Alphabetical list of inventions—Continued.

Invention.	Name.	No.	Date.	Monthly volume. Spec.	Monthly volume. Dr'g.	Official Gazette. Vol.	Official Gazette. Page.
Spinning fibrous materials. Self-acting mule for	W. T. Watts and W. Storrs	618,259	Jan. 24	2681	593, 594	86	571
Spinning-frame	S. Berard	622,104	Mar. 28	2904	658	86	2105
Spinning-frame	D. B. Jenks	631,524	Aug. 22	3335	758	88	1432
Spinning-frame	G. W. Knight	621,255	Mar. 14	1334	296	86	1773
Spinning-frame	C. Martinot and A. Galland	621,531	Mar. 21	1840	408	86	1882
Spinning-frame attachment	A. C. Allgood	624,148	May 2	387	79	87	774
Spinning-frame. Ring-	G. H. Leonard and R. L. Reynolds	627,698	June 27	2774	608	87	2210
Spinning-frame yarn-protector attachment	J. C. Wall and M. E. Schedlbauer, Jr.	628,875	July 11	1736	405	88	358
Spinning-frames, &c. Roping-guide for	N. G. Huffstickler	635,686	Oct. 24	3190	735	89	677
Spinning-head	A. D. Emery	617,678	Jan. 10	1542	350, 351	86	320
Spinning-head	A. D. Emery	617,681	Jan. 10	1554	353	86	321
Spinning-jenny	W. H. H. Sisum	625,811	May 30	3382	768	87	1437
Spinning-machine	E. K. Baker	622,836	Apr. 11	1172	272, 273, 274, 275	87	241
Spinning-machine	E. K. Baker	627,634	June 27	2667	585, 586	87	2191
Spinning-machine	J. Buckley	632,172	Aug. 29	4525	1018, 1019	88	1674
Spinning-machine	A. Lepoutre	638,254	Dec. 5	99	23	89	1885
Spinning-machine	J. Marjerison	618,229	Jan. 24	2626	580, 581	86	561
Spinning-machine	W. McMichael	633,964	Sept. 26	3283	765	88	2393
Spinning-machine	H. A. Owen	618,233	Jan. 24	2637	582	86	563
Spinning-machine and process	Ding Cie Sui	626,195	May 30	4185	951	87	1587
Spinning machine. Mule-	W. Bonney	617,141	Jan. 3	546	129, 130	86	107
Spinning machine. Ring-	G. O. Draper	622,180	Mar. 28	3056	693	86	2136
Spinning machine. Ring-	G. O. Draper	622,181	Mar. 28	3058	693	86	2136
Spinning-machine roving stop-motion	F. S. Culver	629,495	July 25	2878	668	88	615
Spinning-machine-spindle bobbin-holder	T. F. Roney	619,506	Feb. 14	1306	300	86	1085
Spinning-machine spindle-support	E. H. Ryon	636,214	Oct. 31	4239	975	89	897
Spinning-machine spindles. Bobbin and thread holder for	O. C. Burr	621,218	Mar. 14	1273	281	86	1761
Spinning-machine traverse-motion	H. A. Owen	637,019	Nov. 14	1527	328	89	1255
Spinning machine. Yarn-	J. H. Northrop	621,426	Mar. 21	1633	363	86	1843
Spinning machinery	A. D. Emery	617,679	Jan. 10	1545	351, 352	86	320
Spinning-machinery flier	J. Good	629,071	July 18	2093	488	88	445
Spinning mechanism	A. D. Emery	617,682	Jan. 10	1557	353, 354	86	322
Spinning-mule	W. Howard	624,939	May 16	1827	410	87	1095
Spinning or other textile machines. Hoop for drop-wires of	W. J. Morgan	639,264	Dec. 19	1971	455	89	2285
Spinning or twisting frame	G. W. Knight and H. W. Bracken	622,649	Apr. 4	847	194	87	161
Spinning or twisting frame end cover	G. W. Knight and H. W. Bracken	618,358	Jan. 24	2852	634	86	604
Spinning-ring	J. Booth	630,584	Aug. 8	1646	368	88	1058
Spinning-ring holder	E. P. Mason	628,825	July 11	1651	382	88	343
Spinning textile fibers. Apparatus for	R. Todd and J. A. Stott	624,132	May 2	343	70	87	765
Spinning textile fibers. Apparatus for	R. Todd and J. A. Stott	624,266	May 2	588	126	87	811
Spirometer	W. T. Barnum	620,633	Mar. 7	156	32	86	1532
Spittoon	F. Trafton	621,872	Mar. 28	2481	554	86	2023
Spittoon. Fountain-	W. A. Inglehart	626,810	June 13	1087	244	87	1843
Spittoon. Sterilizing-	A. Guasco	629,031	July 18	2023	471	88	431
Splicing device	J. E. Barbour	629,761	Aug. 1	5	2	88	722
Spoke-fastening machine	R. O. Stutsman	620,378	Feb. 28	2882	659, 660	86	1425
Spoke-finishing machine	F. Unkrich	624,882	May 9	1716	388	87	1057
Spoke-pin	C. H. Veeder	629,731	July 25	3301	770	88	697
Spoke-socket	T. A. Killinan and A. E. Potter	635,785	Oct. 31	3391	783	89	730
Spoke-socket	W. L. Murray	619,600	Feb. 14	1449	333	86	1110
Spoke-tightener	J. H. and W. D. Player	618,583	Jan. 31	3290	730	86	703
Spoke-tightening apparatus	P. Hontschka	618,415	Jan. 31	2995	663	86	647
Spoke, Wheel-	P. F. White	636,934	Nov. 14	1364	291	89	1222
Sponging device	A. Bray	640,156	Dec. 26	3622	832	89	2636
Spool and needle holder	M. E. Bingaman	632,686	Sept. 5	904	210	88	1889
Spool-box	F. E. Warburton	633,404	Sept. 19	2291	538	83	2183
Spool-box	F. E. Warburton	637,435	Nov. 21	2338	505	89	1429
Spool-carrier	J. Sommer	637,901	Nov. 28	3576	749	89	1733
Spool for webs of paper	H. L. Cowles	637,853	Nov. 28	3470	725	89	1711
Spool-holder	A. Denekas	637,093	Nov. 14	1659	359	89	1280
Spool-holder	M. C. Hromas	634,000	Oct. 3	38	11	89	11
Spool-holder	D. W. McLean	637,276	Nov. 21	2030	435	89	1365
Spool or bobbin. Yarn	T. Sampson	634,738	Oct. 10	1418	394	89	299
Spooling-machine	C. R. Daniels	629,004	July 18	1976	459, 460, 461	88	422
Spooling-machine knot-tying device	T. McVeigh	623,925	Apr. 25	3194	735	87	669
Spooling-machine tube-holder	D. Jackson	619,309	Feb. 14	971	220	86	1019
Spoon and leader box	E. A. Mocker	625,893	May 30	3539	804	87	1467
Spoon. Egg-	G. F. Goodwin	631,713	Aug. 22	3683	825	88	1499
Spoon-holder	J. E. Clark	625,435	May 23	2700	615	87	1286
Spoon-holder	E. D. Milks	637,008	Nov. 14	1507	324	89	1251
Spoon. Medicine-	H. C. Middleton	620,792	Mar. 7	474	98	86	1594
Spoon. Soup-	H. Stevenson	619,363	Feb. 14	1053	236	86	1035
Spout and spouted vessel	W. A. Dunlap	628,652	July 11	1351	315	88	281
Spout. Flexible	W. A. Nutt	622,706	Apr. 11	954	220	87	201
Spout-gate and mechanism for operating same	H. F. Kuss	629,195	July 18	2321	538	88	488
Spout. Single-piece sheet-metal	J. W. Greene	622,222	Apr. 4	46	11	87	12
Spray apparatus	J. Morrison	619,903	Feb. 21	2049	465	86	1253
Spray attachment	R. Orford	624,240	May 2	550	117	87	804
Spray. Garden-	C. Beariks	636,375	Nov. 7	254	56	89	972

Alphabetical list of inventions—Continued.

Invention.	Name.	No.	Date.	Monthly volume. Spec.	Monthly volume. Dr'g.	Official Gazette. Vol.	Official Gazette. Page.
Sprayer	W. H. Allen	638,435	Dec. 5	477	97	89	1958
Sprayer	I. N. Johnson	637,798	Nov. 28	3364	705	89	1689
Sprayer	D. B. Smith	634,962	Oct. 17	1806	428	89	392
Sprayer	E. J. Young	617,847	Jan. 17	1890	421	86	408
Sprayer. Fruit or other tree	F. C. Hutchings	631,115	Aug. 15	2598	586	88	1266
Sprayer. Pneumatic	H. R. Bassler	618,531	Jan. 31	3196	707	86	684
Sprayer. Pneumatic	J. M. Oldham	625,594	May 23	2969	675	87	1339
Spraying apparatus	G. H. Cushing	620,701	Mar. 7	302	61	86	1560
Spraying apparatus	M. L. Johnson	630,713	Aug. 8	1862	421	88	1098
Spraying apparatus	S. H. Pillar	629,269	July 18	2440	565	88	509
Spraying apparatus	W. H. Rice	638,206	Nov. 28	4161	879	89	1848
Spraying apparatus	J. M. Stukes	617,822	Jan. 17	1851	413 / 414	86	400
Spraying device	A. L. Jones	632,186	Aug. 29	4573	1030	88	1683
Spraying device	W. A. Judd	619,257	Feb. 7	865	189	86	981
Spraying device	G. W. Lisk	630,613	Aug. 8	1696	381	88	1067
Spraying device	C. S. Shepard	627,146	June 20	1719	377	87	1985
Spraying device	B. D. Tabor	616,989	Jan. 3	237	54	86	47
Spraying implement. Plant-	A. J. Brummeler	620,272	Feb. 28	2694	618	86	1389
Spraying liquids and powder. Machine for	E. A. Franklin	634,524	Oct. 10	1033	246 / 247	89	224
Spraying-machine	M. B. Brooks	622,664	Apr. 11	883	203	87	187
Spraying-machine	M. B. Brooks	632,801	Sept. 12	1132	261	88	1947
Spraying-machine	W. O. and F. E. Quest	627,877	June 27	3092	677	87	2273
Spraying plants	E. F. Landis	632,418	Sept. 5	373	85	88	1780
Spraying plants, &c. Device for	J. H. Taylor	626,469	June 6	463	109	87	1704
Spring: *See* Bed-spring. Carriage-spring. Door-spring. Elliptic spring. Furniture-spring. Heel-spring. Shackle-spring. Vehicle-spring.							
Spring	F. E. Roberts	633,328	Sept. 19	2149	503	88	2156
Spring	M. L. Senderling	626,873	June 13	1241	273	87	1872
Spring and spring-plate	N. H. Davis	638,498	Dec. 5	599	123	89	1980
Spring-clamp	E. N. La Veine	632,729	Sept. 12	997	232	88	1919
Spring-coupling	H. C. Swan	628,869	July 11	1724	403	88	356
Spring-cushion	A. C. McCord	629,109	July 18	2173	505	88	461
Spring-cushion	A. C. McCord	629,110	July 18	2176	505	88	462
Spring-cushion	H. A. Moyer	637,814	Nov. 28	3392	710	89	1696
Spring for carriage-cushions, beds, &c	I. Teeter and B. E. Sly	634,313	Oct. 3	652	158	89	132
Spring-motor	J. Josefkowicz	630,895	Aug. 15	2184	496	88	1187
Spring-motor	L. R. King	632,465	Sept. 5	464	105	88	1798
Spring-motor	J. B. Powell	638,851	Dec. 12	1238	279	89	2127
Spring-motor	C. Sinclair	628,149	July 4	360	85	88	73
Spring-seat. Folding	F. G. Westland	620,816	Mar. 7	516	110	86	1603
Spring-shackle and oil-distributer	R. A. Hammond	624,327	May 2	706	157	87	836
Spring-supported post	F. Andrew	635,709	Oct. 24	3225	742	89	684
Spring-wheel	G. A. Anderson	624,725	May 9	1416	317 / 318	87	997
Spring-wheel	G. A. Anderson	624,726	May 9	1419	319	87	998
Spring-wheel	G. A. Anderson	624,727	May 9	1420	319	87	999
Spring-wheel	G. A. Anderson	624,728	May 9	1422	320	87	999
Spring-wheel	F. L. and A. Koehler	616,942	Jan. 3	154	34, 35	86	31
Spring-wheel	G. Townsend	620,061	Feb. 21	2321	527	86	1308
Sprinkler: *See* Fire-sprinkler. Lawn-sprinkler. Street-sprinkler. Water-sprinkler.							
Sprinkler	E. D. Etnyre	618,538	Jan. 31	3210	711	86	687
Sprinkler	W. H. Miller	634,899	Oct. 17	1695	400 / 401	89	370
Sprinkler	J. B. Rhodes	639,289	Dec. 19	2021	466 / 467	89	2296
Sprinkler	G. W. and W. H. Weston and M. Ancker.	636,598	Nov. 7	647	142	89	1053
Sprinkler and dirt-wagon. Combined	J. J. Eck	640,118	Dec. 26	3560	818	89	2624
Sprinkler and nozzle. Combined	G. J. Kitzing	619,189	Feb. 7	749	162	86	958
Sprinkler-car	J. B. Kenison	633,597	Sept. 26	2652	619	88	2267
Sprinkler-car	J. B. Kenison	633,598	Sept. 26	2654	619 / 620	88	2267
Sprinkler-cars. Sliding-gate valve for	J. B. Kenison	635,784	Oct. 31	3389	782 / 783	89	730
Sprinkler-head	W. H. Miller	634,900	Oct. 17	1697	401	89	370
Sprinkler-head	W. H. Miller	636,273	Nov. 7	87	20	89	939
Sprinkler-head	H. C. Pollman	622,071	Mar. 28	2844	641	86	2093
Sprinkler-head. Automatic	G. E. Higgins	617,097	Jan. 3	453	110	86	88
Sprinkling apparatus	A. Shedlock and J. A. Hudson	622,547	Apr. 4	655	154	87	124
Sprinkling device	J. H. Loomis	626,495	June 6	515	119	87	1713
Sprinkling-flask, &c., for toilet purposes	K. A. Lingner	629,038	July 18	2034	474	88	434
Sprocket driving-wheel	T. R. Voce and B. Drysdale	622,738	Apr. 11	998	231 / 232	87	209
Sprocket-wheel	N. E. Parish	637,654	Nov. 21	3105	643	89	1618
Sprocket-wheel	J. and W. Titus	639,002	Dec. 12	1516	347	89	2181
Sprocket wheel and chain	J. S. Kidd	616,936	Jan. 3	145	32	86	29
Sprocket-wheel-chain case	H. D. Griswold	628,406	July 4	851	200	88	163
Sprocket-wheel for cycle-chains	G. W. Bufford	619,537	Feb. 14	1351	310	86	1094
Sprocket-wheels. Apparatus for making	N. E. Parish	637,653	Nov. 21	3102	642 / 643	89	1617
Sprocket-wheels. Making	N. E. Parish	637,655	Nov. 21	3106	643	89	1618
Sprocket-wheels to crank-shafts. Means for attaching	B. W. Scott	627,597	June 27	2596	572	87	2176
Spur	J. H. Robinson	625,063	May 16	2030	457	87	1134
Spur	L. W. Turpin	635,948	Oct. 31	3704	856	89	789
Spur. Pole or climbing	M. Butler	628,070	July 4	204	46	88	41
Square	E. L. Winnett	639,125	Dec. 12	1716	395 / 396	89	2221
Square. Bevel-	S. F. Brown and C. Beauchéne	628,753	July 11	1524	352	88	318

Alphabetical list of inventions—Continued.

Invention.	Name.	No.	Date.	Monthly volume.		Official Gazette.	
				Spec.	Dr'g.	Vol.	Page.
Square. Carpenter's	R. H. Miller	634,581	Oct. 10	1142	271	89	244
Square. Draftsman's	W. W. Macfarren	635,050	Oct. 17	1968	466	89	425
Square. Folding	J. G. Zuck	632,799	Sept. 12	1127	260	88	1946
Square. Framing-	W. H. and D. B. Crawford	637,373	Nov. 21	2224	479	89	1405
Square. Framing-	J. A. Van Namee	622,569	Apr. 4	690	160	87	131
Square. Siding-	F. B. Wakeman	621,394	Mar. 21	1584	351	86	1834
Square. Steel	J. B. Robichan	628,853	July 11	1698	396	88	351
Square. Tailor's	J. H. White	626,258	June 6	69	16	87	1628
Squid	H. A. Howard	635,547	Oct. 24	2944	672	89	629
Stacker	W. G. Kruse	619,323	Feb. 14	1167	263	86	1056
Stacker attachment. Automatic straw-	W. C. Wilka	639,840	Dec. 26	3065	704	89	2522
Stacker. Automatic swinging	C. D. Clipfell	620,016	Feb. 21	2243	509	86	1288
Stacker. Hay-	H. Parrent	630,260	Aug. 15	2851	643, 644	88	1318
Stacker. Hay or straw	E. J. Cantwell	631,199	Aug. 15	2728	618	88	1294
Stacker. Oscillating straw-	J. B. McCutcheon	618,947	Feb. 7	275	58, 59	86	863
Stacker. Pneumatic	J. B. Bartholomew	633,559	Sept. 26	2554	600, 601	88	2248
Stacker. Pneumatic	J. B. Bartholomew	633,561	Sept. 26	2567	602, 603	88	2252
Stacker. Pneumatic	W. Chesterson	638,560	Dec. 5	698	148	89	1999
Stacker. Pneumatic	M. T. Reeves, J. N. Kailor, and H. C. Clay.	621,428	Mar. 21	1637	363	86	1844
Stacker. Pneumatic	W. N. Springer	639,187	Dec. 12	1833	422	89	2242
Stacker. Pneumatic	J. A. Walsh	638,191	Nov. 28	4131	873	89	1842
Stacker. Pneumatic straw-	E. Huber and J. W. Miller	633,199	Sept. 19	1877	442	88	2103
Stacker. Pneumatic straw-	G. W. Kramer	633,383	Sept. 19	2250	530	88	2175
Stacker. Pneumatic straw-	F. M. and W. R. Nash	618,898	Feb. 7	138	30, 31	86	832
Stacker. Pneumatic straw-	W. H. Newby	638,878	Dec. 12	1285	292	89	2136
Stacker. Pneumatic straw-	W. J. and A. C. Randolph	617,352	Jan. 10	946	218	86	204
Stacker. Pneumatic straw-	F. Roberts	617,939	Jan. 17	2064	463	86	443
Stacker. Pneumatic straw-	J. K. Sharpe, Jr	639,448	Dec. 19	2334	539	89	2358
Stacker. Straw-	J. B. Bartholomew	633,560	Sept. 26	2561	601, 602	88	2251
Stacker. Straw-	J. Chial	639,711	Dec. 26	2816	650	89	2473
Stacker. Straw-	W. W. Dingee	620,232	Feb. 28	2627	598	86	1375
Stacker. Straw-	G. Fisher	621,237	Mar. 14	1307	289	86	1768
Stacker. Straw-	E. Groven	628,144	July 4	351	83, 84	88	71
Stacker. Straw-	M. Heineke	618,092	Jan. 24	2363	527	86	513
Stacker. Straw-	M. Heineke	631,043	Aug. 15	2464	558	88	1241
Stacker. Straw-	M. Johnson	631,935	Aug. 29	4081	915, 916	88	1586
Stacker. Straw-	W. W. Richardson	635,809	Oct. 31	3432	792	89	738
Stacker. Straw-	H. Stein	632,595	Sept. 5	609	161, 162	88	1844
Stacker. Straw-	A. Van Houweling	626,380	June 6	319	73, 74	87	1675
Stacker. Straw-	J. N. Wilson	630,279	Aug. 1	1002	221, 222	88	921
Stacker. Swinging	J. A. Parkinson	629,301	July 18	2492	581	88	519
Stackers. Turn-table for automatic	J. Galland	617,286	Jan. 3	808	188	86	159
Stacking-machine	R. C. Coble	621,630	Mar. 21	2005	447, 448	86	1914
Staircase. Self-adjusting iron	A. Fuchs	624,782	May 9	1518	345, 346	87	1019
Stair-cushion	P. K. Saponoff	617,449	Jan. 10	1134	258	86	239
Stair-lift	J. M. Dodge	639,154	Dec. 12	1757	406	89	2220
Stair-rod securer	A. L. Carter	640,092	Dec. 26	3508	805	89	2613
Stair-tread	W. H. Winslow	621,398	Mar. 21	1589	352	86	1835
Stairway	G. C. Tilyou	624,405	May 2	840	189	87	802
Stairway or elevator. Moving	L. G. Souder	625,905	May 30	3563	808, 809	87	1471
Stairway-step	H. J. Hamilton	632,715	Sept 12	971	225	88	1913
Stairway-step covering	D. Walker	617,208	Jan. 3	660	154	86	129
Stake-pocket	J. C. Kinsley	616,940	Jan. 3	152	34	86	30
Staking-machine	H. M. Pierce and W. E. Poinsett	623,423	Apr. 18	2265	519	87	473
Staking-machine	I. Vaughn and F. J. Perkins	639,319	Dec. 19	2080	478	89	2309
Stalk and hay rake	E. A. Morris	620,483	Feb. 28	3045	697	86	1456
Stalk and weed puller	J. Conzett	626,966	June 13	1404	309	87	1904
Stalk-cutter	J. A. Dixon	621,229	Mar. 14	1293	286	86	1765
Stalk-cutter	J. J. Mize	621,534	Mar. 21	1848	410	86	1883
Stalk-cutter	J. H. Moss	621,695	Mar. 21	2139	476	86	1942
Stalk-cutter	J. E. Terrell	630,947	Aug. 15	2276	518	88	1204
Stalk-cutter	W. H. Traphagen	629,728	July 25	3296	769	88	696
Stalk-cutter. Revolving	C. Anders	622,589	Apr. 4	734	169	87	139
Stalk-pithing machine	G. R. Sherwood	627,882	June 27	3102	678, 679, 680	87	2275
Stalk-rake	W. L. Whiteley	617,843	Jan. 17	1884	420	86	406
Stalk rake and burner	C. B. Crabtree	632,045	Aug. 29	4288	963, 964	88	1627
Stall. Cattle-	J. M. Hammond	624,795	May 9	1547	352	87	1025
Stall and trough. Adjustable pig	T. R. Hilborn	630,351	Aug. 8	1176	258	88	970
Stall-chain fastening	R. Irving	635,136	Oct. 17	2158	503	89	461
Stall-drain	J. M. Fiske	630,533	Aug. 8	1558	347	88	1039
Stall. Knockdown shipping-	J. O. Bowdish	628,175	July 4	408	96	88	83
Stall. Portable	D. Stitzer	629,726	July 25	3292	768	88	695
Stammering. Device for aiding cure of	R. B. G. Gardner	625,879	May 30	3518	799	87	1463
Stamp-affixer	H. S. and B. F. Klein	637,393	Nov. 21	2264	488	89	1413
Stamp-affixing device	C. A. Sundstrom	635,203	Oct. 17	2266	528	89	481
Stamp-affixing machine	R. W. Parkes	631,510	Aug. 22	3314	753	88	1427
Stamp and recorder. Ticket	C. Nigro	635,178	Oct. 17	2221	517, 518	89	473
Stamp and roller crusher and pulverizer	A. J. Petter	633,248	Sept. 19	1982	465	88	2124
Stamp-batteries. Riffle-plate for ore	H. Tuttle	632,954	Sept. 12	1409	325	88	1999
Stamp-battery mortar	W. A. Merralls	637,471	Nov. 21	2398	520	89	1440
Stamp-battery mortar	W. A. Merralls	637,472	Nov. 21	2399	520	89	1440

Alphabetical list of inventions—Continued.

Invention.	Name.	No.	Date.	Monthly volume. Spec.	Monthly volume. Dr'g.	Official Gazette. Vol.	Official Gazette. Page.
Stamp-battery ore-feeder	C. M. Dobson and T. S. Alexander	622,763	Apr. 11	1045	242	87	218
Stamp-box	J. W. Cherry	619,719	Feb. 21	1702	389	86	1185
Stamp cutter and canceling machine	J. Eichert	627,331	June 20	2061	454	87	2055
Stamp. Dry ore-	M. Weber	617,824	Jan. 17	1854	414	86	400
Stamp. Hand-	F. J. Becker	639,959	Dec. 26	3277	750	89	2565
Stamp. Hand-	J. Cooke	628,766	July 11	1545	357	88	321
Stamp. Hand-	H. H. Harrison	632,113	Aug. 29	4422	993, 994	88	1654
Stamp. Hand-	J. A. Heany	622,043	Mar. 28	2803	632	86	2085
Stamp. Hand-	J. A. Heany	624,020	May 2	123	28	87	726
Stamp. Hand-	J. A. Heany	624,932	May 16	1817	408	87	1093
Stamp. Hand-	J. A. Heany	630,222	Aug. 1	909	199	88	902
Stamp. Hand-	B. B. Hill	620,922	Mar. 14	711	157	86	1653
Stamp. Hand-	B. B. Hill	627,734	June 27	2835	621	87	2223
Stamp. Hand-	L. K. Scotford	634,371	Oct. 3	760	181	89	152
Stamp. Hand-	R. H. Smith	636,077	Oct. 31	3997	914	89	847
Stamp. Hand-	R. H. Smith	638,187	Nov. 28	4125	872	89	1841
Stamp-handle	H. A. Alm	632,668	Sept. 5	851	198	88	1878
Stamp handle. Hand-	G. W. Duncklee	C21,997	Mar. 28	2731	617	86	2071
Stamp holder and binder	J. E. Harris	634,454	Oct. 10	916	219	89	200
Stamp. Mail-	T. H. Stokes	621,383	Mar. 21	1569	348	86	1830
Stamp. Marking-	T. H. Sorlien	623,048	Apr. 11	1547	358	87	316
Stamp-mill	W. H. Lloyd	634,894	Oct. 17	1689	399	89	368
Stamp-mill	A. C. Pratt and C. A. La Grave	634,417	Oct. 3	841	202, 203	89	168
Stamp-mill. Annular	F. L. Preston	620,962	Mar. 14	800	176	86	1669
Stamp-mill journal-box	T. W. Capen	628,447	July 11	934	217	88	199
Stamp-mill screen	M. R. Driscoll	629,242	July 18	2395	555	88	501
Stamp rack. Rubber-	H. S. Folger	624,919	May 16	1782	402	87	1087
Stamp. Tag, box, or sign	E. R. Jones	628,147	July 4	355	84	88	72
Stamp. Time-	S. H. Hoggson	628,323	July 4	713	165	88	137
Stamp. Time-	E. R. Malmborg	629,580	July 25	3033	708	88	646
Stamp. Time-	J. C. Wilson	637,315	Nov. 21	2110	455, 456	89	1382
Stamps into strips. Machine for cutting sheets of	F. J. Hewitt and C. H. Bridoux	638,014	Nov. 28	3792	796, 797	89	1775
Stamping and sealing machine. Envelop	L. M. Nielsen	627,590	June 27	2569	567, 568	87	2170
Stamping-machine	M. E. Biersach	632,548	Sept. 5	636	148	88	1832
Stamping-machine	H. Reiber and F. Petsch	637,031	Nov. 14	1547	333	89	1259
Stamping machine. Envelop-	L. M. Nielsen and C. A. Madsen	627,591	June 27	2577	568, 569	87	2172
Stamping machine. Time-	G. E. Emerson	637,721	Nov. 21	3226	671	89	1642
Stamping-mills. Tappet for	G. W. Waitt	631,535	Aug. 22	3354	763	88	1435
Stamping-press	O. Mergenthaler	636,916	Nov. 14	1327	284, 285	89	1215
Stamping-press	R. F. Sproule	640,041	Dec. 26	3419	784	89	2594
Stanchion	D. S. Mawson	632,017	Aug. 29	4230	952	88	1616
Stanchion	E. Prescott	619,222	Feb. 7	801	175	86	969
Stanchion. Cattle-	W. D. Case	633,799	Sept. 26	2994	696	88	2336
Stanchion. Cattle-	O. H. Robertson	634,477	Oct. 10	955	227	89	208
Stand: *See* Adjustable stand. Bicycle-stand. Christmas-tree stand. Display-stand. Drum-stand. Exhibiting-stand. Fitting or draping stand. Flower-stand. Hat-stand. Ink-well stand. Mirror-stand. Music-stand. Portable stand. Reading-stand. Toilet-article stand. Tripod-stand. Washstand.							
Stand or support	H. T. Loomis	620,943	Mar. 14	756	165, 166	86	1661
Stand-pipe and fire-escape. Combined	H. Vieregg	628,872	July 11	1733	404	88	357
Standard-holder	K. Gentner	626,607	June 6	692	160	87	1749
Staple-fastening	E. Andrews	628,380	July 4	805	187	88	154
Staple forming and driving apparatus	B. A. and B. J. Grasberger	620,444	Feb. 28	2989	684	86	1445
Staple forming and driving machine	F. P. Rosback	630,303	Aug. 1	1063	231, 232, 233	88	931
Staple-lock	J. E. Crook	625,290	May 16	2438	555	87	1209
Staple. Screw-	W. F. Schall	628,612	July 11	1230	287	88	258
Staple-setting implement	C. H. Schmidt	629,473	July 25	2833	657	88	608
Staple-setting machine	C. Sebastian	634,859	Oct. 10	1631	381	89	339
Staple-setting machine	A. D. Thomas	634,676	Oct. 10	1299	306	89	276
Staples. Hand-tool for forming	B. F. Kernodle	632,31[illegible]	Sept. 5	193	44	88	1745
Stapling-machine	A. H. Buchholz	621,748	Mar. 21	2245	506, 507	86	1962
Stapling-machine	L. L. Miller	638,256	Dec. 5	102	23, 24	89	1886
Stapling-machine	F. H. Sander	637,288	Nov. 21	2047	439, 440	89	1369
Starch. Manufacture of	T. Gaunt	638,707	Dec. 12	994	221	89	2079
Starching-machine	A. T. Hagen and D. M. Cooper	625,973	May 30	3686	837, 838	87	1495
Starching-machine	W. Hess, Jr.	634,346	Oct. 3	724	172, 173	89	145
Starching-machine	G. B. Wheeler	634,711	Oct. 10	1366	322	89	290
Start or stop motion mechanism	A. A. Merritt	630,298	Aug. 1	1055	229, 230	88	930
Starting or stopping mechanism	J. Campbell	630,031	Aug. 1	579	126, 127	88	837
Starting-switch	J. W. Gibbs	638,110	Nov. 28	3975	836	89	1809
Starting-switch. Multiple-blade	G. S. Dunn	638,627	Dec. 5	830	179, 180	89	2025
Station-indicator	F. H. Cheyne	623,202	Apr. 18	1865	427	87	391

Alphabetical list of inventions—Continued.

Invention.	Name.	No.	Date.	Monthly volume. Spec.	Monthly volume. Dr'g.	Official Gazette. Vol.	Official Gazette. Page.
Station-indicator	W. B. Colclazer and P. C. Munger	618,600	Jan. 31	3317	738	86	708
Station-indicator	C. E. Cole	618,813	Jan. 31	3696	827	86	782
Station-indicator	H. A. Hackeling	625,553	May 23	2903	660	87	1326
Station-indicator	T. C. Neeger	616,954	Jan. 3	169	39	86	34
Station-indicator	A. C. and C. T. Osenbach and W. H. Bregenzer.	618,185	Jan. 24	2558	565	86	548
Station-indicator	F. H. Rees	629,605	July 25	3082	718	88	655
Station-indicator	R. Sperber	618,298	Jan. 24	2748	609, 610	86	585
Station-indicator	W. M. Vaughan	636,393	Nov. 7	282	63	89	978
Station-indicator for railway-cars. Automatic	A. Hunter and C. Gustafson	623,215	Apr. 18	1888	433, 434	87	396
Station-indicators. Electric actuating mechanism for	A. Hunter and C. Gustafson	623,906	Apr. 25	3160	728	87	663
Station potential-indicator	R. D. Mershon	629,584	July 25	3044	710	88	648
Stave. Barrel-	E. M. Thompson	626,819	June 13	1103	248	87	1845
Stave-jointing machine	C. W. Smith	620,000	Feb. 21	2204	502	86	1281
Staves, &c. Automatic grooving, tenoning, and beveling machine for barrel-	E. P. Böttcher	630,824	Aug. 8	2052	462, 463	88	1138
Stay-bolt	J. M. Bailey	630,161	Aug. 1	812	175	88	883
Stay-wire-applying device	C. C. Olson	633,894	Sept. 26	3158	733	88	2369
Steam and gas engine. Combination	G. Dahlberg, J. Clicquennoi, and E. Uhlin.	633,339	Sept. 19	2166	507, 508	88	2160
Steam and hot-water boiler	W. Kane	620,931	Mar. 14	732	162	86	1657
Steam and hot-air heater. Combined	J. Demarest	624,189	May 2	449	93	87	786
Steam. Apparatus for regenerating exhaust-	H. J. Barron	619,119	Feb. 7	609	130, 131	86	930
Steam. Apparatus for regenerating exhaust-	H. J. Barron	619,120	Feb. 7	613	131	86	931
Steamboat	D. Fletcher	624,318	May 2	691	152	87	833
Steamboat-stacks. Device for raising or lowering	A. Jacobs	635,487	Oct. 24	2839	648	89	609
Steam-boiler	P. W. Burke	626,526	June 6	563	130	87	1723
Steam-boiler	W. H. Cook	639,530	Dec. 19	2472	570	89	2386
Steam-boiler	L. Doerr and J. Munroe, Jr	631,006	Aug. 15	2383	543	88	1225
Steam-boiler	F. M. Faber	626,754	June 13	977	221	87	1822
Steam-boiler	J. T. Fanning	635,923	Oct. 31	3665	846	89	782
Steam-boiler	S. Fraser	618,501	Jan. 31	3145	695	86	675
Steam-boiler	R. Gregg	624,791	May 9	1534	349	87	1022
Steam-boiler	V. Hanson	622,352	Apr. 4	263	60, 61	87	50
Steam-boiler	E. Ingraham	638,930	Dec. 12	1378	314	89	2155
Steam-boiler	D. P. Jones	634,299	Oct. 3	616	151	89	124
Steam-boiler	S. Lindersmith	632,839	Sept. 12	1200	274	88	1961
Steam-boiler	E. McConville	638,397	Dec. 5	405	85	89	1943
Steam-boiler	C. R. Moore	620,947	Mar. 14	765	167	86	1663
Steam-boiler	C. R. Moore	620,948	Mar. 14	767	168	86	1663
Steam-boiler	L. O. Morgan	623,170	Apr. 18	1813	415	87	381
Steam-boiler	R. J. O'Neill	620,168	Feb. 28	2507	570	86	1354
Steam-boiler	C. C. Peck	630,560	Aug. 8	1603	358, 359	88	1048
Steam-boiler	C. C. Peck	632,277	Sept. 5	137	30, 31	88	1734
Steam-boiler	C. B. Rearick	639,907	Dec. 26	3168	730	89	2542
Steam-boiler	J. W. Richards and W. E. Shipley	617,050	Jan. 3	376	91	86	72
Steam-boiler	M. Rinkel	637,034	Nov. 14	1552	334	89	1260
Steam-boiler	J. Sandquist	632,589	Sept. 5	690	159, 160	88	1843
Steam-boiler	B. T. Stauber	617,261	Jan. 3	758	177	86	149
Steam-boiler	J. A. Stevens	619,098	Feb. 7	568	121	86	922
Steam-boiler	J. J. Tonkin	621,437	Mar. 21	1655	366	86	1847
Steam-boiler	R. White	626,118	May 30	4029	920	87	1556
Steam-boiler and furnace	H. Barton	632,624	Sept. 5	745	170, 171	88	1854
Steam-boiler and furnace	G. L. Burkett	620,566	Mar. 7	15	3	86	1505
Steam-boiler. Horizontal	F. Jones	621,420	Mar. 21	1624	361	86	1842
Steam-boiler. Horizontal tubular	E. Kendall	617,510	Jan. 10	1228	279, 280	86	259
Steam-boiler. Portable	S. Lindersmith	638,415	Dec. 5	443	91	89	1950
Steam boiler or generator	A. Teste	620,994	Mar. 14	865	188	86	1682
Steam-boiler. Tubular	T. C. Billetop	625,314	May 23	2486	564	87	1245
Steam-boiler. Vertical tubular	E. Kendall	617,509	Jan. 10	1226	278, 279	86	259
Steam-boiler. Water-tube	J. B. Furneaux	637,862	Nov. 28	3507	732	89	1719
Steam-boiler. Water-tube	J. Provuncher	617,298	Jan. 3	830	193, 194	86	164
Steam-drier. Rotary	P. H. Grimm	621,074	Mar. 14	1012	222	86	1709
Steam-engine	A. Blaha	632,088	Aug. 29	4270	960	88	1623
Steam-engine	P. Cunningham	631,777	Aug. 29	3818	850, 851	88	1535
Steam-engine	J. C. Dean	632,677	Sept. 5	876	204, 205	88	1883
Steam-engine	J. R. Dishner and A. M. Lindsey	622,762	Apr. 11	1044	242	87	218
Steam-engine	H. E. Gamble	632,010	Aug. 29	4220	949, 950	88	1614
Steam-engine	F. W. Gordon	628,089	July 4	241	54, 55	88	48
Steam-engine	G. J. L. Henry	628,091	July 4	246	56, 57	88	49
Steam-engine	W. Huggins	627,854	June 27	3049	666, 667	87	2266
Steam-engine	J. A. Hyter	639,854	Dec. 26	3083	709	89	2525
Steam-engine	E. McConville	628,953	July 18	1887	438	88	404
Steam-engine	I. N. Moore	624,233	May 2	537	115	87	801
Steam-engine	A. and D. Murphy	621,460	Mar. 21	1711	380	86	1858
Steam-engine	W. Pepperling	625,195	May 16	2257	513	87	1176
Steam-engine	J. W. Powers	624,536	May 9	1094	246	87	934
Steam engine	J. B. Rhodes	616,973	Jan. 3	199	46	86	39
Steam-engine	J. H. Street	636,929	Nov. 14	1354	289	89	1220
Steam-engine	A. Stephens	624,700	May 9	1375	307	87	989
Steam-engine	J. I. Thornycroft	617,889	Jan. 17	1972	440, 441	86	434

Alphabetical list of inventions—Continued.

Invention.	Name.	No.	Date.	Monthly volume.		Official Gazette.	
				Spec.	Dr'g.	Vol.	Page.
Steam-engine	J. B. West	622,577	Apr. 4	705	164	87	134
Steam-engine	W. D. Wight and M. B. Wild	628,974	July 18	1918	446 447	88	410
Steam-engine	C. C. Worthington	628,511	July 11	1049	245 246	88	222
Steam-engine	H. A. Zinn	639,644	Dec. 19	2684	615	89	2430
Steam-engine. Atmospheric	F. M. Leavitt	639,744	Dec. 26	2881	664	89	2487
Steam-engine for direct-acting pumps	G. de Laval	627,304	June 20	2005	441	87	2043
Steam-engine. Rotary impact or turbine	J. M. Seymour, Jr	621,586	Mar. 21	1930	432	86	1900
Steam-generating appliance	E. L. Rigg	631,822	Aug. 29	3888	868	88	1549
Steam-generator	D. Almy	624,607	May 9	1215	273	87	958
Steam-generator	J. Brotan	621,442	Mar. 21	1664	368 369	86	1848
Steam-generator	J. H. Fournier	619,160	Feb. 7	700	150	86	948
Steam-generator	H. L. Freeman	631,209	Aug. 15	2751	622	88	1298
Steam-generator	J. L. Gordon	624,476	May 9	976	216 217	87	911
Steam-generator	G. H. Hardie and N. Thompson	639,973	Dec. 26	3299	755 756	89	2570
Steam-generator	C. Q. Hayes	626,163	May 30	4123	939	87	1575
Steam-generator	C. H. Kenney	635,019	Oct. 17	1901	452	89	411
Steam-generator	J. R. Mackay	637,628	Nov. 21	3060	633	89	1609
Steam-generator	G. A. Nussbaum	636,837	Nov. 14	1152	248 249	89	1182
Steam-generator	K. Park	627,521	June 27	2434	535 536	87	2144
Steam-generator	J. C. Parker	628,606	July 11	1222	286	88	256
Steam-generator	G. W. Shields	634,277	Oct. 3	580	143	89	115
Steam-generator	W. M. Smith	620,807	Mar. 7	501	106 107	86	1600
Steam-generator	J. E. Thornton and J. P. Lea	622,404	Apr. 4	352	82	87	66
Steam-generator	J. E. Thornycroft	639,952	Dec. 26	3255	745 746	89	2560
Steam-generator and hot-water heater	W. C. Higgins	619,412	Feb. 14	1140	258 259	86	1051
Steam-generator and hot-water heater	W. C. Higgins	619,413	Feb. 14	1143	259	86	1052
Steam generator and superheater	H. Cruse	638,006	Nov. 28	3775	793	89	1771
Steam-generator burner	F. E. and F. O. Stanley	637,176	Nov. 14	1836	393	89	1312
Steam-generator feeder	W. Kouznezoff	627,510	June 27	2416	531 532	87	2140
Steam-generator for thawing frozen ground	E. Hubbell	622,364	Apr. 4	285	66	87	55
Steam-generator. Internal-combustion	A. A. Fessler	635,095	Oct. 17	2072	487	89	445
Steam-generator. Sectional	O. T. Earle and C. W. Newton	621,557	Mar. 21	1893	421 422 423	86	1892
Steam-generator. Sectional	W. D. Hoxie	638,716	Dec. 12	1008	226	89	2082
Steam-generator water-return system	E. P. Holly	617,100	Jan. 3	458	111	86	90
Steam-generator. Water-tube	D. Almy	624,606	May 9	1213	273	87	957
Steam-generator. Water-tube	A. Langton	618,693	Jan. 31	3488	779	86	741
Steam-generator. Water-tube	J. A. Pattison	637,406	Nov. 21	2292	493	89	1419
Steam-generator. Water-tube	F. Windham	629,882	Aug. 1	215	55	88	768
Steam-generators. Forced-draft system for	W. D. Hoxie	638,717	Dec. 12	1009	226	89	2083
Steam-heater	F. M. Radke	628,848	July 11	1691	394	88	350
Steam impregnated with herbs or other extracts. Apparatus for and process of producing	J. Wezel	639,878	Dec. 26	3116	716	89	2531
Steam. Means for regenerating exhaust-	S. Prager	640,151	Dec. 26	3614	831	89	2635
Steam or hot-water generator	J. L. Chapman	617,393	Jan. 10	1035	235	86	220
Steam-pipes for heating dry-kilns	C. M. Cunliffe	626,410	June 6	366	86	87	1684
Steam-power system	T. C. Bright	619,715	Feb. 21	1694	387 388	86	1183
Steam-pressure generator	A. T. Welch	634,841	Oct. 10	1589	373	89	333
Steam-separating trap	J. R. Cox, W. H. Reynolds, and G. H. Wright.	634,659	Oct. 10	1272	300 301	89	271
Steam-separator	C. W. Baker	630,024	Aug. 1	561	123 124	88	834
Steam-separator	R. C. Carpenter	622,757	Apr. 11	1032	240	87	216
Steam-separator	R. Hutchison	619,308	Feb. 14	969	219	86	1019
Steam-separator	W. C. Jennings	633,760	Sept. 26	2937	682	88	2323
Steam-separator	J. E. Sweet	624,575	May 9	1163	261	87	948
Steam-separator and grease-extractor	J. J. J. De Rycke	617,480	Jan. 10	1182	269	86	249
Steam-shovel	A. W. Robinson	632,368	Sept. 5	285	66	88	1763
Steam shovel or excavator	P. N. Jonte	633,850	Sept. 26	3087	717	88	2354
Steam-superheating device	J. Grubinski	620,704	Mar. 7	309	62	86	1561
Steam-superheating furnace	F. L. Slocum	629,094	July 18	2144	498	88	456
Steam-trap	E. Amodeo-Salvator	633,180	Sept. 19	1846	434 435	88	2097
Steam-trap	A. J. Bayley	630,308	Aug. 1	1074	234	88	933
Steam-trap	H. F. Cook	633,809	Sept. 26	3009	699	88	2339
Steam-trap	E. E. Gold	632,937	Sept. 12	1382	320	88	1994
Steam-trap	E. Hippard	638,581	Dec. 5	742	159	89	2008
Steam-trap	T. J. Kieley	635,138	Oct. 17	2162	504	89	461
Steam-trap	F. Knackstedt	622,925	Apr. 11	1340	308	87	273
Steam-trap	J. B. Morgan	617,493	Jan. 10	1200	273	86	253
Steam-trap	A. Musnicki	619,207	Feb. 7	777	168 169	86	964
Steam-trap	J. W. Nasmith	630,088	Aug. 1	687	148	88	859
Steam-trap	J. W. Nasmith	630,089	Aug. 1	688	148	88	859
Steam-trap	J. W. Nasmith	630,090	Aug. 1	690	148	88	859
Steam-trap	J. E. L. Ogden	630,399	Aug. 8	1284	281	88	989
Steam-trap	J. J. Royle	632,754	Sept. 12	1036	240	88	1926
Steam-trap	E. F. Seisel	621,159	Mar. 14	1171	254	86	1740
Steam-trap	J. St. Mary	635,703	Oct. 24	3216	741	89	683
Steam-trap	C. H. Whitaker	638,537	Dec. 5	663	139	89	1993
Steam-trap. Automatic	J. H. Blessing	618,263	Jan. 24	2691	596	86	573
Steam-washer	G. W. Hedrick	633,587	Sept. 26	2634	615	88	2264
Steam-washer	J. B. Upham	621,392	Mar. 21	1582	350	86	1834

Alphabetical list of inventions—Continued.

Invention.	Name.	No.	Date.	Monthly volume.		Official Gazette.	
				Spec.	Dr'g.	Vol.	Page.
Steamer and boiler. Combined	R. W. Welty	639,474	Dec. 19	2386	549	89	2369
Steamer and boiler. Culinary	E. E. Ward	639,473	Dec. 19	2382	549	89	2368
Steamer. Culinary	J. G. and M. S. Phenix	637,662	Nov. 21	3118	647	89	1620
Steamer. Fruit-	A. J. Henderson	636,528	Nov. 7	524	115	89	1027
Steamer. Fruit-	K. W. McNaul	620,488	Feb. 28	3053	698	86	1457
Steaming vessel	R. M. Williams	619,455	Feb. 14	1219	277	86	1066
Steel from vessels or furnaces to molds. Means for transferring	A. D. Burt	623,073	Apr. 11	1587	366	87	323
Steel-planing machine. Tool-	A. Masson and E. Fortin	624,061	May 2	202	44	87	742
Steel rails, billets, &c. Apparatus for breaking	T. W. Ward and H. W. Lash	622,174	Mar. 28	3048	690	86	2134
Steering and propelling apparatus. Combined	I. Lehman	635,384	Oct. 24	2617	605	89	565
Steering and warping gear	R. Richardson	639,939	Dec. 26	3229	740	89	2555
Steering apparatus	I. W. Cook	619,867	Feb. 21	1986	451	86	1241
Steering apparatus for vessels. Electric	G. Sautter	622,398	Apr. 4	336	77	87	63
Steering apparatus. Steam	J. P. Manton	627,585	June 27	2560	564	87	2168
Steering apparatus. Vessel	T. W. Moore	619,329	Feb. 14	999	226	86	1025
Steering-gear	L. Brown	626,483	June 6	489	114	87	1708
Steering-gear. Regulating-valve for	J. D. Williamson, Jr	623,454	Apr. 18	2316	530	87	484
Steering machinery	A. B. Brown	622,600	Apr. 4	747	173	87	142
Steering mechanism	C. Carloni	632,099	Aug. 29	4388	986	88	1646
Steering mechanism	R. H. Freeman	626,156	May 30	4108	936	87	1572
Steering mechanism	J. Lyall	619,972	Feb. 21	2160	490	86	1273
Steering mechanism	M. Paldassy	625,352	May 23	2559	582	87	1258
Steering mechanism. Electrical	A. L. Riker	622,977	Apr. 11	1425	329	87	291
Steering mechanism. Power	J. D. Williamson, Jr	626,951	June 13	1381	304	87	1900
Steering-propeller	F. H. Glidden	622,343	Apr. 4	252	58	87	48
Stem-making machine. Combustible-	C. B. Bidwell and C. L. Curtis	634,195	Oct. 3	386	99, 100	89	79
Stencil	A. Haberstroh	631,634	Aug. 22	3540	797	88	1473
Stencil	C. Rost	625,700	May 23	3146	715	87	1374
Stencil-cutting machine	H. A. Buck	630,970	Aug. 15	2326	530	88	1214
Stencils. Apparatus for reproducing by	W. Smith	639,623	Dec. 19	2642	606	89	2421
Stencils. Making	A. Haberstroh	628,315	July 4	702	162	88	135
Stencils. Perforator for producing	E. de Zuccato	625,914	May 30	3578	812	87	1474
Stenciling-machine	S. B. Moore	632,136	Aug. 29	4465	1005	88	1662
Stenciling-machine. Rotary	G. W. Cummings	628,651	July 11	1348	314	88	280
Stenciling or decorative device	A. Haberstroh	624,012	May 2	107	23	87	724
Step-cover fastener	D. Walker	617,207	Jan. 3	659	153	86	129
Stereograph	J. Jacobson	624,043	May 2	166	36	87	734
Stereopticon	S. E. Woody	625,627	May 23	3030	690	87	1351
Stereoscope-hoods. Machine for trimming	H. C. White and C. Leffler	629,836	Aug. 1	149	35	88	750
Stereotype-casting box	B. F. Curtis	620,230	Feb. 28	2625	597	86	1375
Stereotype-plate	W. H. Caps	629,423	July 25	2735	636	88	589
Stereotype-plate trimming and finishing machine	B. F. Curtis	620,890	Mar. 14	657	143, 144	86	1644
Stereotypes. Method of and apparatus for securing engraved plates to	S. H. Horgan	620,133	Feb. 28	2455	557	86	1344
Sterilizer	W. F. Bernstein	635,527	Oct. 24	2906	663, 664	89	622
Sterilizer	O. H. and W. M. Jewell	637,796	Nov. 28	3361	704, 705	89	1689
Sterilizer. Liquid-	E. L. Brewer	633,066	Sept. 12	1591	371	88	2036
Sterilizing and saturating liquids with carbonic acid. Apparatus for	C. Ameye	634,790	Oct. 10	1495	352	89	313
Sterilizing and washing machine. Combined	W. N. Carter	617,279	Jan. 3	797	185	86	157
Sterilizing canned goods. Apparatus for	F. W. Smith	628,554	July 11	1140	266	88	240
Sterilizing, cooling, or heating liquids. Machine for	J. C. Miller	634,950	Oct. 17	1777	422	89	386
Sterilizing, disinfecting, &c. Apparatus for use in	E. Fournier	620,437	Feb. 28	2975	682	86	1442
Sterilizing milk. Method of and apparatus for	N. Bendixen	622,659	Apr. 11	874	200, 201	87	186
Sterilizing or pasteurizing wines, &c. Process of and apparatus for	O. Streubel	627,740	June 27	2848	624	87	2226
Sterilizing-retort	F. W. Smith	624,989	May 16	1905	427	87	1111
Stick-pin retainer	G. J. Capewell, Jr	630,972	Aug. 15	2331	531	88	1215
Still	W. H. Jones	627,120	June 20	1682	368	87	1978
Still and condenser. Water	J. F. Chase	627,904	June 27	3146	688	87	2287
Still. Water-	J. W. Hale	634,556	Oct. 10	1101	261, 262	89	237
Stirrer. Portable pneumatic	W. J. M. Dobson	638,046	Nov. 28	3843	808	89	1785
Stirrup	D. F. Dickerman and M. Moore	627,328	June 20	2057	453	87	2054
Stirrup	C. Knopf	635,556	Oct. 24	2956	676	89	631
Stirrup	E. M. Turner	634,858	Oct. 10	1629	381	89	339
Stirrup instep bearing or guard	C. J. E. Kellner	636,810	Nov. 14	1112	238	89	1173
Stirrup-straps. Holder or buckle for	O. K. Burnham	635,230	Oct. 17	2313	539	89	490
Stitch separating and indenting machine	J. B. Hadaway	635,015	Oct. 17	1895	451	89	410
Stitch separating and pricking-up machine	J. E. Bertrand	620,730	Mar. 7	359	74	86	1571
Stitch-wheeling machine	W. Jackson	625,303	May 16	2460	559	87	1214
Stitching and tying machine. Thread	I. Nasch	634,698	Oct. 10	1338	316, 317	89	284
Stitching-horse	H. H. Brandes	627,973	July 4	26	5	88	8
Stitching machine. Wire-	C. M. Mallory	624,954	May 16	1848	415	87	1099
Stock and die	R. P. and L. B. Curtis	625,089	May 16	2078	468	87	1142
Stock and die	H. O. Nienstaedt	633,473	Sept. 19	2398	564	88	2204
Stock and hay rack. Combined	H. A. Baker	622,320	Apr. 4	216	49	87	41
Stock-fountain. Automatic	D. R. Sheen	625,361	May 23	2572	586	87	1261
Stock or poultry rack. Folding	J. Schichtl	627,535	June 27	2467	543	87	2150
Stock-quotation indicator	R. Einbigler	627,402	June 20	2223	490	87	2085
Stocking	W. D. Huse	626,864	June 13	1219	269	87	1868
Stocking	J. F. Nelson	617,040	Jan. 3	359	87	86	69
Stockings. Gum-elastic top for	R. Gutsche	618,267	Jan. 24	2696	597	86	574
Stogie or cigar rolling machine	J. C. Briggs	627,798	June 27	2954	646	87	2247
Stoker. Automatic	D. Goff	618,862	Feb. 7	79	17	86	820
Stoker for straw-burning furnaces	H. R. Nelson	618,717	Jan. 31	3528	787, 788	86	749
Stoker. Mechanical	J. Proctor	622,634	Apr. 4	803	187	87	152

Alphabetical list of inventions—Continued.

Invention.	Name.	No.	Date.	Monthly volume. Spec.	Monthly volume. Dr'g.	Official Gazette. Vol.	Official Gazette. Page.
Stoker. Mechanical	D. R. Ward	617,302	Jan. 3	835	195	86	164
Stoker's fire-iron	J. Wezel	632,770	Sept. 12	1072	248	88	1934
Stone. Apparatus for applying powder in manufacturing artificial	G. Hattingen	628,317	July 4	704	163	88	135
Stone. Artificial	A. H., H., and G. Van der Vijgh	632,482	Sept. 5	494	------	88	1805
Stone boat or sled	M. S. Rawson	619,992	Feb. 21	2195	499	86	1279
Stone. Compound for making artificial	H. S. Utley	620,383	Feb. 28	2891	------	86	1427
Stone-cutter's maul	J. A. Tulloch	623,192	Apr. 18	1852	424	87	388
Stone-cutting apparatus	F. M. McLarty	633,974	Sept. 26	3302	769	88	2397
Stone-cutting machine	J. McLachlan	619,208	Feb. 7	778	169	86	964
Stone-cutting machine	M. Thonar	621,547	Mar. 21	1877	415	86	1889
Stone divider. Artificial	B. F. Gregory	635,096	Oct. 17	2073	488	89	446
Stone-dressing machine	T. A. Currie	634,938	Oct. 17	1753	416, 417	89	381
Stone, &c., from kieselguhr, &c. Manufacture of	C. Grünzweig	620,446	Feb. 28	2991	------	86	1445
Stone gatherer and roller. Combined	E. A. Nugent	624,852	May 9	1664	376	87	1046
Stone. Making artificial	C. W. Stevens	624,563	May 9	1144	256	87	944
Stone. Manufacturing artificial	T. W. Barber	624,900	May 16	1751	395	87	1081
Stone, ore, &c., crusher	H. Walker and W. Johnson	622,573	Apr. 4	697	162, 163	87	133
Stone-planer for planing curved surfaces	J. N. Durkee	625,968	May 30	3674	834, 835	87	1493
Stone. Process of and composition for cleaning	F. W. Prentice	620,178	Feb. 28	2520	------	86	1357
Stone. Saw for sawing	F. W. Shettleworth	618,524	Jan. 31	3188	704	86	683
Stone-sawing machine	F. W. Shettleworth	632,000	Aug. 29	4200	945, 946	88	1609
Stone-sawing machine	J. S. Young	636,094	Oct. 31	4023	919	89	853
Stone-sawing-machine saw-blade	H. L. Chandler	621,225	Mar. 14	1288	285	86	1764
Stone. Splitting	K. Kreuzer	630,983	Aug. 15	2352	535	88	1219
Stone. Wire cable for cutting	G. L'Hoir and J. B. Deham	626,621	June 6	712	165	87	1753
Stoneware or earthenware jars. Apparatus for making molds for	C. Kettron and F. V. Maxwell	618,276	Jan. 24	2707	601	86	576
Stool. Adjustable	J. F. Mayer	619,596	Feb. 14	1440	332	86	1109
Stool and foot-rest. Store-	J. W. Smith	634,373	Oct. 3	766	182	89	152
Stool. Automatic	C. H. Greb and E. B. Heid	623,008	Apr. 11	1484	343	87	303
Stool. Milking-	A. Dahlstrom	620,424	Feb. 28	2950	677	86	1438
Stool. Music-	J. Brandt	621,746	Mar. 21	2240	505, 506	86	1961
Stool or chair. Automatically-locking	H. Earl, Jr	617,324	Jan. 10	880	206	86	190
Stool. Piano-	S. S. Goshorn	633,833	Sept. 26	3053	710	88	2348
Stool. Piano-	E. A. Losee	621,354	Mar. 21	1524	339	86	1823
Stool-seat	G. H. Chance	635,234	Oct. 17	2319	542	89	491
Stools, chairs, &c. Support for	S. Alsberg	632,304	Sept. 5	183	41	88	1743
Stop for machines. Automatic	F. Zielke	629,883	Aug. 1	246	55	88	768
Stop mechanism	E. G. Hoffmann	624,489	May 9	1001	225, 226	87	916
Stop mechanism	F. T. Leilich	638,182	Nov. 28	4116	869	89	1839
Stop mechanism	D. Mills	635,267	Oct. 17	2368	553, 554	89	500
Stop mechanism	W. Stevens	627,241	June 20	1883	413	87	2018
Stop. Safety-	J. Baggaley	635,222	Oct. 17	2302	537	89	488
Stopper: *See* Basin or bath-tub stopper. Bottle-stopper. Bottle or jar stopper. Flue-stopper. Leak-stopper. Pipe-leak stopper. Water-bag stopper.							
Stopper-extracting device	J. R. Kennedy	635,728	Oct. 24	3274	756	89	692
Stopper-extractor	B. Toulotte	637,048	Nov. 14	1571	339	89	1264
Stopper for ink-wells, &c	L. Stanek	639,913	Dec. 26	3189	733	89	2547
Stopper or closure	H. Deitz	621,296	Mar. 14	1415	313	86	1788
Stoppering device for bottles, &c	A. W. Ellis	621,233	Mar. 14	1300	287, 288	86	1767
Stopple. Vessel-	W. R. Macintosh	617,967	Jan. 17	2107	472, 473	86	451
Storage battery	R. Ashley. (Reissue)	11,713	Jan. 31	3702	829	86	784
Storage battery	W. P. Freeman	627,494	June 27	2385	524	87	2134
Storage battery	W. W. Hanscom and A. Hough	638,390	Dec. 5	391	82	89	1940
Storage battery	A. Heinemann and W. Schäfer	635,774	Oct. 31	3362	777, 778	89	723
Storage battery	C. W. Kennedy	629,371	July 25	2641	613	88	569
Storage battery	C. W. Kennedy	629,372	July 25	2642	613	88	570
Storage battery	C. W. Kennedy	630,714	Aug. 8	1864	421	88	1098
Storage battery	H. H. Knepper	631,796	Aug. 29	3855	850	88	1542
Storage battery	C. and H. Lindenberger and W. B. Teal.	630,720	Aug. 8	1873	423	88	1100
Storage battery	C. and H. Lindenberger and W. B. Teal.	640,006	Dec. 26	3355	768	89	2581
Storage battery	F. W. Schneider	616,978	Jan. 3	208	47, 48	86	41
Storage battery	W. H. Smith	630,753	Aug. 8	1922	434	88	1110
Storage battery and plate therefor. Electrical	R. Kennedy	620,593	Mar. 7	75	15	86	1517
Storage battery and preparing electrodes therefor	L. Paget	627,009	June 13	1489	326	87	1921
Storage bin or bunker	A. S. F. Berquist	625,947	May 30	3628	825	87	1484
Storage or secondary battery	H. Blumenberg, Jr	624,744	May 9	1452	------	87	1006
Store-front and show-case	J. L. Crane	624,460	May 9	941	211	87	905
Store-goods lifter	F. F. Martins and L. B. Haskell	636,541	Nov. 7	548	121	89	1032
Store-service apparatus	J. H. Goodfellow	631,367	Aug. 22	3044	690	88	1373
Store-service apparatus	J. H. Goodfellow	640,127	Dec. 26	3573	822	89	2626
Store-service apparatus	J. H. Goodfellow	640,128	Dec. 26	3575	822, 823	89	2627
Store-service apparatus	G. Staib	627,603	June 27	2608	574	87	2178
Store-service apparatus	H. M. Weaver	626,255	June 6	66	15	87	1627
Stove	J. R. Carter	633,715	Sept. 26	2865	666	88	2309
Stove	H. P. Cope	627,770	June 27	2899	634	87	2237
Stove	C. H. Cosby	620,420	Feb. 28	2946	675, 676	86	1437
Stove	J. Dwyer and J. H. Lane	638,502	Dec. 5	604	125	89	1982

Alphabetical list of inventions—Continued.

Invention.	Name.	No.	Date.	Monthly volume. Spec.	Monthly volume. Dr'g.	Official Gazette. Vol.	Official Gazette. Page.
Stove	E. Fales	617,727	Jan. 17	1647	371	86	360
Stove	R. Galbraitb	633,556	Sept. 19	2539	595, 596	88	2231
Stove	F. D. Gates	639,029	Dec. 12	1552	356	89	2189
Stove	F. Girtanner	628,436	July 4	905	212	88	174
Stove	H. H. Herrendeen	622,951	Apr. 11	1379	317	87	281
Stove	H. Q. Hood	637,991	Nov. 28	3731	784, 785	89	1764
Stove	E. H. Huenefeld	634,668	Oct. 10	1286	303	89	274
Stove	E. H. Huenefeld	638,844	Dec. 12	1223	275, 276	89	2124
Stove	A. A. Low	626,838	June 13	1158	257	87	1856
Stove	J. P. Lynott	628,272	July 4	598	141, 142	88	116
Stove	J. Mealey	628,342	July 4	747	172	88	143
Stove	A. Obnemus	638,134	Nov. 28	4026	848	89	1820
Stove	C. Olsted	627,136	June 20	1704	374	87	1982
Stove	V. Spindler	639,624	Dec. 19	2643	607	89	2421
Stove. Air-tigbt heating-	W. M. Milburn	635,566	Oct. 24	2979	683	89	635
Stove and heater. Combined cooking-	H. W. Conner	630,595	Aug. 8	1667	374	88	1061
Stove and ventilator. Gas-	H. M. Williams	630,017	Aug. 1	545	121	88	831
Stove attacbment	A. A. Brower	631,274	Aug. 22	2880	651	88	1341
Stove attachment	D. Y. Bruneau	626,485	June 6	493	114	87	1709
Stove attachment	F. W. Winner and T. F. Martin	619,919	Feb. 21	2071	469	86	1256
Stove attacbment. Cooking-	H. J. Halm	638,924	Dec. 12	1366	311, 312	89	2152
Stove. Automatic oil-	W. H. Silver	624,880	May 9	1711	387, 388	87	1056
Stove. Boiling, cooking, and heating	T. Pfister	619,609	Feb. 14	1471	337	86	1115
Stove burner. Gas-	A. L. Pitney	631,436	Aug. 22	3173	720	88	1399
Stove burner. Gas or oil	E. Burden	637,230	Nov. 21	1954	417	89	1351
Stove burner. Heating-	G. Kelly	636,433	Nov. 7	346	78	89	991
Stove burner. Petroleum-	C. G. Holmqvist	618,984	Feb. 7	373	78	86	882
Stove. Camp-	C. V. Kuder	637,965	Nov. 28	3683	773	89	1754
Stove. Combined air-tight wood and coal	F. M. Cadman	629,544	July 25	2969	692	88	634
Stove. Combined gas and fuel	C. D. Shepard	617,362	Jan. 10	960	220	86	206
Stove. Cook-	M. Kennedy	635,552	Oct. 24	2952	675	89	630
Stove. Cooking-	V. W. Blanchard	636,711	Nov. 7	880	195	89	1102
Stove. Cooking-	C. Olsted	630,921	Aug. 15	2227	507, 508	88	1194
Stove. Cooking or heating	J. H. Goodfellow	621,812	Mar. 28	2369	530	86	2001
Stove-cover and gas-burner. Combined	A. Griffith	622,894	Apr. 11	1288	297	87	262
Stove-door and jig for finisbing same	S. Boal	621,022	Mar. 14	919	200	86	1691
Stove feeding attachment. Oil-	C. H. Boeck	617,697	Jan. 10	1588	359	86	328
Stove-fire-pot mold	H. V. Moore	639,753	Dec. 26	2898	668	89	2490
Stove. Folding	J. Morawetz	620,345	Feb. 28	2828	644, 645	86	1415
Stove. Folding	W. G. Rogers	618,014	Jan. 17	2188	489	86	465
Stove. Folding camp-	W. S. Ray	617,122	Jan. 3	505	121	86	99
Stove for lignite cakes, peat, &c	E. Demmer	621,800	Mar. 28	2350	526	86	1997
Stove-frame and jig for finishing same	S. Boal	621,021	Mar. 14	917	199	86	1691
Stove. Gas-	V. W. Blancbard	636,710	Nov. 7	877	195	89	1101
Stove. Gas-	F. Busch	629,150	July 18	2249	521	88	475
Stove. Gas-	E. J. Dascbbach	632,340	Sept. 5	238	56	88	1754
Stove. Gas-	L. H. Stoddard	630,999	Aug. 15	2372	540	88	1223
Stove. Gas cooking-	W. J. Scbmitz	627,710	June 27	2797	612	87	2215
Stove. Gas beating-	C. H. Hoffstetter	634,498	Oct. 10	988	236	89	215
Stove. Gas beating-	B. Stecher	622,558	Apr. 4	676	157	87	129
Stove. Gas or oil	E. Burden	631,695	Aug. 22	3637	820	88	1492
Stove. Gas or oil	E. Burden	635,841	Oct. 31	3502	805	89	751
Stove. Gas or oil	E. Burden	637,231	Nov. 21	1955	417	89	1351
Stove-grate. Adjustable	O. Ostad and M. H. Welta	624,673	May 9	1324	295	87	979
Stove. Heating-	H. C. Baker	623,115	Apr. 11	1699	392	87	343
Stove. Heating-	V. W. Blanchard	636,712	Nov. 7	883	196	89	1103
Stove. Heating-	J. B. Howard	626,997	June 13	1473	322, 323	87	1918
Stove. Heating-	E. H. Huenefeld	639,898	Dec. 26	3156	726	89	2539
Stove. Hot-blast	J. Kennedy	617,930	Jan. 17	2051	459	86	440
Stove. Hot-blast	C. T. McCarroll	631,049	Aug. 15	2472	560	88	1243
Stove. Hydrocarbon cook-	D. W. Cole	621,959	Mar. 28	2652	597	86	2054
Stove. Hydrocarbon-vapor	E. G. Mummery	623,729	Apr. 25	2794	639	87	592
Stove. Lamp-	T. Pfister	619,500	Feb. 14	1295	297	86	1083
Stove-lid lifter	H. Bitner	332,213	Aug. 29	4608	1038	88	1689
Stove magazine attachment	B. F. Smitb	638,289	Dec. 5	197	41	89	1904
Stove. Magazine heating-	L. Mitiska	625,186	May 16	2244	510, 511	87	1173
Stove. Oil-	C. H. Boeck	617,695	Jan. 10	1584	358	86	328
Stove. Oil-	D. Coradino	630,328	Aug. 8	1122	245, 246	88	959
Stove. Oil-	F. P. Glazier	620,910	Mar. 14	695	153	86	1650
Stove. Oil-	W. H. Wilder	617,977	Jan. 17	2123	476	86	454
Stove. Oil-	W. H. Wilder	618,020	Jan. 17	2202	492	86	468
Stove. Oil-	W. H. Wilder and C. K. Stinson	617,976	Jan. 17	2122	476	86	453
Stove or furnace	A. M. Blakesley	622,752	Apr. 11	1023	238	87	214
Stove or furnace	T. H. Eulass	618,338	Jan. 24	2817	625	86	597
Stove or furnace	G. A. McKenzie and C. W. Hougb	638,934	Dec. 12	1385	316	89	2157
Stove or furnace	F. Robinson	617,657	Jan. 10	1510	343	86	314
Stove or furnace for washboilers	W. N. Golden	637,107	Nov. 14	1676	364	89	1283
Stove or furnace grate	J. H. Goodfellow	629,719	July 25	3282	765	88	693
Stove or furnace magazine attacbment	E. W. Rider	625,417	May 23	2669	608	87	1279
Stove or furnace magazine or retort	A. Bair	619,709	Feb. 21	1680	385	86	1181
Stove or heater. Gas	S. N., M. A., and G. E. Mentel	629,454	July 25	2791	649	88	600
Stove or heating apparatus, &c	J. A. Jensen	627,643	June 27	2683	588	87	2193
Stove or oven door lifter	M. Weixler	639,118	Dec. 12	1706	393	89	2219
Stove or oven. Oil cooking-	T. Pfister	619,610	Feb. 14	1473	337	86	1116
Stove or range	R. S. Stephenson	625,710	May 23	3169	719	87	1379

Alphabetical list of inventions—Continued.

Invention.	Name.	No.	Date.	Monthly volume. Spec.	Monthly volume. Dr'g.	Official Gazette. Vol.	Official Gazette. Page.
Stove or range	R. S. Stephenson	630,126	Aug. 1	747	161	88	871
Stove or range. Cooking	J. H. Spohn	618,914	Feb. 7	164	35	86	837
Stove or range gas attachment	C. V. Roberts	622,540	Apr. 4	644	151, 152	87	122
Stove or range lid	W. Enatzky	638,104	Nov. 28	3968	834	89	1808
Stove or range safety attachment. Gas	W. De Freitas	638,501	Dec. 5	603	124	89	1981
Stovepipe	L. W. Hemp	620,452	Feb. 28	2999	686	86	1447
Stovepipe	H. W. Smith	632,852	Sept. 12	1222	280	88	1965
Stovepipe and collar holder	C. J. Salter	632,790	Sept. 12	1112	257	88	1943
Stovepipe attachment and water-heater	T. Weinhart	625,911	May 30	3573	811	87	1473
Stovepipe-cleaner	E. H. Kingsbury	628,474	July 11	983	227	88	210
Stovepipe-collar	I. W. Stiles	627,280	June 20	1956	430	87	2033
Stovepipe-collar	H. E. White	638,947	Dec. 12	1406	321	89	2161
Stovepipe-coupling	J. Dick	627,987	July 4	54	10	88	12
Stovepipe-coupling	J. J. Werner	628,882	July 11	1749	408	88	360
Stovepipe-coupling	G. W. Woodvine	622,313	Apr. 4	204	46	87	39
Stovepipe-elbow	U. D. Alexander	627,633	June 27	2666	585	87	2191
Stovepipe-fastener	E. D. Barling	626,663	June 13	805	184	87	1789
Stovepipe-holder	A. A. Coon	622,121	Mar. 28	2938	666	86	2111
Stovepipe-joint lock	B. F. Wood, Jr	635,707	Oct. 24	3222	742	89	684
Stovepipe-thimble	F. S. Linch	632,818	Sept. 12	1169	268	88	1954
Stove-polish	W. Ayling	620,405	Feb. 28	2924	------	86	1433
Stove. Prospector's knockdown camp-	F. Stapp	620,258	Feb. 28	2674	613	86	1385
Stove-rack	E. Bennett	639,702	Dec. 26	2803	646	89	2470
Stove-rings. Manufacturing	A. K. Beckwith	633,780	Sept. 26	2973	690	88	2331
Stove utensil. Kitchen-	M. Rietzke	640,030	Dec. 26	3398	778	89	2590
Stove. Vapor-	C. H. Boeck	617,694	Jan. 10	1583	357, 358	86	327
Stove. Vapor-	C. Hoppe	631,792	Aug. 29	3849	857	88	1540
Stove. Vapor-	W. H. Thayer	625,214	May 16	2288	521	87	1181
Stove. Wood-burning	E. H. Huenefeld	633,720	Sept. 26	2874	667, 668	88	2311
Stove. Wood-burning	W. H. James	629,191	July 18	2312	537	88	487
Stoves. Ash-pan for hot-blast	C. A. Polley	631,812	Aug. 29	3876	864	88	1546
Stoves. Automatic cut-off attachment for gas-	C. Bargamin	636,102	Oct. 31	4034	923	89	855
Stoves. Composition of matter for blacking and polishing	W. Q. Adams	619,923	Feb. 21	2077	------	86	1258
Stoves. Folding plate for gas-	R. H. Horne	624,214	May 2	491	105	87	793
Stoves, furnaces, &c. Grate for	A. W. Walker	619,104	Feb. 7	577	124	86	924
Stoves, &c. Grate for cooking-	J. E. Keyt	634,414	Oct. 3	836	201	89	167
Stoves or ranges. Adjustable water-tank for	L. L. Culver	640,106	Dec. 26	3540	813, 814	89	2619
Stoves, &c. Removable grate for cooking-	A. K. Beckwith	634,867	Oct. 17	1647	387	89	360
Straightening-machine	L. W. Jernberg	637,466	Nov. 21	2392	517, 518	89	1439
Strainer	L. T. Fuller and J. G. Volle	622,217	Apr. 4	37	9	87	10
Strainer	W. Hayes	634,455	Oct. 10	918	219	89	201
Strainer	J. J. Murphy	636,054	Oct. 31	3910	898	89	831
Strainer and filter	J. W. Hyatt	617,162	Jan. 3	585	137, 138	86	115
Strainer attachment for kettles, &c	P. C. Totman	625,523	May 23	2847	649	87	1315
Strainer attachment for tea or coffee trays	J. W. Carter	631,696	Aug. 22	3638	820	88	1492
Strainer. Bucket-	A. Wolf	638,787	Dec. 12	1129	251	89	2106
Strainer for liquor-barrel faucets	E. L. Hoppe	628,805	July 11	1622	374	88	338
Strainer. Milk-	H. Fitchie	622,919	Apr. 11	1329	306	87	271
Strainer. Milk-	E. S. Lagerquist	626,170	May 30	4137	942	87	1578
Strainer. Vessel-	J. Buckley	639,208	Dec. 19	1876	433	89	2265
Strainer. Waste-pipe	J. C. Hungerbuehler	628,146	July 4	353	84	88	72
Strap: *See* Hame-strap. Trunk-strap. Shawl-strap.							
Strap-cutting machine	C. W. Newton	639,272	Dec. 19	1988	458	89	2289
Strap-fastening	P. Tempest	628,370	July 4	788	183	88	151
Strap-fastening device	A. J. Spaulding	624,559	May 9	1137	255	87	943
Strap loop or keeper	A. Burson	619,540	Feb. 14	1356	312	86	1095
Strap-protector	E. G. Awcock	632,086	Aug. 29	4363	981	88	1641
Straps, &c. Fastener for	T. S. Grace	626,689	June 13	867	196	87	1802
Straw-burning furnace	H. C. Clay	626,669	June 13	814	186	87	1791
Straw carrier and stacker	G. D. Lamm	633,202	Sept. 19	1881	443	88	2104
Straw-elevator	Z. McGonegal	619,983	Feb. 21	2178	496	86	1277
Straw or feed cutter	C. C. Smalley	628,287	July 4	627	148	88	121
Straw self-feeder and band-cutter	E. Huber and J. W. Miller	635,099	Oct. 17	2077	488, 489	89	446
Street and station indicator for cars, &c	C. H. Buchwalter	625,538	May 23	2870	653	87	1320
Street-cleaner	G. M. Ward	623,496	Apr. 18	2384	548	87	497
Street-cleaning device	J. G. Smith	631,096	Aug. 15	2563	579	88	1260
Street-indicating device	F. C. Rothballer	627,941	June 27	3211	703	87	2301
Street-sprinkler	A. Bastam	630,766	Aug. 8	1945	438	88	1114
Street-sprinkler	C. Haeske	623,600	Apr. 25	2589	592	87	554
Street-sprinkler	J. B. Rhodes	636,846	Nov. 14	1168	353	89	1185
Street-sprinkler	J. L. Stiebel	639,788	Dec. 26	2968	683	89	2504
Street-sprinkler	W. S. Twining. (Reissue)	11,736	Apr. 25	3261	751	87	682
Street-sweeper	G. W. Brady	634,283	Oct. 3	586	145, 146	89	117
Street-sweeper	A. Brown	637,704	Nov. 21	3201	665	89	1637
Street-sweeper	O. P. Cadmus	639,020	Dec. 12	1540	353, 354	89	2186
Street-sweeper	P. Haerst	625,163	May 16	2205	500, 501	87	1165
Street-sweeper	T. R. Jones	622,487	Apr. 4	541	127	87	102
Street-sweeper	D. I. Langworthy	622,372	Apr. 4	299	69, 70	87	57
Street-sweeper	G. E. Schnepper	617,055	Jan. 3	383	94	86	74
Street-sweeper	A. H. Smith	633,296	Sept. 19	2069	485	88	2141
Street-sweeper	E. J. Smith	634,963	Oct. 17	1807	428	89	392
Street-sweeper	S. Stephens	628,616	July 11	1238	289	88	259
Street washer and hydrant	L. I. Ward and E. B. Nelson	618,753	Jan. 31	3590	801	86	762

Alphabetical list of inventions—Continued.

Invention.	Name.	No.	Date.	Monthly volume. Spec.	Monthly volume. Drg.	Official Gazette. Vol.	Official Gazette. Page.
Strength of the human body. Mechanism for applying	D. A. Sargent	631,531	Aug. 22	3346	761, 762	88	1434
Stringed instrument	J. Brandt	634,103	Oct. 3	224	56	89	48
Stringed-instrument attachment	F. Graus	627,410	June 20	2240	494	87	2089
Stringed instruments. Automatic fingering device for	J. H. Scott and S. H. Brown	634,124	Oct. 3	264	65, 66	89	55
Stringed instruments. String-protector and finger-board cover for	C. F. Albert	633,776	Sept. 26	2966	688	88	2330
Strip-cutting machine	G. A. Ensign	635,241	Oct. 17	2328	544	89	493
Strip holding and exhibiting box	O. L. Miles	633,604	Sept. 26	2666	622	88	2269
Stropping-machine	A. W. Scheuber	627,014	June 13	1498	327	87	1923
Stubble-shaver and plant-cane scraper. Combined	A. M. Bernard, H. F. Reynaud, and W. J. Bernard.	622,105	Mar. 28	2907	658	86	2106
Stud-forming machine	A. I. Jacobs	621,418	Mar. 21	1618	359, 360	86	1840
Stud lock. Shirt-	J. W. Plant	624,679	May 9	1335	297	87	982
Stud or hook. Lacing	A. S. Neumark	629,724	July 25	3290	767	88	695
Stud-setting machine	F. A. Errington	632,811	Sept. 12	1149	264	88	1950
Stud-setting machine	F. A. Errington	632,812	Sept. 12	1154	265	88	1951
Stud-spirals. Hand-tool for forming	S. H. Hart	620,449	Feb. 28	2995	685	86	1446
Studs. Connected	B. Norman	635,971	Oct. 31	3748	865	89	797
Studding or support for partition-walls	T. Curran	623,354	Apr. 18	2146	493	87	447
Stuffing-box. Water-gage	J. R. Crabill	624,305	May 2	668	146	87	828
Stump-burner	J. A. O. Bredemeyer	634,609	Oct. 10	1186	281	89	253
Stump-extracting device	J. C. Sharp	619,511	Feb. 14	1313	301	86	1087
Stump-extractor	S. Hiller	622,147	Mar. 28	2993	676, 677	86	2124
Stump extractor and conveyer	N. Champagne	629,659	July 25	3169	739	88	672
Stump-pulling machine	E. M. Bliss	623,068	Apr. 11	1579	364	87	322
Stylus for producing illuminated sentences	J. Scott	635,814	Oct. 31	3439	793	89	739
Subirrigation. System of automatic	A. and D. P. Fyfe	633,378	Sept. 19	2239	527	88	2173
Subirrigation system and valve	B. O. Clark	638,321	Dec. 5	252	53	89	1914
Submarine miniug and ore-separating apparatus	E. C. Nichols	629,910	Aug. 1	305	68, 69, 70	88	779
Submerged heater	E. J. Byrne	638,195	Nov. 28	4137	874	89	1843
Subsoiler	F. Schell	620,975	Mar. 14	828	182	86	1675
Sugar-boiling	J. Grossé	631,072	Aug. 15	2518	570	88	1252
Sugar-cane. Press for extracting juice from	J. W. Hyatt	634,461	Oct. 10	925	221, 222	89	202
Sugar-cutting machine	F. Simonet	633,914	Sept. 26	3194	744	88	2376
Sugar-cutting machine	G. Stoff	625,211	May 16	2283	519, 520	87	1181
Sugar from beets. Manufacturing granulated	J. G. Oxnard and W. Baur	626,292	June 6	131	33	87	1639
Sugar in motion. Apparatus for crystallizing	E. P. Eastwick, Jr	638,568	Dec. 5	712	151, 152	89	2002
Sugar-juice. Bleaching	I. Kitsee	637,004	Nov. 14	1499	------	89	1250
Sugar juice or syrup. Decolorizing and purifying	C. Ranson	623,105	Apr. 11	1676	------	87	340
Sugar juice or syrup. Decolorizing and purifying	G. Ranson	623,106	Apr. 11	1677	388	87	340
Sugar-juices. Apparatus for treating	J. E. Kohn	626,760	June 13	987	223	87	1824
Sugar-juices. Defecating	A. Verley	637,363	Nov. 21	2211	------	89	1403
Sugar. Molding	J. Putzeys	626,036	May 30	3859	------	87	1526
Sugar or salt shaker	C. Lawton	617,489	Jan. 10	1196	272	86	252
Sugar. Refining	M. Zahn	631,603	Aug. 22	3492	789	88	1464
Suit-hanger	W. N. Moore	627,867	June 27	3072	672	87	2270
Suit. Storm-	P. Kaufman	623,086	Apr. 11	1617	372	87	330
Sulfid ores. Treating flue-dust and fume obtained from	R. Threlfall	627,024	June 13	1508	------	87	1925
Sulfid ores. Treating refractory	F. Ellershausen	635,093	Oct. 17	2067	------	89	445
Sulfite liquors. Apparatus for recovering chemicals from	L. J. Dorenfeldt	620,752	Mar. 7	409	84	86	1581
Sulfite lyes. Utilizing	L. J. Dorenfeldt	620,751	Mar. 7	408	------	86	1581
Sulfite lyes. Utilizing	V. Drewsen and L. J. Dorenfeldt	620,755	Mar. 7	413	------	86	1582
Sulfo compound and making same. Fatty aromatic	E. Twitchell	628,503	July 11	1027	------	88	218
Sulfur from ores. Apparatus for separating	J. B. McCabe	635,574	Oct. 24	2990	686	89	637
Sulfureted hydrocarbons and making same. Tasteless compound from	L. O. Helmers	624,027	May 2	139	------	87	730
Sulfureted hydrocarbons and making same. Tasteless compound from	L. O. Helmers	624,028	May 2	141	------	87	730
Sulfureted ores. Treating	M. Body	625,433	May 23	2697	------	87	1285
Sulky	F. P. Cheney	629,237	July 18	2383	553	88	499
Summation-meter	E. Thomson	635,880	Oct. 31	3573	822	89	764
Sunken articles. Device for locating	T. J. Moriarty	637,147	Nov. 14	1781	382	89	1303
Sunshade. Bicycle-	E. F. Mellon	620,342	Feb. 28	2823	644	86	1414
Superheater	F. Dürr	640,115	Dec. 26	3555	817	89	2623
Superheater	G. Henkel	635,481	Oct. 24	2830	646	89	607
Superheater	R. Hildebrand	639,981	Dec. 26	3321	761	89	2574
Superheating apparatus	P. F. Dundon	620,290	Feb. 28	2730	626	86	1396
Superphosphates. Making	G. Schüler	631,181	Aug. 15	2700	------	88	1287
Support. Adjustable	J. Henneman	618,603	Jan. 31	3321	739	86	709
Support. Adjustable	F. L. Morgan	627,517	June 27	2430	534	87	2143
Support for temporary centerings. Adjustable	M. Perret	634,671	Oct. 10	1291	304	89	275
Support or bracket. Flexible	W. S. Arnold	625,917	May 30	3583	813	87	1475
Suppository	D. H. Murphy	638,258	Dec. 5	105	24	89	1886
Surface-gage	B. E. Sawyer	624,876	May 9	1704	386	87	1054
Surfacing bodies	H. Rosenberg	639,867	Dec. 26	3101	------	89	2529
Surfacing-wheel. Wet-working	C. G. Warner	639,955	Dec. 26	3269	748	89	2563
Surgical appliance	G. E. Dudley	622,333	Apr. 4	236	53	87	45
Surgical bandage	J. Kuyath	632,727	Sept. 12	996	231	88	1918
Surgical bandages. Machine for making and winding	P. C. West	635,160	Oct. 17	2196	512, 513	89	468
Surgical dressing. Sterilized	D. Smith	617,474	Jan. 10	1175	------	86	248
Surgical heating apparatus	E. Willbrandt	636,307	Nov. 7	138	30	89	949
Surgical instrument	G. F. Richter	620,853	Mar. 7	590	128	86	1618
Surgical splint	R. W. Barton	620,556	Feb. 28	3200	733	86	1486

Alphabetical list of inventions—Continued.

Invention.	Name.	No.	Date.	Monthly volume. Spec.	Monthly volume. Dr'g.	Official Gazette. Vol.	Official Gazette. Page.
Surgical table	S. Havnar	620,318	Feb. 28	2783	636	86	1406
Surveying or astronomical instrument	A. Hein	622,045	Mar. 28	2805	633	86	2085
Surveyor's instrument	D. Grant	633,263	Sept. 19	2013	472	88	2130
Suspender attachment	G. H. Tuthill	624,407	May 2	843	190	87	862
Suspender-buckle loop	H. Weiss	627,370	June 20	2152	474	87	2073
Suspender cast-off	L. Neuberger and E. Cleary	630,729	Aug. 8	1887	426	88	1103
Suspender cast-off	C. T. Shafer	619,001	Feb. 7	399	83	86	887
Suspender-end	W. Bloomberg	622,594	Apr. 4	740	171	87	141
Suspender-end	C. F. Edgarton	617,085	Jan. 3	429	104	86	83
Suspender-end	W. H. Johnson	623,721	Apr. 25	2786	637	87	590
Suspender-end	J. W. Smith	624,557	May 9	1132	254	87	942
Suspender-mounting	A. M. Ziegler	620,399	Feb. 28	2916	668	86	1431
Suspenders	J. Bäck	632,689	Sept. 12	921	215	88	1903
Suspenders	B. J. Balliett	625,997	May 30	3732	846	87	1504
Suspenders	A. Coleman	637,924	Nov. 28	3609	756	89	1740
Suspenders	E. Denis	617,926	Jan. 17	2046	458	86	439
Suspenders	C. H. Doughty	633,434	Sept. 19	2338	552	88	2193
Suspenders	J. N. Faust and W. N. Eichberg	624,476	May 9	966	214	87	909
Suspenders	W. C. Fisher	633,973	Sept. 26	3301	769	88	2397
Suspenders	W. Freeman	635,959	Oct. 31	3723	861	89	792
Suspenders	A. F. German	635,314	Oct. 24	2465	573	89	535
Suspenders	A. J. Jackson	620,140	Feb. 28	2472	561	86	1347
Suspenders	C. Janton	629,507	July 25	2914	678	88	623
Suspenders	A. Silberman	632,972	Sept. 12	1438	332	88	2005
Suspenders	E. T. Specht	638,428	Dec. 5	464	95	89	1955
Suspenders	F. B. Sweet	638,999	Dec. 12	1513	347	89	2181
Suspenders	B. D. Wurgler	619,006	Feb. 7	405	85	86	889
Suspenders and waist-holder	M. Jansen	631,641	Aug. 22	3551	800	88	1474
Suspending device	J. R. Farmer	632,558	Sept. 5	649	151	88	1835
Suspension apparatus	A. Kitson	632,500	Sept. 5	526	121	88	1811
Suspensory	P. M. Kennedy	623,315	Apr. 18	2070	475	87	433
Swaging-machine	W. H. Dayton	637,449	Nov. 21	2358	509	89	1432
Swaging-machine	F. V. Whyland	629,838	Aug. 1	154	36,37	88	751
Swaging-tool	I. W. Price	634,909	Oct. 17	1709	404	89	373
Sward from sidewalks. Device for cutting away	P. Huddle	625,977	May 30	3696	840	87	1498
Sweater and hood. Combined	S. Fain	621,050	Mar. 14	980	213	86	1703
Swift or reel	E. Atwood	621,736	Mar. 21	2220	500	86	1958
Swifts. Attachment for	R. Mauchline	631,086	Aug. 15	2547	577	88	1257
Swimming apparatus	F. H. B. Babbe	634,128	Oct. 3	278	68	89	58
Swimming apparatus	G. Zacker	623,060	Apr. 11	1567	362	87	319
Swimming appliance	J. Staub	636,364	Nov. 7	234	51	89	968
Swine-trough	F. L. Stewart	638,675	Dec. 5	930	207	89	2049
Swing	D. F. Graham	624,784	May 9	1520	346, 347	87	1019
Swing	F. L. Harris	639,563	Dec. 19	2544	584	89	2401
Swing	E. D. McGlamery	623,254	Apr. 18	1959	447, 448	87	411
Swing	W. S. Young	634,934	Oct. 17	1748	415	89	380
Swing and cradle. Combination	C. Brass	630,851	Aug. 15	2102	476	88	1170
Swing and expansion joint	M. Wilkes	637,541	Nov. 21	2531	548	89	1465
Swing-gate	J. H. Hannay	634,338	Oct. 3	712	169	89	143
Swinging bracket	T. Smith	619,445	Feb. 14	1208	273	86	1063
Swinging chair	H. J. Ritter	634,030	Oct. 3	84	22,23	89	21
Swinging chair and hammock	E. B. Weston	639,877	Dec. 26	3115	716	89	2531
Swinging gate	J. A. Hamelback	638,115	Nov. 28	3983	838	89	1811
Switch: *See* Abattoir track-switch. Battery-switch. Car-switch. Derailing-switch. Electric-circuit switch. Electric-motor controlling-switch. Electric time-switch. Electrical switch. Electrical snap-switch. Elevator-switch. Flush switch. Frogless switch. Looping-in switch. Railway-switch. Snap-switch. Starting-switch. Telephone-switch. Telephone duplex switch. Telephone-exchange switch. Time-switch. Trolley-wire switch.							
Switch	T. Braley and D. W. Custer	634,437	Oct. 3	880	212	89	177
Switch	A. Kunz	623,320	Apr. 18	2081	477	87	435
Switch and means for operating same	T. A. Smith	627,883	June 27	3105	680	87	2275
Switch and signal lock	F. C. Doran	638,915	Dec. 12	1351	309	89	2150
Switch and signal mechanism	V. K. Spicer	628,636	July 11	1320	307, 308	88	275
Switch and signal mechanism	V. K. Spicer	628,637	July 11	1323	308	88	275
Switch and signal mechanism	V. K. Spicer	628,638	July 11	1324	308	88	275
Switch and signal mechanism. Locking mechanism for	H. B. Potter	638,756	Dec. 12	1079	241	89	2097
Switchboard-connecting cord-circuit	G. K. Thompson	620,002	Feb. 21	2208	503	86	1282
Switchboard. Electrical	C. H. Cox	637,323	Nov. 21	2127	458, 459	89	1386
Switchboard system. Multiple	C. E. Scribner	632,067	Aug. 29	4333	974	88	1635
Switch-card receiver	L. G. Given	626,534	June 6	578	134	87	1726
Switch device for feed-tables	F. I. Freeman	618,858	Feb. 7	72	15	86	818
Switch for electric traction systems	O. Joedicke	639,127	Dec. 12	1720	396	89	2221
Switch-lock. Automatic	M. Shroyer	636,294	Nov. 7	121	26	89	946
Switch mechanism	J. P. Coleman	629,953	Aug. 1	422	91	88	805
Switch mechanism	J. G. Schreuder	635,355	Oct. 24	2533	589	89	549
Switch mechanism. Electrically-operated	S. L. Foster	637,960	Nov. 28	3675	772	89	1752
Switch-operating device	J. E. Barnhart and E. D. Middleton	635,460	Oct. 24	2792	638	89	600
Switch-operating device	W. M. Goodell	636,132	Oct. 31	4091	936	89	867
Switch-operating mechanism	F. C. Anderson	634,935	Oct. 17	1750	416	89	380
Switch-operating mechanism	E. Behney	619,124	Feb. 7	621	133	86	932
Switch-operating mechanism	W. Haney	637,112	Nov. 14	1703	367	89	1288

Alphabetical list of inventions—Continued.

Invention.	Name.	No.	Date.	Monthly volume. Spec.	Monthly volume. Drg.	Official Gazette. Vol.	Official Gazette. Page.
Switch-operating mechanism	W. J. Harris	619,172	Feb. 7	717	154	86	951
Switch-operating mechanism	C. S. Scott	618,621	Jan. 31	3351	745	86	714
Switch-operating mechanism. Magnetic	T. F. Green	638,631	Dec. 5	837	182	89	2026
Switch-signaling device	C. Fearon and W. E. Bradley	635,130	Oct. 17	2142	501	89	458
Switch-stand	C. E. Cain	623,516	Apr. 25	2429	557	87	525
Switch-stand	W. E. Miller	619,428	Feb. 14	1179	266	86	1058
Switch stick or bar	F. M. Howe	636,406	Nov. 7	300	68	89	981
Switch-thrower	O. Ward, Jr	620,813	Mar. 7	513	109	86	1602
Switches. Automatic gravity-lock for	J. G. Sorenson	626,573	June 6	641	148	87	1739
Switches. Blocking device for split	W. N. Carroll	618,536	Jan. 31	3206	709	86	686
Switching apparatus	A. T. Brown	634,871	Oct. 17	1653	388 389	89	361
Switching apparatus	J. Cloos	623,118	Apr. 11	1706	394	87	345
Switching apparatus	J. Cloos	623,119	Apr. 11	1707	394	87	345
Switching apparatus and method of counteracting arcs.	J. Cloos	623,120	Apr. 11	1709	394 395	87	346
Swivel connection	N. Isachson	637,122	Nov. 14	1739	373	89	1294
Syringe	J. G. Chandler	633,805	Sept. 26	3003	698	88	2337
Syringe	L. M. Geer	622,848	Apr. 11	1203	280	87	248
Syringe	A. L. Henry	634,108	Oct. 3	233	59	89	50
Syringe	F. J. Lander	632,728	Sept. 12	997	232	88	1918
Syringe	T. F. Moss	619,981	Feb. 21	2176	495	86	1276
Syringe	C. Savino	617,127	Jan. 3	514	123	86	101
Syringe	W. P. Shattuck	619,845	Feb. 21	1944	442	86	1233
Syringe	C. Sullivan	631,971	Aug. 29	4143	932	88	1599
Syringe and atomizer	E. A. Franklin	617,245	Jan. 3	724	168	86	142
Syringe attachment	G. H. Tuttle	638,367	Dec. 5	353	74	89	1933
Syringe-case	A. H. Tatum	630,638	Aug. 8	1747	392	88	1076
Syringe case. Hypodermic-	G. Ermold	620,434	Feb. 28	2971	680	86	1441
Syringe for spraying plants, &c	H. B. Elliott and F. Alberts	631,704	Aug. 22	3656	824	88	1496
Syringe. Hypodermic	R. Papendell	637,405	Nov. 21	2291	493	89	1419
Syringe-nozzle	C. L. Akers	633,557	Sept. 26	2547	398	88	2247
Syringe-nozzle	A. W. Browne	625,434	May 23	2699	615	87	1285
Syringe-nozzle	F. Hurlbut	639,576	Dec. 19	2561	588	89	2404
Syringe-nozzle	E. F. Mellon	631,899	Aug. 29	4015	899	88	1574
Syringe-nozzle	E. T. Pearl	616,963	Jan. 3	184	42	86	37
Syrup-jar	J. Ormerod	626,085	May 30	3943	896	87	1543
Table: *See* Adjustable table. Billiard and dining table. Concentrating-table. Extension-table. Folding table. Game-table. Ironing-table. Laundry and kitchen table. Ore-concentrating table. Pool-table. Roll and transfer table. Self-waiting table. Surgical table. Wall-table. Washing and canning table.							
Table	J. E. Long	636,268	Nov. 7	74	18	89	937
Table	W. H. McHugh	638,060	Nov. 28	3862	812	89	1789
Table	J. P. Reichert	624,683	May 9	1341	299 300	87	983
Table and closet. Combined	T. E. Wilson	625,077	May 16	2052	461	87	1137
Table chair attachment	J. B. Rudy and J. H. Mulcahy	624,869	May 9	1695	384	87	1052
Table-cloths, &c. Device for stretching	E. M. Steward	632,159	Aug. 29	4504	1014	88	1671
Table-cover frame. Dining-	A. L. Buzzard	618,221	Jan. 24	2610	577	86	558
Table-leg-clamping device	W. B. McLean	626,554	June 6	608	140	87	1732
Table-leg fastening	W. H. Merritt	634,989	Oct. 17	1858	441	89	402
Table or desk attachment for chairs or seats	W. K. Loughborough	633,323	Sept. 19	2139	501	88	2155
Table or other tops. Fastening for	J. Pleukharp	631,750	Aug. 22	3754	842	88	1512
Table slide. Extension-	A. P. Boardman	626,747	June 13	965	219	87	1819
Table slide. Extension-	H. J. Durgin. (Reissue)	11,781	Oct. 31	4283	983	89	905
Table-screen and fly-fan	J. H. Bedingfield	618,980	Feb. 7	365	75	86	880
Tablet	M. T. Sharp	635,515	Oct. 24	2886	659	89	617
Tablet and index	J. G. Nolen	633,147	Sept. 19	1789	421	88	2085
Tablet-forming machine	A. R. Morris	625,347	May 23	2548	579	87	1256
Tablet-forming machine	A. R. Morris	625,348	May 23	2550	580	87	1257
Tablet-holder	W. C. Keeler and F. P. Barr	619,891	Feb. 21	2030	460	86	1249
Tablet holder. Writing-	R. H. Paxton	619,607	Feb. 14	1469	336	86	1115
Tablet-machine	H. Bass and J. M. Welch	625,636	May 23	3044	693	87	1354
Tablet-machine	A. R. Morris	617,255	Jan.	748	174 175	86	147
Tablet-making machine	A. Colton	639,919	Dec. 26	3195	734	89	2549
Tablets. Machine for applying edge-covering strips to	C. H. Crowell	619,870	Feb. 21	1996	453	86	1243
Tabulating-machine	D. E. Felt	628,176	July 4	410	96, 97	88	83
Tachometer. Vibrating	B. C. Ball	623,965	May 2	6	1	87	703
Tack. Carpet-	E. C. Steen	623,847	Apr. 25	3055	702	87	643
Tack machine. Wire-	R. A. Breul	621,957	Mar. 28	2647	596 597	86	2053
Tack. Plumber's	E. Bookhout	622,199	Apr. 4	6	2	87	4
Tackle-block	A. B. Tarbox	638,772	Dec. 12	1103	247	89	2102
Tackle-block	W. C. Wheeler	638,784	Dec. 12	1124	250	89	2106
Tag	O. L. Apthorp	616,875	Jan. 3	7	2	86	4
Tag	E. I. Gay	637,201	Nov. 14	1890	406	89	1923
Tag	A. Keller	621,347	Mar. 21	1510	336	86	1820
Tag	G. L. Reenstierna	626,191	May 30	4178	950	87	1585
Tag. Changeable address-	A. W. Askew	634,159	Oct. 3	331	83	89	68
Tag. Dry-goods	O. Seyd	626,249	June 6	56	13	87	1625
Tag-holder	R. F. Strobel	638,654	Dec. 5	872	190	89	2034
Tag-holder	M. Z. Villefeu	624,410	May 2	848	191	87	864
Tag-holding clip	A. C. Wickham	627,285	June 20	1962	432	87	2034
Tag. Memorandum-	L. J. Scott and F. A. Cameron	629,616	July 25	3106	723	88	660
Tag-pin	E. C. Dunlap	622,453	Apr. 4	453	106	87	84
Tag. Shipper's	J. E. Hewett	639,236	Dec. 19	1929	444	89	2276
Tag. Shipping-	J. P. Fell	619,156	Feb. 7	692	148	86	947
Tags, labels, &c. Device for holding	E. G. Stevens	622,289	Apr. 4	161	39	87	33

Alphabetical list of inventions—Continued.

Invention.	Name.	No.	Date.	Monthly volume. Spec.	Monthly volume. Dr'g.	Official Gazette. Vol.	Official Gazette. Page.
Tags to plug-tobacco. Machine for attaching	W. H. Butler	621,221	Mar. 14	1281	283, 284	86	1763
Tags to plug-tobacco, &c. Machine for attaching metal	W. H. Butler	621,220	Mar. 14	1277	281, 282, 283	86	1762
Tagging and measuring machine	W. S. Hunt and O. W. Cline	635,779	Oct. 31	3380	780, 781	89	728
Tagging-machine. Metallic	T. J. Myers	630,625	Aug. 8	1728	386, 387	88	1072
Tagging machine. Tobacco-	J. R. Cook	624,183	May 2	438	90, 91	87	783
Tagging plug-tobacco. Machine for	J. V. Bohannan	628,746	July 11	1510	350	88	315
Tagging plug-tobacco. Machine for	J. V. Bohannan	634,321	Oct. 3	669	161, 162	89	134
Tagging plug-tobacco. Machine for	F. W. Woerner	628,508	July 11	1036	241, 242, 243	88	220
Tail-gate	J. L. Crisler	624,756	May 9	1474	335	87	1010
Tailor's iron	C. W. Iden	630,980	Aug. 15	2347	535	88	1218
Talking-board instrument	J. F. Simonds	619,236	Feb. 7	827	182	86	974
Talking-machine	L. F. Douglass	630,869	Aug. 15	2132	483	88	1176
Talking-machine sound-reproducer	A. Betzold	633,226	Sept. 19	1950	458	88	2118
Tallying apparatus	C. L. Sturges	627,360	June 20	2135	470	87	2070
Tambourine	O. Richards	636,948	Nov. 14	1172	354	89	1186
Tamping and rolling machine. Combined	G. A. Mauger	619,426	Feb. 14	1173	265, 266	86	1057
Tamping and rolling machine. Combined	G. A. Mauger	619,977	Feb. 21	2168	493	86	1275
Tamping-plug and process of and apparatus for making same.	E. S. Clark	625,380	May 23	2602	592	87	1268
Tanbark-leach	J. D. Wood	631,840	Aug. 29	3921	876	88	1555
Tank: *See* Cyanid filter-tank. Dipping-tank. Flush-tank. Flushing-tank. Gas-tank. Glass-tank. House-tank. Incubator or brooder tank. Oil-tank. Tilting tank. Vacuum-tank. Water-tank.							
Tank	H. B. Camp	637,500	Nov. 21	2453	533	89	1450
Tank	J. H. Franklin	617,857	Jan. 17	1909	427	86	411
Tank and tank-heater. Combined	E. C. Pawley and W. H. Miller	638,063	Nov. 28	3865	813	89	1790
Tank-bottom discharge-door	L. H. Mitchell	624,957	May 16	1855	416, 417	87	1101
Tank-bottom discharge-door	L. H. Mitchell	624,958	May 16	1857	417	87	1101
Tank-cover-manipulating device	W. A. Bradley	639,014	Dec. 12	1532	351	89	2185
Tank discharge-gate	C. W. Merrill	635,442	Oct. 24	2765	632	89	594
Tank-heater	J. H. Benney	635,224	Oct. 17	2304	537	89	489
Tank-heater	E. Sprankle	617,428	Jan. 10	1098	250	86	233
Tank mold. Cement water-	E. E. Sanford	621,977	Mar. 28	2701	609	86	2064
Tank mold. Water-	G. W. Clark	626,054	May 30	3885	882	87	1531
Tank planer and scraper	C. H. Hansen	617,336	Jan. 10	920	212	86	199
Tannin extracts. Making	J. Blair	616,882	Jan. 3	19	------	86	6
Tanning	J. R. and J. S. Brown	625,638	May 23	3047	------	87	1355
Tanning	C. S. Dolley	630,494	Aug. 8	1476	------	88	1024
Tanning	G. W. Houston	623,403	Apr. 18	2227	------	87	465
Tanning	A. Mario	626,181	May 30	4151	945	87	1581
Tanning apparatus	H. Schmidt and J. Landini	637,421	Nov. 21	2314	499	89	1424
Tanning extracts. Making	P. G. Sanford	626,100	May 30	3992	------	87	1549
Tanning hides	T. D. Palmer	625,411	May 23	2652	------	87	1277
Tanning hides. Method of and apparatus for	M. R. Rodriguez	623,563	Apr. 25	2519	578	87	541
Tanning hides or skins	S. P. Sadtler	620,056	Feb. 21	2314	525	86	1302
Tanning hides or skins. Process of and apparatus for	P. G. Salom	625,204	May 16	2269	516	87	1178
Tanning-vat	B. P. Bradford	626,048	May 30	3872	878	87	1529
Tap	C. N. Duncan	637,718	Nov. 21	3223	670	89	1642
Tap	A. J. Göransson and E. W. Lindgren	620,766	Mar. 7	427	88	86	1585
Tap	A. Johnson	626,385	June 6	329	76	87	1677
Tap	W. J. Smith	625,611	May 23	2993	682	87	1344
Tap	W. J. Smith	636,009	Oct. 31	3831	880, 881	89	815
Tap	F. L. White	627,556	June 27	2506	551	87	2158
Tap and die	F. W. Robertshaw	621,288	Mar. 14	1398	310	86	1785
Tap and reamer and making same	H. L. Arnold	632,862	Sept. 12	1238	284	88	1968
Tap. Barrel-	G. R. Cheesman	629,152	July 18	2253	522	88	475
Tap. Beer-	R. E. Kabisch	639,582	Dec. 19	2571	590	89	2407
Tap. Collapsible	W. D. Balcom	624,157	May 2	407	83	87	777
Tap-coupling and valve. Combined	D. J. Reaume	628,285	July 4	624	148	88	120
Tap for beer or other kegs	H. Mock	619,978	Feb. 21	2171	493	86	1275
Tap. Measuring-	A. Woollatt	625,487	May 23	2787	634	87	1304
Tap. Screw-down	S. A. Parkes and O. H. Wagner	624,855	May 9	1668	377, 378	87	1047
Tap-wrench	A. J. Smart	623,435	Apr. 18	2282	523	87	477
Tapping apparatus for liquors	A. G. Hoffmann	618,352	Jan. 24	2837	631	86	601
Tapping apparatus. Main-	J. Conway	627,074	June 13	1591	348	87	1940
Tapping device for casks	A. Becker	635,641	Oct. 24	3112	715	89	662
Tapping-machine	O. Mueller	628,110	July 4	295	70	88	58
Tapping water or gas mains. Machine for	G. Shelley	622,399	Apr. 4	338	78	87	63
Taping device	E. P. Hatch	629,074	July 18	2100	490	88	446
Tappet-setter	J. P. McKeown	638,642	Dec. 5	856	186	89	2031
Target	W. Parnall	631,175	Aug. 15	2694	609	88	1286
Target	E. F. G. Pein	638,986	Dec. 12	1479	339, 340	89	2175
Target	J. Pillorget	638,886	Dec. 12	1300	296	89	2140
Target gallery and appliance	J. L. McCullough	626,500	June 6	526	121	87	1716
Target-trap	A. M. Jenkins	622,924	Apr. 11	1335	307	87	272
Target-trap	A. M. Jenkins	624,044	May 2	166	37	87	734
Target-trap	C. Sebastian	619,625	Feb. 14	1504	343	86	1121
Tawing hides or skins	C. S. Dolley and A. F. Crank	629,124	July 18	2198	------	88	466

Alphabetical list of inventions—Continued.

Invention.	Name.	No.	Date.	Monthly volume. Spec.	Monthly volume. Dr'g.	Official Gazette. Vol.	Official Gazette. Page.
Tawing skins	G. W. Adler	638,685	Dec. 12	957		89	2073
Tea-ball	C. A. White	627,166	June 20	1758	385	87	1993
Tea-kettle	S. F. Albright	618,762	Jan. 31	3603	804	86	764
Tea-kettle	F. S. Hunt	636,805	Nov. 14	1104	237	89	1172
Tea-kettle, &c	W. McAusland	638,641	Dec. 5	855	186	89	2031
Tea-mixer	A. H. Canning	621,521	Mar. 21	1822	405	86	1878
Tea or coffee pot	A. J. Avery	634,861	Oct. 17	1637	383	89	359
Tea or coffee pot handle	G. E. Savage and M. Seips	618,366	Jan. 24	2866	636	86	607
Teaching computation. Device for	M. S. Cunningham	629,891	Aug. 1	264	59	88	772
Teaching music. Device for	J. Morriss	632,137	Aug. 29	4468	1005, 1006	88	1663
Teaching music. Game-cards for	A. P. Chamberlin	621,323	Mar. 21	1472	326	86	1812
Teaching musical notation. Device for	A. L. Palmer	618,611	Jan. 31	3336	741	86	711
Teeter-board and stand therefor	B. G. Lowrey	624,832	May 9	1633	370	87	1041
Teeth. Artificial	W. H. Baird	626,779	June 13	1040	233	87	1835
Teeth. Floss-holder for cleaning	W. J. La Varre	618,009	Jan. 17	2178	487	86	463
Telautograph	F. W. Cushing	639,716	Dec. 26	2827	652	89	2475
Telautograph	G. S. Tiffany	617,890	Jan. 17	1976	441, 442	86	425
Telautograph	G. S. Tiffany	617,891	Jan. 17	1980	442	86	426
Telautograph	G. S. Tiffany	617,892	Jan. 17	1983	443	86	426
Telegraph and telephone. Combined	R. M. Bailey	630,841	Aug. 15	2085	471	88	1166
Telegraph. Column-printing	J. E. Wright	631,452	Aug. 22	3197	726	88	1404
Telegraph. Facsimile	W. P. Dun Lany and T. Mills	631,421	Aug. 22	3144	713, 714	88	1393
Telegraph for transmitting signals, orders, &c. Ship's	L. S. Thompson	623,637	Apr. 25	2647	605, 606, 607	87	564
Telegraph instrument	J. L. Cutler	638,101	Nov. 28	3958	833	89	1806
Telegraph-instrument key	C. J. Scheffler and C. V. Walls	637,290	Nov. 21	2053	440	89	1370
Telegraph-key attachment	A. J. Hendricks	619,410	Feb. 14	1138	257	86	1051
Telegraph. Magneto-electric	L. G. Woolley	631,356	Aug. 22	3022	684	88	1370
Telegraph. Multiple	E. J. P. Mercadier and H. R. J. Pierquin.	622,629	Apr. 4	792	184, 185	87	150
Telegraph. Printing	F. Hachmann	630,827	Aug. 8	2060	464, 465	88	1139
Telegraph. Printing	K. Himrod	624,487	May 9	990	220, 221, 222, 223, 224	87	914
Telegraph. Printing	S. J. Small	621,863	Mar. 28	2459	549, 550, 551	86	2019
Telegraph. Printing	D. G. Smyth	623,846	Apr. 25	3051	701, 702	87	642
Telegraph receiver or relay	J. Gallegos	626,606	June 6	691	160	87	1749
Telegraph-register	E. B. Ellicott and L. E. Oehring	632,046	Aug. 29	4290	964	88	1627
Telegraph-register inking device	L. E. Oehring	638,419	Dec. 5	447	92	89	1951
Telegraph-sounder	J. S. Baynard	629,645	July 25	3151	735	88	668
Telegraph. Step-by-step printing	W. S. Steljes	624,561	May 9	1141	255, 256	87	944
Telegraph-switchboard	J. F. Skirrow	631,132	Aug. 15	2621	593	88	1271
Telegraph system. Printing	C. L. Healey	633,586	Sept. 26	2631	615	88	2263
Telegraph-transmitter	J. E. Wright	631,454	Aug. 22	3201	727	88	1405
Telegraph-wire joint	T. D. Wilkinson	635,007	Oct. 17	1884	448	89	408
Telegraphs. Transmitter for multiple	W. A. Houghtaling	620,778	Mar. 7	451	93	86	1589
Telegraphic sounder	J. H. Bunnell	627,799	June 27	2955	646	87	2247
Telegraphic relay	J. E. Wright	631,453	Aug. 22	3199	727	88	1404
Telegraphy. Apparatus employed in wireless	G. Marconi	624,516	May 9	1054	237, 238	87	926
Telegraphy. Apparatus employed in wireless	G. Marconi	627,650	June 27	2691	590	87	2195
Telegraphy. Automatic	S. Whitehall	630,151	Aug. 1	792	171, 172	88	879
Telegraphy. Automatic	S. Whitehall	630,152	Aug. 1	796	172	88	880
Telegraphy by means of electric lights	K. Zickler	625,823	May 30	3406	773	87	1442
Telegraphy. System of multiplex	H. A. Rowland	622,636	Apr. 4	806	187, 188, 189	87	153
Telemeter	H. B. Williams	631,192	Aug. 15	2717	615	88	1291
Telemotor apparatus	A. B. Brown	637,705	Nov. 21	3203	666	89	1638
Telephone	T. Berdell	617,433	Jan. 10	1108	253	86	234
Telephone	J. Q. Black	631,271	Aug. 22	2876	650	88	1340
Telephone	H. F., Jr., and M. A. Blackwell	630,797	Aug. 8	2000	452	88	1126
Telephone	W. E. Byrns	617,314	Jan. 10	863	204	86	187
Telephone	C. F. Dunderdale	627,577	June 27	2548	561	87	2166
Telephone	G. F. Payne and A. K. Keller	626,629	June 6	726	167, 168	87	1756
Telephone	J. T. Gent, A. W. Staveley, and I. H. Parsons. (Reissue.)	11,719	Feb. 21	2371	537	86	1313
Telephone and push-button. Combined	B. F. Smith	635,944	Oct. 31	3698	854	89	788
Telephone antiseptic and germicide attachment	A. E. Woolf	634,933	Oct. 17	1748	415	89	380
Telephone apparatus. Coin controlled and registering	R. D. Cranston and S. M. Williams	619,868	Feb. 21	1987	451, 452	86	1241
Telephone attachment	F. Lind, Jr.	619,493	Feb. 14	1282	293	86	1080
Telephone attachment	D. Queen	639,768	Dec. 26	2930	674	89	2496
Telephone attachment	H. J. Richardson	639,826	Dec. 26	3033	698	89	2516
Telephone. Automatic	E. E. Ries	639,291	Dec. 19	2025	467, 468	89	2296
Telephone cabinet and support	P. W. Bossart	622,412	Apr. 4	382	88	87	71
Telephone-call apparatus. Coin-controlled	G. B. Heath	635,852	Oct. 31	3522	810	89	754
Telephone call-bells. Auxiliary electric alarm for	M. M. Humphrey	626,382	June 6	325	75	87	1676
Telephone-call register	W. Gray	636,134	Oct. 31	4093	937	89	867
Telephone-call register	B. Krausse	620,042	Feb. 21	2288	519, 520	86	1298
Telephone-call register	J. Shannon	635,195	Oct. 17	2249	524	89	479

Alphabetical list of inventions—Continued.

Invention.	Name.	No.	Date.	Monthly volume. Spec.	Monthly volume. Dr'g.	Official Gazette. Vol.	Official Gazette. Page.
Telephone-calls. Switch-handle for	O. R. Cline	619,034	Feh. 7	452	95	86	898
Telephone central-office circuit	H. M. Crane	620,745	Mar. 7	393	80	86	1578
Telephone-circuit	H. Brockelt	631.150	Aug. 15	2651	600	88	1277
Telephone-circuit	P. G. Burgess and H. W. Wilder	626,826	June 13	1118	250	87	1848
Telephone-circuit	J. J. Möller	637,884	Nov. 28	3541	742	89	1726
Telephone-circuit and switching apparatus	T. C. Wales, Jr	627,813	June 27	2976	651	87	2251
Telephone connecting-circuit	G. K. Thompson and T. C. Wales, Jr.	626,111	May 30	4010	915	87	1553
Telephone current-supply circuit	C. E. Scribner	638,422	Dec. 5	453	93	89	1952
Telephone-desk	I. N. Freeland	626,896	June 13	1291	284	87	1882
Telephone-desk and directory-support. Combined	S. H. Dodd	633,432	Sept. 19	2334	551	88	2192
Telephone desk and register	H. F. Forrest	621,054	Mar. 14	984	214	86	1703
Telephone-directory. Automatic	J. B. Neuendorff	634,994	Oct. 17	1865	443	89	404
Telephone duplex switch	G. C. Buell	623,352	Apr. 18	2142	493	87	447
Telephone-exchange annunciator	W. R. Cole	619,942	Feh. 21	2113	478	86	1264
Telephone-exchange switch and signal apparatus	W. W. Dean	617,145	Jan. 3	553	131	86	108
Telephone-exchange switch apparatus and circuits	C. H. Arnold	627,814	June 27	2980	652	87	2252
Telephone-exchange switchhoard signaling apparatus.	T. C. Wales, Jr	633,403	Sept. 19	2286	538	88	2183
Telephone-exchange system	G. L. Cragg	629,957	Aug. 1	427	93	88	806
Telephone-exchange system	C. E. Scribner	632,066	Aug. 29	4330	973	88	1634
Telephone-exchange system. Automatic	W. Decker	626,983	June 13	1431	315, 316	87	1910
Telephone-exchanges. System of automatic	G. Seligmann-Lui	639,186	Dec. 12	1808	419, 420, 421, 422	89	2239
Telephone-holder	M. Wohlgemuth	629,058	July 18	2067	482	88	440
Telephone instrument	J. J. Schoenleber	639,830	Dec. 26	3040	699	89	2518
Telephone-lines. Connection-counting mechanism for	C. E. Scribner	617,839	Jan. 17	1873	419	86	404
Telephone-lines. Lock-out mechanism for party	C. E. Scribner	617,840	Jan. 17	1878	419	86	405
Telephone-lines. Selective privacy-switch for multiple-station	J. A. Barrett	626,132	May 30	4057	925	87	1562
Telephone-mouthpiece	A. Laemmel	631,081	Aug. 15	2538	575	88	1256
Telephone number and address annunciator	W. J. Walsh	632,297	Sept. 5	172	39	88	1741
Telephone or telegraph poles, &c. Post and bar applicable for	B. O. V. Hellström	623,714	Apr. 25	2776	635	87	589
Telephone pay-station coin-holder	W. Gray	636,135	Oct. 31	4095	937	89	868
Telephone. Permanently-adjusted	E. H. Thielscher	624,128	May 2	337	69	87	764
Telephone-receiver	P. C. Burns	625,142	May 16	2174	493	87	1160
Telephone-receiver	J. J. Mulconroy	616,953	Jan. 3	168	38	86	34
Telephone-receiver	J. A. Williams	631,354	Aug. 22	3017	684	88	1369
Telephone-receiver	J. A. Williams	631,355	Aug. 22	3019	684	88	1369
Telephone-register	H. T. Richards	624,095	May 2	279	57	87	754
Telephone-register	H. T. Richards	624,542	May 9	1106	249	87	936
Telephone-register. Coin-controlled	T. J. Hock and E. Happersberger	626,809	June 13	1086	244	87	1843
Telephone-repeater	W. M. Davis	625,247	May 16	2356	536	87	1195
Telephone. Repeating and transmitting	G. K. Thompson	628,046	July 4	157	33	88	33
Telephone signaling system	D. M. Bliss	619,662	Feh. 14	1575	359	86	1135
Telephone-station toll-collecting appliance	C. E. Scribner	638,480	Dec. 5	564	117	89	1974
Telephone-switch	W. D. Gharky	620,440	Feh. 28	2983	683	86	1444
Telephone-switch	S. B. Rawson	638,471	Dec. 5	549	113, 114	89	1972
Telephone switch apparatus, signal, and circuit	T. C. Wales, Jr	628,567	July 11	1165	273	88	245
Telephone-switch. Automatic	C. S. Karoly	621,346	Mar. 21	1508	335	86	1820
Telephone-switchboard	S. Morrison and T. L. Springer	638,521	Dec. 5	634	131, 132	89	1987
Telephone-switchboard	J. M. Overshiner	617,691	Jan. 10	1572	356	86	325
Telephone-switchboard	J. M. Overshiner	617,692	Jan. 10	1576	357	86	326
Telephone-switchhoard	J. M. Overshiner	618,610	Jan. 31	3332	741	86	710
Telephone-switchboard	J. M. Overshiner	620,491	Feh. 28	3057	699	86	1458
Telephone-switchhoard	J. M. Overshiner	624,075	May 2	231	49	87	746
Telephone-switchboard	J. M. Overshiner	625,797	May 30	3346	760, 761	87	1431
Telephone-switchhoard	F. M. Richter	632,749	Sept. 12	1030	238	88	1925
Telephone switchboard and circuits	T. C. Wales, Jr., and K. W. Waterson	632,296	Sept. 5	167	38, 39	88	1740
Telephone-switchhoard annunciator	W. O. Meissner	624,838	May 9	1641	371	87	1042
Telephone-switchboard appliance	J. L. McQuarrie	638,418	Dec. 5	446	92	89	1950
Telephone-switchhoard circuit	E. H. Smythe	623,437	Apr. 18	2285	523	87	477
Telephone-switchhoard circuit	T. C. Wales, Jr	620,004	Feh. 21	2211	503	86	1283
Telephone-switchboard signal	C. E. Scribner	618,137	Jan. 24	2452	547	86	530
Telephone-switchboard signal	C. E. Scribner	638,425	Dec. 5	457	94	89	1953
Telephone-switchboard supervisory signal	C. E. Scribner	638,426	Dec. 5	461	94	89	1954
Telephone-switchboard system and annunciator	G. B. Rodgers	622,268	Apr. 4	119	27	87	26
Telephone-switchboards. Combined listening and ringing key for	W. O. Meissner	623,611	Apr. 25	2607	595, 596	87	557
Telephone-switchhoards. Drop-restoring device for	F. B. Cook	639,527	Dec. 19	2466	569	89	2385
Telephone system	W. W. Bennett	628,068	July 4	199	45	88	40
Telephone system	C. L. Boyce	620,733	Mar. 7	364	74, 75	86	1572
Telephone system	W. M. Davis	638,547	Sept. 19	2523	593	88	2227
Telephone system	C. E. Egan, B. L. Lawton, and E. C. Wilcox.	621,449	Mar. 21	1683	374	86	1852
Telephone system	S. B. Fowler	632,709	Sept. 12	962	223	88	1912
Telephone system	W. D Gharky	626,462	June 6	452	106	87	1701
Telephone system	W. D. Gharky	626,463	June 6	454	106	87	1702
Telephone system	E. W. Ham	634,575	Oct. 10	1131	269	89	243
Telephone system	R. J. Hewett	629,163	July 18	2268	526	88	478
Telephone system	M. S. Keyes and J. H. Spencer	631,167	Aug. 15	2683	606	88	1283
Telephone system	F. A. Lundquist	624,666	May 9	1309	292, 293	87	976
Telephone system	J. C. Slater	632,759	Sept. 12	1046	243, 244	88	1928
Telephone system	D. M. Therrell	624,881	May 9	1714	388	87	1056
Telephone system	E. P. Trayer and D. A. Reynolds	636,366	Nov. 7	235	52	89	968
Telephone system	D. H. Wilson	617,382	Jan. 10	1006	230, 231	86	215

Alphabetical list of inventions—Continued.

Invention.	Name.	No.	Date.	Monthly volume. Spec.	Monthly volume. Dr'g.	Official Gazette. Vol.	Official Gazette. Page.
Telephone systems. Coin-controlled call-recording device for	J. B. Gill	635,378	Oct. 24	2586	600	89	560
Telephone systems. Electric signaling apparatus for	F. H. Brown	622,646	Apr. 4	840	194	87	159
Telephone systems. Electroharmonic signaling apparatus for	F. H. Brown	622,645	Apr. 4	837	193	87	159
Telephone time-alarm	H. Keim	628,472	July 11	979	227	88	209
Telephone toll apparatus	J. T. Belanger	627,172	June 20	1769	387	87	1995
Telephone toll apparatus	M. C. Mengis	631,023	Aug. 15	2426	550	88	1233
Telephone toll-circuit	H. M. Crane and T. C. Wales, Jr	626,146	May 30	4084	931	87	1567
Telephone-toll-collecting apparatus	H. G. Sweeney	636,418	Nov. 7	316	71,72	89	984
Telephone transfer-board	F. B. Cook	639,528	Dec. 19	2467	569, 570	89	2385
Telephone-transmitter	P. C. Burns	623,702	Apr. 25	2760	632	87	586
Telephone-transmitter	E. F. Frost	637,453	Nov. 21	2367	512	89	1433
Telephone-transmitter	E. H. Johnson	623,908	Apr. 25	3165	729	87	664
Telephone-transmitter	T. Lidberg	632,355	Sept. 5	264	62	88	1759
Telephone-transmitter	J. H. Spencer	624,696	May 9	1369	306	87	988
Telephone-transmitter	J. H. Spencer	624,697	May 9	1371	306	87	988
Telephone-transmitter arm	L. Schmidt	635,812	Oct. 31	3436	793	89	738
Telephone-transmitter sanitary attachment	W. Lenderoth	636,676	Nov. 7	807	179	89	1086
Telephone transmitters and receivers. Sanitary guard for	C. B. Doolittle and E. H. Everit	627,820	June 27	2991	654	87	2254
Telephone trunk-line signal	F. R. McBerty	636,275	Nov. 7	90	21	89	940
Telephone trunk-line signal	F. R. McBerty	636,276	Nov. 7	93	21	89	941
Telephone trunk-line signaling	T. C. Wales, Jr	636,872	Nov. 14	1221	264	89	1196
Telephone writing-desk	D. H. Moore	627,866	June 27	3071	672	87	2270
Telephones. Apparatus for indicating the number of conversations through	C. Petersen	628,113	July 4	298	70	88	59
Telephones. Circuit and apparatus for bridging	C. T. Mason	626,624	June 6	715	165, 166	87	1754
Telephones. Combined generator and ringer for	J. G. Nolen	633,146	Sept. 19	1787	420	88	2085
Telephonic apparatus	G. L. Anders	635,008	Oct. 17	1885	448, 449	89	408
Telephonic circuits. Toll counter or register for	G. K. Thompson	619,240	Feb. 7	832	183	86	976
Telephonic systems. Apparatus for	F. B. Cook	639,526	Dec. 19	2462	569	89	2384
Telephonic trunk-circuit	T. C. Wales, Jr., and H. M. Crane	623,583	Apr. 25	2556	586	87	548
Telephonograph	J. E. O. Kumberg	636,209	Oct. 31	4229	973	89	895
Telephony	M. Hutin and M. Leblanc	628,246	July 4	535	129, 130	88	106
Telephony	J. S. Stone	638,152	Nov. 28	4058	856	89	1825
Telephony and telegraphy. Multiple	M. Hutin and M. Leblanc	628,247	July 4	542	130, 131	88	107
Telescope. Terrestial	C. Pulfrich	621,283	Mar. 14	1389	308	86	1784
Telescopes. Optical correcting device for refracting-	L. Schupmann	620,978	Mar. 14	833	183	86	1675
Telescopic box. Hinged	C. J. Russell	637,997	Nov. 28	3744	787	89	1766
Telescopic clamp	G. W. Kortright. (Reissue)	11,731	Apr. 11	1713	395	87	347
Telescopic mounting	C. A. R. Lundin	617,108	Jan. 3	476	114	86	93
Telethermometer	G. F. Atwood	636,884	Nov. 14	1249	269	89	1200
Tellurian	C. J. Boehm	637,226	Nov. 21	1945	415	89	1349
Tellurian	C. A. Bowsher	634,608	Oct. 10	1182	281	89	252
Tellurian	S. Kristian	627,697	June 27	2771	607	87	2209
Tellurian	J. E. Lyons	617,589	Jan. 10	1386	315	86	289
Tellurian	J. A. Mitchell and F. A. Reynolds	620,603	Mar. 7	95	18,19	86	1521
Tellurian	R. Mowery	635,175	Oct. 17	2214	516, 517	89	472
Tellurian	D. T. Williams	621,007	Mar. 14	890	193	86	1686
Temperature-indicator. Electric	J. H. Dorion	622,917	Apr. 11	1323	305	87	270
Temperature limits. Mechanism for controlling and indicating	E. H. Griffiths and W. C. D. Whetham.	633,191	Sept. 19	1864	439	88	2100
Temperature of heated air. Apparatus for regulating	L. F. Gjers and J. H. Harrison	630,682	Aug. 8	1818	409, 410	88	1089
Temperature-regulating apparatus	W. S. Johnson	624,046	May 2	174	38	87	735
Temperature-regulator. Automatic	A. Roesch	625,518	May 23	2838	647	87	1313
Templet-perforating device	J. Marsden	630,615	Aug. 8	1699	382	88	1067
Tennis-court marker	H. D. Burnett	632,891	Sept. 12	1311	301	88	1980
Tenoning-bit	C. Tolle	631,344	Aug. 22	3002	681	88	1365
Tenoning-machine	W. Brodhage	622,794	Apr. 11	1093	254	87	227
Tenoning-machine	J. E. Rinker	639,772	Dec. 26	2939	676	89	2498
Tenoning-machine relishing attachment	V. C. Luppert	623,485	Apr. 18	2369	545	87	494
Tenpin-ball	H. G. Wilmerling	626,584	June 6	656	152	87	1742
Tension device	R. L. Cleveland	618,003	Jan. 17	2170	484	86	461
Tension device	P. E. Spickler	617,516	Jan. 10	1241	283	86	262
Tension-equalizing device	W. J. Shaw	634,703	Oct. 10	1349	319	89	286
Tension mechanism and slack-thread controller. Combined	J. Maitland	625,579	May 23	2944	669	87	1334
Tension-wheel	C. Fickelscheer	618,456	Jan. 31	3058	676	86	658
Tent	T. W. Hickson	627,932	June 27	3195	699	87	2297
Tent	G. E. Mason	620,600	Mar. 7	85	16	86	1519
Tent	G. W. Owens	627,626	June 27	2652	582	87	2188
Tent	R. O. Stebbins	618,367	Jan. 24	2868	636, 637	86	607
Tent-frame and cot. Combination	L. Conn	627,100	June 20	1646	360	87	1971
Tents. Construction of	A. J. Nicholson	620,719	Mar. 7	334	68,69	86	1566
Teredos and other marine growths. Apparatus for destroying	J. W. Farley	632,919	Sept. 12	1356	313	88	1989
Terminal-head box	H. E. Procunier	637,894	Nov. 28	3563	746	89	1730
Terne plates. Rolls for making	T. Williams	623,389	Apr. 18	2205	506	87	460
Terra-cotta or clay die	G. W. Weaver	621,467	Mar. 21	1721	382	86	1860
Terret	P. A. Wegeng	638,533	Dec. 5	657	137	89	1991
Test apparatus. Traveling	E. Speiden, Jr	616,983	Jan. 3	221	51,52	86	44
Testing device	R. H. Pinkham	623,335	Apr. 18	2110	484	87	441
Tether	T. C. Covington	623,596	Apr 25	2584	591	87	553
Tether	W. Hudson	636,407	Nov. 7	301	68	89	981
Tether	A. Little	633,016	Sept. 12	1514	352	88	2020

Alphabetical list of inventions—Continued.

Invention.	Name.	No.	Date.	Monthly volume. Spec.	Monthly volume. Dr'g.	Official Gazette. Vol.	Official Gazette. Page.
Tether	G. C. W. Magruder	628,950	July 18	1881	436	88	403
Tether	E. A. Whorley	636,020	Oct. 31	3851	885	89	819
Textile	G. R. Shevill	623,842	Apr. 25	3043	700	87	640
Textile-clamp	C. L. Weichelt	619,031	Feb. 7	449	94	86	897
Textile-clamp	C. L. Weichelt	633,630	Sept. 26	2716	632	88	2278
Textile fabric	W. Strang, Jr.	628,867	July 11	1721	402	88	355
Textile materials to openers. Means for regulating feed of	T. R. Marsden	619,425	Feb. 14	1171	264	86	1057
Textile or analogous machines. Device for weighting rolls in	F. P. Rand	632,947	Sept. 12	1398	323	88	1997
Textile piece goods. Ticket-holder for application to blocks for	H. Haine	629,560	July 25	2994	690	88	638
Thawing apparatus	R. A. Lackman	617,168	Jan. 3	594	139	86	116
Thawing apparatus	J. W. Livermore	622,053	Mar. 28	2817	635	86	2088
Thawing apparatus	C. Taylor and C. E. Robertson	633,627	Sept. 26	2708	630, 631	88	2277
Thawing apparatus. Steam	G. R. Elliott	620,112	Feb. 28	2417	546	86	1336
Thawing frozen earth, &c. Heater for	C. P. Brown	629,740	July 25	3318	775	88	701
Thawing frozen ground	P. Anderson	620,402	Feb. 28	2919	669	86	1432
Thawing frozen ground. Apparatus for	J. Whitehead	632,388	Sept. 5	326	74	88	1771
Thawing frozen ground. Portable device for	L. L. Kendall	624,945	May 16	1836	412	87	1097
Thawing-hood	J. C. Garvey	633,691	Sept. 26	2824	656	88	2301
Theater apparatus	S. R. Ellis	618,077	Jan. 24	2330	520	86	507
Theater-dimmer	A. W. Berresford	628,685	July 11	1403	326	88	291
Theatrical appliance	J. R. Grismer	635,043	Oct. 17	1952	462	89	421
Theatrical appliance	F. S. Lotto	633,018	Sept. 12	1516	352, 353	88	2020
Theatrical purposes. Tilting bridge for	S. R. Ellis	618,076	Jan. 24	2329	519	86	507
Theatrical scenery	R. Whytal	631,450	Aug. 22	3194	725, 726	88	1404
Theatrical stage appliance	O. Gates	617,154	Jan. 3	570	134	86	112
Theobromin. Making	E. Fischer	631,705	Aug. 22	3657	------	88	1496
Theodolite, level, &c	A. W. Brightmore	618,161	Jan. 24	2516	558	86	541
Thermal protector	C. E. Scribner	638,424	Dec. 5	456	94	89	1953
Thermocauterizer	J. B. Dechery	634,613	Oct. 10	1194	282, 283	89	254
Thermometer. Clinical	S. Yankauer	626,124	May 30	4039	922	87	1558
Thermometer. Maximum	G. W. Simpson	631,095	Aug. 15	2562	579	88	1259
Thermometer. Oven-	C. P. White	618,260	Jan. 24	2687	595	86	572
Thermostat	J. Butcher	631,278	Aug. 22	2885	652, 653	88	1342
Thermostat	G. F. Richardson	634,911	Oct. 17	1711	404	89	373
Thermostat	A. Roesch	624,098	May 2	284	58	87	755
Thermostat. Electric	L. H. Des Isles	630,671	Aug. 8	1800	406	88	1086
Thermostatic instrument	C. Burgher	627,322	June 20	2047	451	87	2052
Thermostatic trap	J. F. McElroy	634,538	Oct. 10	1064	254	89	230
Thill-coupling	F. H. Aubeuf	632,036	Aug. 29	4268	959	88	1623
Thill-coupling	J. R. Ballard	636,235	Nov. 7	8	2	89	926
Thill-coupling	G. V. Barnes	618,931	Feb. 7	219	48	86	847
Thill-coupling	J. H. Battenfield	619,122	Feb. 7	618	132	86	932
Thill-coupling	C. A. Behlen	621,596	Mar. 21	1951	436	86	1904
Thill-coupling	C. A. Behlen	626,851	June 13	1177	262	87	1859
Thill-coupling	C. A. Behlen	627,248	June 20	1898	418	87	2021
Thill-coupling	W. H. Bowe	629,488	July 25	2866	666	88	613
Thill-coupling	J. C. Bowers	622,597	Apr. 4	743	172	87	141
Thill-coupling	C. C. Bradley	617,558	Jan. 10	1327	299	86	277
Thill-coupling	C. C. Bradley	617,559	Jan. 10	1329	299	86	277
Thill-coupling	C. C. Bradley	627,175	June 20	1773	388	87	1996
Thill-coupling	C. C. Bradley	634,549	Oct. 10	1088	258	89	234
Thill-coupling	L. D. Brown	617,142	Jan. 3	548	130	86	107
Thill-coupling	K. Buland	621,485	Mar. 21	1753	391	86	1866
Thill-coupling	L. L. Cole	638,379	Dec. 5	372	78	89	1937
Thill-coupling	E. F. Colvin	622,604	Apr. 4	752	174	87	143
Thill-coupling	M. N. Crary	623,948	Apr. 25	3227	746	87	677
Thill-coupling	B. B. Crawford	639,714	Dec. 26	2825	652	89	2475
Thill-coupling	G. W. Davis	632,550	Sept. 5	640	149	88	1833
Thill-coupling	A. H. Forsythe	633,442	Sept. 19	2348	554	88	2195
Thill-coupling	W. Gepford	638,109	Nov. 28	3974	836	89	1809
Thill-coupling	W. H. Grow	625,498	May 23	2809	640	87	1307
Thill-coupling	I. F. Hauff	624,329	May 2	708	157	87	836
Thill-coupling	T. Hester and R. Haupt	618,461	Jan. 31	3067	679	86	660
Thill-coupling	H. Higgin	634,456	Oct. 10	919	220	89	201
Thill-coupling	R. Hollar	638,710	Dec. 12	998	222	89	2080
Thill-coupling	W. D. and H. W. Hopkins	623,214	Apr. 18	1887	433	87	395
Thill-coupling	S. W. Kelchner	627,426	June 20	2264	500	87	2094
Thill-coupling	W. Knapp	625,956	May 30	3655	830	87	1489
Thill-coupling	K. Knudson and H. Giles	624,501	May 9	1022	231	87	919
Thill-coupling	J. W. Kohn	626,026	May 30	3836	870	87	1523
Thill-coupling	W. A. Lapp	621,926	Mar. 28	2588	583	86	2042
Thill-coupling	W. A. Lapp	639,253	Dec. 19	1956	450	89	2282
Thill-coupling	O. W. Linstrum	626,622	June 6	712	165	87	1753
Thill-coupling	H. A. Luttgens	634,116	Oct. 3	246	62	89	52
Thill-coupling	G. B. Lutz	639,415	Dec. 19	2276	526	89	2346
Thill-coupling	A. B. Lyman	630,001	Aug. 1	514	113	88	825
Thill-coupling	M. Maher	620,871	Mar. 7	623	136	86	1625
Thill-coupling	L. G. Mayer	626,548	June 6	600	138	87	1730
Thill-coupling	R. H. and W. A. McNair	629,013	July 18	1991	463	88	425
Thill-coupling	J. Mealey	623,091	Apr. 11	1627	375	87	331
Thill-coupling	P. W. Morehead	628,952	July 18	1885	437	88	404
Thill-coupling	H. A. Moyer	636,831	Nov. 14	1145	246	89	1180
Thill-coupling	J. W. Mullins	619,332	Feb. 14	1002	226	86	1026
Thill-coupling	W. H. Nichols	638,936	Dec. 12	1389	317	89	2157
Thill-coupling	H. L. Oliphant	618,432	Jan. 31	3025	669	86	652
Thill-coupling	H. L. Oliphant and A. F. Mood	624,525	May 9	1067	241	87	929
Thill-coupling	W. Pearce	617,181	Jan. 3	610	143	86	119
Thill-coupling	J. C. Perry	620,721	Mar. 7	337	69	86	1567

Alphabetical list of inventions—Continued.

Invention.	Name.	No.	Date.	Monthly volume.		Official Gazette.	
				Spec.	Drg.	Vol.	Page.
Thill-coupling	T. E. Piper	635,183	Oct. 17	2230	519	89	415
Thill-coupling	L. Prideaux	617,767	Jan. 17	1725	387	86	374
Thill-coupling	L. Prideaux	617,768	Jan. 17	1726	387	86	374
Thill-coupling	F. Reese	628,852	July 11	1697	396	88	351
Thill-coupling	A. G. Reigelman	632,926	Sept. 12	1366	315	88	1990
Thill-coupling	H. P. Richards and B. F. Snyder	623,427	Apr. 18	2271	520	87	475
Thill-coupling	J. Rohlin	619,089	Feb. 7	552	116	86	918
Thill-coupling	A. Ross	618,437	Jan. 31	3035	671	86	653
Thill coupling	W. F. Schubert	621,156	Mar. 14	1164	253	86	1739
Thill-coupling	J. C. Seymour	620,188	Feb. 28	2556	588	96	1361
Thill-coupling	H. O. Simle	639,780	Dec. 26	2952	679	89	2500
Thill-coupling	A. Stevens	621,169	Mar. 14	1183	257	86	1743
Thill-coupling	W. H. Strong	617,972	Jan. 17	2117	474	86	453
Thill-coupling	H. C. Swan	628,255	July 4	570	136	88	111
Thill-coupling	W. C. Wesley and W. Clark	629,057	July 18	2066	481	88	440
Thill-coupling	I. L. Wilber	633,104	Sept. 12	1701	401	88	2056
Thill-coupling	C. W. Youngs	624,602	May 9	1209	272	87	956
Thill-coupling and antirattler	H. Breiding	628,443	July 11	926	216	88	198
Thill-coupling. Antirattling	G. H. Fernald	626,862	June 13	1217	269	87	1867
Thill-coupling. Antirattling	E. Huling	623,546	Apr. 25	2489	572	87	535
Thill-coupling. Antirattling	H. M. Rasley	629,172	July 18	2283	531	88	481
Thill-coupling. Antirattling	W. D. Roeder	629,924	Aug. 1	345	76	88	789
Thill-coupling attachment	E. B. Smith and M. C. Weiglein	637,530	Nov. 21	2508	544	89	1461
Thill-holder	J. A. Henry	631,638	Aug. 22	3544	798	88	1473
Thill-hook for holdback-straps	S. D. Horton	639,985	Dec. 26	3325	762	89	2575
Thill-iron	E. R. Reamer	626,564	June 6	623	144	87	1735
Thill or pole coupling	E. E. Whitney	621,510	Mar. 21	1798	400	86	1874
Thill-support	R. T. Gillespie	623,004	Apr. 11	1479	342	87	302
Thill. Vehicle-	C. A. Ray	639,612	Dec. 19	2616	601	89	2416
Thimble	F. C. Bowen	635,369	Oct. 24	2571	597	89	556
Thimble	W. C. Robison	629,174	July 18	2286	531	88	481
Thimble. Thread-cutting sewing-	F. G. Bonfils	633,635	Sept. 26	2722	634	88	2280
Thimble. Thread-cutting sewing-	E. H. Randell	624,088	May 2	252	53	87	750
Thorium oxids. Obtaining	W. Buddeus	617,636	Jan. 10	1472	------	86	306
Thread-box	M. J. Edwards	624,313	May 2	684	150	87	831
Thread-case	W. H. Huxford	629,367	July 25	2632	611, 612	88	567
Thread-cutter	B. Newsome	630,731	Aug. 8	1890	427	88	1103
Thread-cutter	J. J. Sullivan	623,294	Apr. 18	2036	468	87	427
Thread-cutting tool	N. W. Vandegrift	636,987	Oct. 31	3793	873	89	808
Thread. Hand implement carrying	E. Ruff	617,970	Jan. 17	2113	473	86	452
Thread. Manufacturing fiberless	J. F. Hoyne	625,033	May 16	1976	------	87	1124
Thread or filament. Insoluble	A. Millar	625,345	May 23	2546	------	87	1256
Thread-protector	J. M. Loper	628,408	July 4	853	200	88	163
Thread-protector	J. Schirra	636,566	Nov. 7	599	132	89	1043
Thread-protector. Metallic	J. M. Loper	631,577	Aug. 22	3450	779	88	1454
Thread-tying device	E. E. Orrell	624,672	May 9	1322	295	87	979
Threaded articles. Apparatus for manufacturing	F. T. Giles	634,209	Oct. 3	424	108	89	88
Thresher attachment	J. Taylor	626,041	May 30	3865	876	87	1528
Thresher. Pea-	W. R. Hill	635,482	Oct. 24	2832	646	89	608
Thresher. Pea or bean	J. G. Mahon and C. E. Gower	625,846	May 30	3445	782	87	1449
Threshing and separating machine	P. L. Seib	631,826	Aug. 29	3893	869, 870	88	1550
Threshing and separating machine. Grain	G. B. Sellers	634,148	Oct. 3	309	79	89	65
Threshing attachment for fodder-cutting machines	F. W. Beach	628,571	July 11	1173	275	88	246
Threshing-machine	J. Abell	629,758	Aug. 1	1	1	88	721
Threshing-machine	M. and J. Bowman	635,742	Oct. 31	3311	764	89	714
Threshing-machine	E. Campbell	636,754	Nov. 14	1007	215	89	1152
Threshing-machine	J. H. Gardner	634,663	Oct. 10	1277	302	89	272
Threshing-machine	A. P. Hess	621,493	Mar. 21	1765	394	86	1868
Threshing-machine	D. S. Long	617,402	Jan. 10	1047	238	86	223
Threshing-machine	G. Martel	632,271	Sept. 5	117	26, 27, 28	88	1730
Threshing-machine	W. Pfoff	636,355	Nov. 7	213	47	89	964
Threshing-machine	H. A. Rands	624,378	May 2	784	176, 177	87	851
Threshing-machine	J. B. Welsch	631,514	Aug. 22	3324	755	88	1429
Threshing-machine	W. C. Wilka	639,838	Dec. 26	3054	702, 703	89	2520
Threshing-machine and separator band-cutter and feeder	A. Johnson	631,934	Aug. 29	4074	915	88	1585
Threshing-machine attachment	C. D. Chalfant	616,899	Jan. 3	62	12, 13	86	14
Threshing-machine chaff-separator	J. Arras, Jr	629,186	July 18	2305	535	88	485
Threshing-machine clover-hulling attachment	F. P. Sutton	633,923	Sept. 26	3207	747	88	2378
Threshing-machine corn-shelling and fodder-shredding attachment	E. J. Beale	634,796	Oct. 10	1509	355	89	316
Threshing-machine cross-conveyer	F. C. Stuckel	626,108	May 30	4006	914	87	1552
Threshing-machine cylinder	F. F. Landis	618,360	Jan. 24	2855	634	86	605
Threshing-machine dust-conveyer	G. W. Russell	629,873	Aug. 1	224	50	88	764
Threshing-machine self-feeder	H. Kister	624,822	May 9	1613	366	87	1037
Threshing-machine stacker	A. F. Clark	633,074	Sept. 12	1606	374	88	2039
Threshing-machine straw-carrier	C. M. Stevenson	633,625	Sept. 26	2705	629	88	2276
Threshing-machine straw-rack	F. B. McDaniels	617,116	Jan. 3	492	118	86	97
Threshing-machines. Governor for band-cutters and feeders for	F. J. Wood	630,763	Aug. 8	1940	438	88	1113
Threshold	W. C. Chastain	635,656	Oct. 24	3136	722	89	666
Threshold	J. M. Napier	636,165	Oct. 31	4146	950	89	878
Threshold. Automatic	C. R. Sowden	617,662	Jan. 10	1517	344	86	315
Threshold. Door-	W. D. Roeder	618,013	Jan. 17	2187	489	86	465
Thrust-block	T. Cooper	625,021	May 16	1955	438	87	1120
Thunder and lightning. Apparatus for illustrating the phenomena of	W. Dodd and A. D. Struthers	622,210	Apr. 4	23	5	87	7
Thyroid extract	F. Blum	636,891	Nov. 14	1264	------	89	1204
Thyroid extract and making same	E. Baumann	626,648	June 6	774	------	87	1764
Ticket	M. G. Carrel	633,504	Sept. 19	2444	576	88	2213

Alphabetical list of inventions—Continued.

Invention.	Name.	No.	Date.	Monthly volume. Spec.	Monthly volume. Dr'g.	Official Gazette. Vol.	Official Gazette. Page.
Ticket-case	L. J. Blades	632,231	Sept. 5	7	2	88	1710
Ticket-case	L. W. T. Lodge	634,244	Oct. 3	511	130	89	103
Ticket cutting and assembling machine	C. D. Bradt	623,649	Apr. 25	2668	612, 613	87	568
Ticket-holder	M. H. Jones	639,056	Dec. 12	1589	365	89	2195
Ticket-holder	N. E. Springsteen	632,070	Aug. 29	4339	975	88	1636
Ticket holder and cutter	A. I. Blanchard	630,026	Aug. 1	566	124	88	835
Ticket machine. Pin-	W. G. Metcalf	619,773	Feb. 21	1796	411, 412	86	1203
Ticket or tag. Pin	O. Mussinan	639,082	Dec. 12	1636	379	89	2204
Ticket or tag. Pin	O. Mussinan	639,083	Dec. 12	1637	379	89	2204
Ticket or tag. Pin	O. Mussinan	639,084	Dec. 12	1638	379	89	2204
Ticket. Passenger or transportation	G. S. Atherton	637,067	Nov. 14	1614	349	89	1272
Ticket. Railway-	G. A. Hinkle	639,572	Dec. 19	2556	587	89	2403
Ticket. Railway cash-fare	C. P. Stembel	635,702	Oct. 24	3214	740	89	682
Ticket. Railway mileage-	G. W. Dodson	637,240	Nov. 21	1972	422	89	1354
Ticket. Railway mileage-	W. A. Thrall	617,205	Jan. 3	651	152, 153	86	128
Ticket-stamping machine	W. F. Parsons and A. J. Burt	622,014	Mar. 28	2752	621	86	2075
Ticket. Vending-	C. Cahoon	629,767	Aug. 1	13	4	88	724
Tide-motor. Automatic	J. Bender and E. Smith	623,699	Apr. 25	2756	631	87	585
Tide-power	W. Reed	618,729	Jan. 31	3547	792	86	753
Tie: *See* Bale-tie. Brickwork-tie. Cattle-tie. Cross-tie. Horse-tie. Rail-tie. Railway-tie. Railway cross-tie. Reversible tie. Wall-tie.							
Tie former and fastener	R. M. Sharaf	631,094	Aug. 15	2561	579	88	1259
Tie-frame. Detachable	W. J. Smith	626,939	June 13	1359	299	87	1896
Tie-plate	W. Bagnall	627,816	June 27	2988	653	87	2253
Tie-plate	W. Goldie	625,552	May 23	2902	659	87	1326
Tie-plate	W. Goldie	631,039	Aug. 15	2458	557	88	1240
Tie-plate	W. E. Miller	635,500	Oct. 24	2857	652	89	612
Tie-plate	A. Morrison	622,965	Apr. 11	1408	324	87	287
Tie-plate. Adjustable	F. Burger	633,500	Sept. 19	2439	575	88	2212
Tie-plate-setting machine	G. R. Wilton	636,702	Nov. 7	853	190	89	1096
Tie-plug	W. Goldie	626,060	May 30	3893	884	87	1533
Tile	E. Ahrens	628,737	July 11	1491	345	88	311
Tile	C. C. Alexander	627,378	June 20	2167	477	87	2076
Tile	W. Cartwright	629,337	July 25	2576	597	88	555
Tile	G. W. Crowe	627,327	June 20	2056	452	87	2054
Tile	J. E. Donaldson	638,802	Dec. 12	1158	258, 259	89	2112
Tile	H. Ludeling	633,019	Sept. 12	1518	353	88	2021
Tile-arch construction	S. F. Evans	629,896	Aug. 1	273	62	88	773
Tile-decorating apparatus	T. Holt	634,171	Oct. 3	347	88, 89	89	72
Tile flooring	J. K. Frink	636,200	Oct. 31	4210	968	89	892
Tile for decorative purposes. Non-transparent ornamented	L. Lindemann	634,851	Oct. 10	1617	378	89	337
Tile. Grooved	W. Borgolte	618,197	Jan. 24	2574	569	86	552
Tile. Illuminating-	P. Briganti	634,054	Oct. 3	121	31	89	28
Tile. Illuminating-	J. Jacobs	630,706	Aug. 8	1852	418	88	1096
Tile-laying machine	E. O. Rood and J. Helt	628,039	July 4	146	30	88	30
Tile-manufacturing machine	C. H. D. Wicke	620,817	Mar. 7	517	110	86	1603
Tile or slate fastening. Roofing	M. A. Jackson	625,509	May 23	2826	643	87	1311
Tile. Partition-	W. W. Knowles	621,100	Mar. 14	1063	232	86	1719
Tile-press plunger-head	B. D. Traitel and W. C. Leiber	637,752	Nov. 21	3286	685, 686	89	1654
Tile structure	F. L. O. Wadsworth	632,908	Sept. 12	1340	308	88	1985
Tile structure	F. L. O. Wadsworth	632,909	Sept. 12	1341	308	88	1985
Tile structure and tiles therefor	F. L. O. Wadsworth	62 637	Dec. 19	2671	613	89	2428
Tiles. Machine for manufacturing building-	J. B. Seager	623,261	Apr. 18	1977	453, 454	87	414
Tiles. &c. Machinery for molding, pressing, and delivering	R. Stanley	628,996	July 18	1963	456, 457	88	419
Tiles. Manufacture of	W. Price	625,413	May 23	2654	603, 604	87	1277
Tiles, &c. Mold for manufacturing	G. Bass	635,952	Oct. 31	3711	857	89	790
Tiles. Treating	C. F., A. L., and A. W. Lawton	623,919	Apr. 25	3184	------	87	668
Till and means for checking cash receipts	F. S. D. Scott	635,943	Oct. 31	3695	853, 854	89	788
Tilting box or receptacle	J. C. Murphy	618,120	Jan. 24	2414	538, 539	86	522
Tilting-chair	M. Even	638,224	Dec. 5	28	7	89	1872
Tilting-chair	A. E. Quinlan	622,073	Mar. 28	2848	642	86	2094
Tilting tank for receiving or discharging liquids	G. T. Tilden	621,982	Mar. 28	2706	611	86	2065
Timber-fastening	J. C. Homan	627,418	June 20	2253	497	87	2091
Timber lock-joint	J. F. McCune	637,212	Nov. 14	1913	410	89	1327
Timber-pocket	L. A. Hoerr	633,197	Sept. 19	1874	441	88	2102
Timber-seat	C. Balderston	631,194	Aug. 15	2720	616	88	1291
Time-alarm	J. Mattes and J. A. Norton	634,012	Oct. 3	56	16	89	15
Time-alarm. Electric	G. E. Frank	636,656	Nov. 7	775	169	89	1079
Time-check	H. King	634,983	Oct. 17	1847	438, 439	89	400
Time-check	R. Schulze	628,042	July 4	151	31	88	31
Time-lock. Registering	E. S. Phelps	623,734	Apr. 25	2801	641	87	593
Timepiece-holder	C. H. Ingersoll	628,714	July 11	1451	337	88	302
Time-recorder	S. A. Dean	622,795	Apr. 11	1094	254, 255	87	227
Time-recorder. Workman's	J. and A. Dey	621,994	Mar. 28	2721	614, 615, 616	86	2068
Time-recorder. Workman's	J. W. Deübner	633,126	Sept. 19	1743	411, 412	88	2076
Time-recorder. Workman's	J. C. English	636,246	Nov. 7	26	6,7	89	930

Alphabetical list of inventions—Continued.

Invention.	Name.	No.	Date.	Monthly volume. Spec.	Monthly volume. Dr'g.	Official Gazette. Vol.	Official Gazette. Page.
Time-recorder. Workman's	J. H. Garratt	620,906	Mar. 14	688	151, 152	86	1648
Time-recorder. Workman's	J. H. Garratt	632,712	Sept. 12	965	223, 224	88	1912
Time-recorder. Workman's	A. Griffiths	627,957	June 27	3235	709, 710	87	2306
Time-recorder. Workman's	D. Hepp	625,262	May 16	2386	541	87	1200
Time-recorder. Workman's	C. Korfhage	634,241	Oct. 3	497	128, 129	89	101
Time-recorder. Workman's	E. L. Thurston	632,907	Sept. 12	1338	307	88	1985
Time-recorder. Workman's	W. H. Witham	634,971	Oct. 17	1828	433	88	396
Time recording and checking apparatus. Workman's	W. Whitehead	617,410	Jan. 10	1067	244	88	227
Time recording and checking apparatus. Workman's	W. Whitehead	620,203	Feb. 28	2585	587, 588	86	1367
Time-switch	H. S. Prentiss	632,145	Aug. 29	4481	1009	88	1666
Time-wheel mechanism	G. Smethurst	622,869	Apr. 11	1233	286	87	253
Timing device	W. M. Brown	633,951	Sept. 26	3250	758	88	2387
Tin or can for containing canned foods	F. Schindler	628,359	July 4	772	179	88	148
Tin-plate-cleaning machine	H. F. Akin	623,347	Apr. 18	2129	489	87	445
Tin-plate. Machine for cutting triangular pieces of	T. E. Richter-Sips	620,499	Feb. 28	3071	702	86	1461
Tintype apparatus	W. A. Cope and J. L. Myers	638,907	Dec. 12	1338	305	89	2147
Tinners' tongs	H. O. Reese	627,3[illegible]	June 20	2014	443	87	2045
Tinning. Apparatus for treating black-plate for	W. and J. Schaefer	632,206	Aug. 29	4600	1036, 1037	88	1687
Tipple	C. S. Farrer	617,087	Jan. 3	432	105	86	84
Tippler. Rotary	F. Turnbull	617,065	Jan. 3	398	97, 98	86	77
Tire	D. H. Bradlee	633,680	Sept. 26	2801	652	88	2296
Tire	W. Bundy, J. M. Doan, and S. Heslet.	618,836	Feb. 7	32	7	86	810
Tire	J. A. Burrows	623,703	Apr. 25	2761	632	87	586
Tire	A. W. Conatser	633,685	Sept. 26	2810	654	88	2291
Tire	H. B. Hollifield	617,505	Jan. 10	1219	277	86	257
Tire	C. E. Squier and F. Windham	620,985	Mar. 14	847	186	86	1678
Tire and rim. Combined pneumatic and cushion	L. D. Munger	638,590	Dec. 5	751	162	89	2010
Tire and rim for cycle or other wheels. Pneumatic	E. E. Preston and C. E. Sibson	620,252	Feb. 28	2664	608	86	1383
Tire and rim for wheels. Elastic	P. A. Sparre	637,174	Nov. 14	1832	392	89	1312
Tire and rim for wheels. Elastic	W. F. Williams	627,838	June 27	3021	660	87	2260
Tire armor. Bicycle	E. H. Haupt	620,705	Mar. 7	310	63	86	1561
Tire. Bicycle	C. J. Bailey. (Reissue)	11,768	Aug. 29	4632	1044	88	1694
Tire. Bicycle	W. L. Foote	621,451	Mar. 21	1689	374	86	1853
Tire. Bicycle	W. A. Gilday	621,243	Mar. 14	1317	292	86	1770
Tire. Bicycle	P. S. Griffith	635,929	Oct. 31	3672	848	89	783
Tire. Bicycle	G. H. Lewis	631,727	Aug. 22	3718	834	88	1505
Tire. Bicycle	P. Pitton	636,061	Oct. 31	3932	901	89	835
Tire-bolt wrench	J. G. Kernek	620,657	Mar. 7	216	44	86	1544
Tire-bolt wrench	W. Larson	623,793	Apr. 25	2947	673	87	622
Tire-bolt wrench	T. E. Stockford	626,446	June 6	428	101	87	1696
Tire. Car-wheel	C. H. F. Hüser	622,692	Apr. 11	934	215	87	197
Tire-cleaner. Pneumatic	W. Glasgow	617,288	Jan. 3	811	189	86	160
Tire. Combined elastic and pneumatic	L. D. Munger	638,588	Dec. 5	751	162	89	2010
Tire. Combined metal and rubber vehicle	J. Christy, Jr., and H. E. Randall	620,698	Mar. 7	295	59	86	1559
Tire. Combined pneumatic and cushion	L. D. Munger	638,589	Dec. 5	753	162	89	2010
Tire-cooler	A. C. Schodorf	626,505	June 6	534	123	87	1717
Tire cover. Pneumatic	A. Hansen and T. Lindgreen	627,731	June 27	2832	620	87	2222
Tire-covering	T. E. Comly	627,483	June 27	2367	521	87	2131
Tire. Cushion	J. F. Finin	624,315	May 2	686	151	87	832
Tire. Cushion	J. F. Finin	637,200	Nov. 14	1890	406	89	1323
Tire. Cushion	O. M. J. Ramsey	621,504	Mar. 21	1788	398	86	1871
Tire. Cushion	S. F. Swanson	619,447	Feb. 14	1205	274	86	1063
Tire. Cushioned pneumatic vehicle	E. Kempshall	639,399	Dec. 19	2245	519	89	2341
Tire. Cushioned pneumatic vehicle	E. Kempshall	639,400	Dec. 19	2248	519	89	2341
Tire. Cycle	H. Schnepp	635,354	Oct. 24	2532	589	89	548
Tire. Elastic	W. F. Beasley	636,104	Oct. 31	4038	924	89	856
Tire. Elastic	R. Freysinger	639,165	Dec. 12	1774	411	89	2233
Tire. Elastic vehicle	F. W. Kinney	627,823	June 27	2995	654	87	2255
Tire equipment for vehicle-wheels. Rubber	J. F. Winchell	625,528	May 23	2852	649	87	1316
Tire-fastener	A. Swahn	630,472	Aug. 8	1445	323	88	1018
Tire fender. Pneumatic	J. Coan	639,846	Dec. 26	3073	706	89	2524
Tire for autocars. Elastic	A. Ducasble	639,156	Dec. 12	1762	407	89	2230
Tire for bicycles, &c	T. E. Manney	634,501	Oct. 10	993	237	89	216
Tire for bicycles or similar vehicles	A. Silkman and H. Sexton	629,528	July 25	2949	686	88	630
Tire for bicycles. Detachable	U. P. Smith	637,173	Nov. 14	1830	392	89	1311
Tire for bicycles. Pneumatic	F. W. Schroeder and W. J. H. Carr-Boyd.	639,100	Dec. 12	1676	387	89	2213
Tire for bicycles. Self-inflating	J. F. Everett and A. Kirkman	638,628	Dec. 5	832	180	89	2025
Tire for carriage-wheels. Rubber	G. J. Quinsler and G. W. McNear	628,284	July 4	624	148	88	120
Tire for cycles or other wheels	O. Lavanchy	637,469	Nov. 21	2396	519	89	1440
Tire for cycles. Pneumatic	W. H. Sewell	620,507	Feb. 28	3084	705	86	1464
Tire for cycles. Resilient	J. A. Calantarients	622,415	Apr. 4	386	89	87	72
Tire for vehicle-wheels. Rubber	A. W. Grant	627,501	June 27	2404	527	87	2138
Tire for vehicle-wheels. Rubber	J. A. Swinehart	624,992	May 16	1908	428	87	1112
Tire for wheels. Leather	J. Muir	625,407	May 23	2645	601	87	1276
Tire for wheels of road-vehicles	W. and L. H. Swain	638,605	Dec. 5	788	170	89	2017
Tire for wheels of road-vehicles. Resilient	H. C. Crane	633,429	Sept. 19	2328	549	88	2198
Tire for wheels. Resilient	O. E. Smith	632,069	Aug. 29	4337	975	88	1636
Tire for wheels. Tubular	C. Eickmann and H. H. Fay	634,725	Oct. 10	1401	330	89	296
Tire-heater	E. G. Ferguson and J. P. Holmen	617,152	Jan. 3	568	133	86	111
Tire-heating device	G. F. Moyers	618,710	Jan. 31	3517	785	86	746
Tire. Inflatable	W. F. Cornelius	616,901	Jan. 3	65	13	86	15
Tire-inflater. Automatic	A. Fisher	636,249	Nov. 7	38	9	89	932
Tire-inflating apparatus. Bicycle	M. H. Ray and W. H. Paine	634,958	Oct. 17	1786	424, 425	89	387
Tire-inflating device. Pneumatic	J. F. Wilson	636,308	Nov. 7	140	30, 31	89	949
Tire plugger. Bicycle	C. P. Gifford	632,936	Sept. 12	1380	319	88	1993
Tire. Pneumatic	E. M. Birdsall	633,679	Sept. 26	2799	652	88	2294

Alphabetical list of inventions—Continued.

Invention.	Name.	No.	Date.	Monthly volume.		Official Gazette.	
				Spec.	Dr'g.	Vol.	Page.
Tire. Pneumatic	G. H. Clark	623,278	Apr. 18	2005	460	87	420
Tire. Pneumatic	B. Doyle	620,754	Mar. 7	412	84	86	1581
Tire. Pneumatic	W. I. Dreisbach	622,796	Apr. 11	1098	255	87	228
Tire. Pneumatic	C. Gleises	636,793	Nov. 14	1084	232	89	1167
Tire. Pneumatic	C. A. Hill	627,616	June 27	2633	579	87	2183
Tire. Pneumatic	W. Howard	620,779	Mar. 7	452	93	86	1590
Tire. Pneumatic	A. A. Johnsson	633,848	Sept. 26	3084	716	88	2356
Tire. Pneumatic	J. W. McDougall	625,052	May 16	2014	453	87	1131
Tire. Pneumatic	F. H. Mingay	627,865	June 27	3070	671	87	2269
Tire. Pneumatic	J. A. Murphy and A. D. Rowe	622,060	Mar. 28	2828	637	86	2090
Tire. Pneumatic	C. G. Page	621,971	Mar. 28	2684	604, 605	86	2061
Tire. Pneumatic	S. Pattisson	616,962	Jan. 3	184	42	86	37
Tire. Pneumatic	A. B. Shaw	639,104	Dec. 12	1680	388	89	2214
Tire. Pneumatic	B. F. Taylor	634,920	Oct. 17	1730	410	89	376
Tire. Pneumatic	B. F. Taylor	639,951	Dec. 26	3254	745	89	2560
Tire. Pneumatic	F. Toni	633,373	Sept. 19	2228	525	88	2171
Tire. Pneumatic	J. T. Trench	631,599	Aug. 22	3487	788	88	1463
Tire. Pneumatic	F. W. Veazie and J. S. Patterson	627,785	June 27	2922	639	87	2241
Tire. Pneumatic	R. Wapshare	628,192	July 4	435	103	88	88
Tire. Pneumatic	J. P. Warner	619,453	Feb. 14	1216	276	86	1066
Tire. Pneumatic	H. N. Wayne	622,303	Apr. 4	189	41	87	35
Tire. Pneumatic	H. N. Wayne	622,304	Apr. 4	191	42	87	36
Tire. Pneumatic	A. J. Whisler	618,755	Jan. 31	3595	802, 803	86	763
Tire. Pneumatic wheel	G. H. Clark	618,395	Jan. 31	2951	653	86	639
Tire. Pneumatic wheel	G. H. Clark	619,544	Feb. 14	1361	313	86	1095
Tire. Pneumatic wheel	G. H. Clark	623,276	Apr. 18	2003	459	87	420
Tire. Pneumatic wheel	G. H. Clark	636,377	Nov. 7	255	57	89	972
Tire. Pneumatic wheel	G. H. Clark	636,896	Nov. 14	1271	273	89	1205
Tire protector. Pneumatic	W. Stoffel	618,808	Jan. 31	3688	826	86	781
Tire-pump. Automatic	J. E. Jacobs	625,034	May 16	1977	441	87	1124
Tire puncture-closure. Pneumatic	R. W. Sampson	632,540	Sept. 5	616	141	88	1829
Tire repair-patch. Rubber	J. E. Bancroft	622,436	Apr. 4	426	99	87	79
Tire repair-tool. Bicycle	C. E. Kelly	617,810	Jan. 17	1826	408	86	395
Tire repair-tool. Pneumatic	H. C. March	622,377	Apr. 4	306	71	87	59
Tire repairer. Bicycle	E. Erickson	637,722	Nov. 21	3228	671	89	1642
Tire-repairing tool	R. Johnston	636,903	Nov. 14	1287	277, 278	89	1208
Tire-repairing tool. Bicycle	H. C. Wingate	634,193	Oct. 3	383	98	89	79
Tire. Rubber	W. Langmuir	627,672	June 27	2729	598	87	2202
Tire. Rubber vehicle	C. E. Walters	627,607	June 27	2617	576	87	2180
Tire-setter	C. S. Smith	637,834	Nov. 28	3438	718	89	1705
Tire setter and placer	S. R. Duvall	631,157	Aug. 15	2663	602	88	1279
Tire-setting machine. Automatic	B. McGovern	621,272	Mar. 14	1363	303, 304	86	1779
Tire-setting machine. Rubber	J. A. Burrows	635,914	Oct. 31	3647	841	89	779
Tire shield. Bicycle	D. W. Williams	631,142	Aug. 15	2634	596	88	1274
Tire shield. Pneumatic	F. Beaven and J. Delphin	629,230	July 18	2372	551	88	498
Tire-shrinker	M. D. Gould, Sr	632,998	Sept. 12	1478	344	88	2013
Tire-shrinker	T. R. Pangle	639,277	Dec. 19	1997	460	89	2291
Tire-tightener	H. C. Alley	630,311	Aug. 8	1087	237	88	951
Tire-tightener	H. H. Baltzley	622,591	Apr. 4	737	170	87	140
Tire-tightener	E. Craig	620,744	Mar. 7	392	80	86	1578
Tire-tightener	C. L. Ferriott	632,706	Sept. 12	952	221	88	1910
Tire-tightener	J. J. Folks	633,825	Sept. 26	3038	705	88	2345
Tire-tightener	E. M. Freeman	624,474	May 9	973	216	87	911
Tire-tightener	W. Hamilton	627,413	June 20	2245	495	87	2090
Tire-tightener	H. T. Kay	636,204	Oct. 31	4214	969	89	892
Tire-tightener	J. Keepers	617,508	Jan. 10	1225	278	86	258
Tire-tightener	H. Meyer	633,602	Sept. 26	2662	621	88	2268
Tire-tightener	W. Schau	632,152	Aug. 29	4494	1012	88	1669
Tire valve. Bicycle	D. B. Camp	635,915	Oct. 31	3648	841	89	779
Tire valve. Bicycle	R. Honold	634,752	Oct. 10	1444	339	89	303
Tire-valve fastening	J. H. and E. O. Goss	632,218	Aug. 29	4616	1040	88	1691
Tire-valve inserter	A. Whisler	639,476	Dec. 19	2389	550	89	2369
Tire valve. Pneumatic	E. P. L. Hardy	620,314	Feb. 28	2779	635	86	1405
Tire valve. Pneumatic	T. Harrison	633,585	Sept. 26	2630	615	88	2263
Tire valve. Pneumatic	H. Leineweber	621,105	Mar. 14	1073	233	86	1721
Tire valve. Pneumatic	F. E. Rickman	621,849	Mar. 28	2438	544	86	2015
Tire-valve support and air-pump	E. Gabel	639,552	Dec. 19	2526	580	89	2397
Tire. Vehicle	C. T. Adams	638,684	Dec. 12	955	213	89	2073
Tire. Vehicle	D. E. Bennett	640,082	Dec. 26	3494	801	89	2610
Tire. Vehicle	J. Coomber	622,120	Mar. 28	2937	666	86	2111
Tire. Vehicle	J. J. Czepull	619,871	Feb. 21	1998	454	86	1243
Tire. Vehicle	H. M. Du Bois	637,717	Nov. 21	3221	670	89	1641
Tire. Vehicle	J. D. Prescott	634,069	Oct. 3	146	38	89	33
Tire. Vehicle	T. D. Stewart	632,378	Sept. 5	313	71	88	1768
Tire. Vehicle cushion	A. Lehmann, Sr	627,511	June 27	2420	532	87	2141
Tire. Vehicle rubber	A. E. Friswell	633,444	Sept. 19	2350	554	88	2195
Tire. Vehicle rubber	C. H. Wheeler	633,539	Sept. 19	2507	589	88	2225
Tire. Vehicle-wheel	F. Latimer	633,652	Sept. 26	2745	639	88	2285
Tire. Vehicle-wheel	T. W. Morris	633,026	Sept. 12	1526	355	88	2023
Tire. Vehicle-wheel	J. M. Sweet	636,930	Nov. 14	1355	289	89	1220
Tire. Vehicle-wheel	J. M. Sweet	636,931	Nov. 14	1357	290	89	1221
Tire. Wheel	W. Corliss	627,223	June 20	1855	406	87	2012
Tire. Wheel	J. J. Farrar	624,314	May 2	685	150	87	831
Tire. Wheel	J. F. and L. Gommeret	629,745	July 25	3329	777	88	703
Tire. Wheel	B. F. Huntsberry and H. Laveen	622,923	Apr. 11	1334	307	87	272
Tire. Wheel	T. McKinnon and J. Pringle	634,954	Oct. 17	1782	423	89	386
Tire. Wheel	G. D. Wood	623,860	Apr. 25	3076	709	87	647
Tire wires or bands. Joint-fastener for	F. W. Kinney	640,000	Dec. 26	3348	766	89	2580
Tires. Adjustable clencher for pneumatic	J. O. Smith	632,028	Aug. 29	4256	957	88	1621
Tires and stoves. Heating device for wagon	C. Robinson	630,411	Aug. 8	1321	295	88	994
Tires. Apparatus for applying vehicle	B. F. Kenna	637,874	Nov. 28	3522	737, 738	89	1722

Alphabetical list of inventions—Continued.

Invention.	Name.	No.	Date.	Monthly volume. Spec.	Monthly volume. Dr'g.	Official Gazette. Vol.	Official Gazette. Page.
Tires. Apparatus for making hollow rubber	W. B. Hardy	627,230	June 20	1867	409	87	2014
Tires. Apparatus for repairing pneumatic	W. H. Beede and F. W. Wright	618,452	Jan. 31	3052	675	86	657
Tires. Apparatus for setting rubber	C. H. Wheeler and F. W. Kremer	633,541	Sept. 19	2511	589, 590	88	2225
Tires. Clamp for inserting tubes in pneumatic	J. H. Driscoll	618,073	Jan. 24	2326	519	86	506
Tires. Coin-controlled air-pump for bicycle-	C. J. Law	617,811	Jan. 17	1827	408	86	395
Tires, &c. Coin-controlled pump for inflating bicycle-	H. B. Farrand	636,782	Nov. 14	1068	228	89	1164
Tires. Composition for closing punctures in pneumatic	A. Lavocat	618,694	Jan. 31	3489	------	86	741
Tires. Composition of matter for closing punctures in pneumatic	C. F. Burr and J. S. Hendrickson	633,638	Sept. 26	2726	------	88	2281
Tires. Composition of matter for repairing	M. B. Grout	632,110	Aug. 29	4418	------	88	1653
Tires. Device for inflating pneumatic	W. Loebinger	618,697	Jan. 31	3493	780	86	742
Tires. Device for inserting plugs into pneumatic	G. F. Glidden	636,517	Nov. 7	500	111	89	1022
Tires. Device for mending pneumatic	E. Isbills	639,986	Dec. 26	3326	762	89	2575
Tires. Device for mending rubber	C. M. Hannis	638,389	Dec. 5	390	82	89	1940
Tires. Device for sealing punctures in pneumatic	W. S. Weatherwax	636,369	Nov. 7	239	53	89	969
Tires, &c. Elastic filling material for cycle-	J. Deborde	617,230	Jan. 3	699	163	86	137
Tires. Inner tube for pneumatic	J. H. Driscoll	618,072	Jan. 24	2325	518	86	506
Tires. Machine for manufacturing inflatable	W. and L. H. Swain	639,949	Dec. 26	3249	745	89	2559
Tires. Machine for repairing pneumatic	F. W. Maxson	617,033	Jan. 3	328	78	86	65
Tires. Machine for vulcanizing bicycle-	F. R. Chamberlain	620,695	Mar. 7	290	58	86	1558
Tires. Making	J. C. Anderson	637,692	Nov. 21	3184	------	89	1633
Tires. Making puncture-closing air-tubes for pneumatic	U. P. Smith	637,171	Nov. 14	1824	391	89	1311
Tires. Manufacturing cellular	W. F. Beasley	634,866	Oct. 17	1646	387	89	360
Tires. Means for joining ends of inner tubes of pneumatic	F. R. Chamberlain	623,074	Apr. 11	1589	366	87	324
Tires. Means for restoring air-pressure in pneumatic	J. F. Brady	627,972	July 4	25	5	88	8
Tires. Mechanical fastening for pneumatic	G. A. Burwell	619,385	Feb. 14	1095	247	86	1043
Tires of cycles, &c. Inflating device for	F. A. Abeleven	633,408	Sept. 19	2297	540	88	2185
Tires on carriage-wheels. Device for putting rubber	C. H. Prescott	616,967	Jan. 3	191	44	86	38
Tires. Protecting-sheath for pneumatic	J. E. Kershaw	636,435	Nov. 7	348	79	89	991
Tires. Pump for inflating pneumatic	N. R. Wickersham and H. A. Jamison.	624,417	May 2	860	193, 194	87	866
Tires. Puncture-closing air-tube for pneumatic	U. P. Smith	637,172	Nov. 14	1827	391	89	1311
Tires. Repair-patch for pneumatic	C. F. Lancaster	639,064	Dec. 12	1602	368	89	2198
Tires. Rubber repairing compound for pneumatic	J. Ostberg	637,018	Nov. 14	1526	------	89	1255
Tires to vehicle-wheels. Means for securing	J. H. Glew	629,677	July 25	3204	746, 747	88	679
Tires to wheel-rims. Means for securing pneumatic	A. T. Collier	637,087	Nov. 14	1648	357	89	1278
Tires. Tool for inserting valve-stems in pneumatic	A. Whisler	626,582	June 6	653	151	87	1741
Tires. Tool for removing and replacing covers of pneumatic	T. Bennett	620,836	Mar. 7	552	118	86	1610
Tires. Tool for removing and replacing covers of pneumatic	T. Bennett	620,837	Mar. 7	554	118	86	1610
Tires. Unpuncturable armor for pneumatic	L. Liais	636,536	Nov. 7	542	119	89	1030
Tires upon vehicle-wheels. Device for use in securing elastic	W. Holmes	625,769	May 30	3295	747	87	1420
Tires upon wheels and repairing same. Apparatus for making	J. C. Anderson	637,690	Nov. 21	3181	659	89	1633
Tires. Valve for bicycle-	T. Harrison	629,561	July 25	2995	700	88	638
Tires. Valve for endless tubing for	J. B. Forsyth	622,888	Apr. 11	1279	295	87	262
Tires. Valve for inflating pneumatic	A. O. Warner	628,617	July 11	1242	289	88	260
Tires, &c. Valve for pneumatic	O. J. Brown	637,919	Nov. 28	3603	755	89	1739
Tires. Valve for pneumatic	R. Reid	631,879	Aug. 29	3988	892	88	1569
Toast-holder	J. C. Kirby	639,740	Dec. 26	2877	662	89	2486
Toaster	J. I. Sloan	636,297	Nov. 7	125	27	89	947
Toaster	G. C. Updegraff and C. C. Stewart	638,946	Dec. 12	1404	321	89	2160
Toaster, broiler, &c	F. J. Keller	617,487	Jan. 10	1194	272	86	252
Toasting and broiling apparatus	A. Lurie and L. Biloon	624,356	May 2	751	169	87	843
Tobacco-booker	J. N. Wambold	622,300	Apr. 4	187	40, 41	87	35
Tobacco-curing apparatus	A. W. and W. A. Nance	637,348	Nov. 21	2182	470	89	1396
Tobacco-cutter	J. M. Titus	631,449	Aug. 22	3192	725	88	1403
Tobacco-cutter	J. Van der Plaat	622,905	Apr. 11	1303	300	87	266
Tobacco cutter. Plug-	W. W. Holliday	637,870	Nov. 28	3518	736	89	1721
Tobacco-cutting machine	H. Levy and M. Himoff	635,263	Oct. 17	2362	551, 552	89	499
Tobacco-distributing device	A. Grouvelle and E. Belot	629,960	Aug. 1	438	94	88	809
Tobacco-granulating machine	N. P. Perkins	635,076	Oct. 17	2026	479	89	437
Tobacco-granulating machine	A. Picken	634,476	Oct. 10	952	226, 227	89	208
Tobacco-hanging device	O. C. Mote	629,267	July 18	2437	564	88	509
Tobacco-leaf-stemming machine	A. R. Allison	622,587	Apr. 4	727	168, 169	87	138
Tobacco-leaf-stemming machine	A. R. Allison	624,440	May 9	906	204	87	899
Tobacco-leaf-stemming machine	A. R. Allison and C. E. Buek	622,586	Apr. 4	725	168	87	138
Tobacco-leaf-stemming machines. Automatic feeder for	C. E. Buek	624,450	May 9	924	207	87	902
Tobacco. Machine for manufacturing lump or plug	J. H. Kester	630,238	Aug. 1	938	204, 205, 206	88	907
Tobacco-pipe	W. C. Cunningham	628,395	July 4	834	194	88	159
Tobacco-pipe	J. T. Davey	634,806	Oct. 10	1525	358	89	320
Tobacco-pipe	R. K. Hall	632,565	Sept. 5	657	152	88	1836
Tobacco-pipe	C. Kurth and A. Masters	638,130	Nov. 28	4021	------	89	1819
Tobacco-pipe	J. Mitchell	617,036	Jan. 3	336	79	86	66
Tobacco-pipe	R. B. Morse	631,318	Aug. 22	2962	669	88	1357
Tobacco-pipe	F. A. Schossow	636,293	Nov. 7	120	26	89	946
Tobacco-pipe	F. L. Shunk	626,570	June 6	632	146	87	1737
Tobacco pipe	A. S. Speirs	638,771	Dec. 12	1102	247	89	2102
Tobacco pipe	B. J. Tebbens	637,679	Nov. 21	3162	656	89	1629
Tobacco pipe	J. Tobin	626,112	May 30	4015	915	87	1553
Tobacco-pipe	A. I Worthington and J. E. Williams	629,535	July 25	2958	689	88	632
Tobacco-pipe and whistle. Combined	J. and W. Argyle	633,411	Sept. 19	2302	541	88	2186
Tobacco-pipe cleaner	J. Craig, Jr	632,445	Sept. 5	427	94	88	1790
Tobacco-pipe holder	D. M. Somers	627,068	June 13	1582	346	87	1938

Alphabetical list of inventions—Continued.

Invention.	Name.	No.	Date.	Monthly volume.		Official Gazette.	
				Spec.	Dr'g.	Vol.	Page.
Tobacco-pipes. Nicotin-extractor and smoke-cooler for	P. Johnson	639,397	Dec. 19	2243	518	89	2341
Tobacco-plug shaper	J. H. Cheshire and W. B. Simcoe	638,559	Dec. 5	697	148	89	1999
Tobacco-pouch	W. N. Lockwood	619,588	Feb. 14	1427	328	86	1106
Tobacco-pouch	J. A. McHugh	626,714	June 13	911	206	87	1809
Tobacco-press	W. L. Davies	629,287	July 18	2467	574	88	514
Tobacco-press	A. V. Hysore	628,663	July 11	1368	319	88	284
Tobacco prier. Plug-	D. M. Bonar	638,087	Nov. 28	3907	822	89	1798
Tobacco-setter. Hand	C. G. Higgins	626,614	June 6	701	162	87	1750
Tobacco-shears	L. Schoonover	633,736	Sept. 26	2899	673	88	2316
Tobacco. Sizing-board for assorting	C. O. Shupert and W. Stroop	631,387	Aug. 22	3087	698	88	1382
Tobacco smoking-pipe	I. Nicholson	633,292	Sept. 19	2061	483	88	2139
Tobacco-stemming machine	A. R. Allison	622,588	Apr. 4	731	169	87	139
Tobacco-stemming machine	R. A. Coffee	622,995	Apr. 11	1455	336	87	297
Tobacco-stemming machine	G. M. Guerrant	630,344	Aug. 8	1163	255, 256	88	967
Tobacco. Style of manufactured	W. A. Fretwell	625,970	May 30	3677	835	87	1493
Tobacco-treating apparatus	C. E. Couty	628,394	July 4	833	194	88	159
Tobacco-treating apparatus	R. B. Dula	626,202	May 30	4196	953, 954	87	1589
Tobacco-treating apparatus	A. V. Hysore	629,368	July 25	2636	612	88	568
Tobacco-treating apparatus	A. V. Hysore	630,541	Aug. 8	1573	351	88	1042
Tobacco-treating machine	A. V. Hysore	620,139	Feb. 28	2470	561	86	1347
Tobacco-treating machine	J. K. Proctor	622,976	Apr. 11	1422	328	87	290
Tobacco-treating machine	J. K. Proctor. (Reissue)	11,748	June 13	1609	352	87	1944
Toe and heel clip	H. C. Yerby and R. A. Ludwick	629,945	Aug. 1	405	88	88	802
Toe-calk machine	S. P. Wormwood	631,362	Aug. 22	3031	687, 688	88	1371
Toe-calks. Apparatus for manufacturing	E. Childs and W. Sangster	624,298	May 2	650	142, 143	87	824
Toe-calks. Machine for making	J. H. Wilson	631,482	Aug. 22	3254	739, 740	88	1415
Toe-calks. Machine for making	J. H. Wilson	637,492	Nov. 21	2439	529, 530	89	1447
Toe-clip	D. Basch	639,883	Dec. 26	3123	718	89	2533
Toe-clip	P. E. Erickson	620,291	Feb. 28	2731	626	86	1397
Toe-clip	P. E. Erickson	626,861	June 13	1216	268	87	1867
Toe-stiffener for footwear	F. A. Finch	638,048	Nov. 28	3846	808	89	1785
Toe-weight	J. C. Gould	628,706	July 11	1442	335	88	300
Toggle. Sliding	M. A. Replogle	638,990	Dec. 12	1497	344	89	2178
Toilet-article stand	W. Vanderman	626,739	June 13	950	216	87	1817
Tongs	W. S. Casterlin	638,378	Dec. 5	371	77	89	1937
Tongs	A. D. Marsh	621,356	Mar. 21	1526	339	86	1823
Tongs. Barrel-	D. B. Le Van	630,366	Aug. 8	1204	264	88	976
Tongs. Pipe-	A. J. Sawin	638,814	Dec. 12	1178	264	89	2116
Tongs. Pneumatic	A. A. Landon	636,223	Oct. 31	4252	978	89	899
Tongs. Wire-	J. Conrad	621,327	Mar. 21	1478	328	86	1814
Tongue attachment. Slip-	D. Bardua	634,605	Oct. 10	1178	280	89	251
Tongue attachment. Wagon-	L. Spaulding	624,395	May 2	820	185	87	858
Tongue-cap and line-guard	A. S. Lockrem and O. Estwik	619,969	Feb. 21	2157	489	86	1272
Tongue-scraper	B. Buchmann	619,466	Feb. 14	1232	281	86	1069
Tongue-support	W. W. G. Hurt	629,721	July 25	3286	766	88	694
Tongue-support	E. Jarrell	618,271	Jan. 24	2702	599	86	575
Tongue-support	A. L. Lucas	618,278	Jan. 24	2710	602	86	577
Tongue support. Wagon-	J. C. Lambert	630,243	Aug. 1	950	208	88	910
Tongue support. Wagon-	J. B. Robertson	624,980	May 16	1894	425	87	1109
Tongue-supporting device	C. A. Baker	634,974	Oct. 17	1833	434	89	397
Tongue. Wagon-	S. M. Harris	617,808	Jan. 17	1823	407	86	394
Tongue. Wagon-	J. M. Hendricks	627,078	June 13	1593	349	87	1941
Tool	T. H. Ewing	635,307	Oct. 24	2455	571	89	534
Tool	H. Kelly	617,441	Jan. 10	1122	256	86	237
Tool	A. C. Lans	623,792	Apr. 25	2945	673	87	622
Tool	J. S. Scott	623,041	Apr. 11	1540	356	87	314
Tool	M. W. Tozer	637,185	Nov. 14	1854	399	89	1315
Tool-blanks. Making	E. Rogers	622,269	Apr. 4	122	27	87	26
Tool-blanks. Making	E. Rogers	623,384	Apr. 18	2197	503, 504	87	459
Tool-bracket	J. W. Conchar	624,908	May 16	1764	398	87	1084
Tool. Combination-	G. S. Adams	635,220	Oct. 17	2299	536	89	488
Tool. Combination-	W. D. Arnot	636,098	Oct. 31	4030	922	89	854
Tool. Combination-	W. W. Davis	617,462	Jan. 10	1152	263	86	242
Tool. Combination-	D. S. Geiser	631,113	Aug. 15	2591	585	88	1265
Tool. Combination-	J. A. Harris	637,253	Nov. 21	1992	427	89	1358
Tool. Combination-	W. A. Hauger	639,566	Dec. 19	2548	584	89	2402
Tool. Combination-	N. O. Henault	617,018	Jan. 3	297	66	86	60
Tool. Combination-	D. M. Humiston	626,381	June 6	324	74	87	1676
Tool. Combination-	B. Ibelli	634,753	Oct. 10	1445	340	89	303
Tool. Combination-	E. R. Jones	638,871	Dec. 12	1274	289	89	2133
Tool. Combination-	R. Newall	637,648	Nov. 21	3093	640	89	1615
Tool. Combination	G. W. Prinzing	638,759	Dec. 12	1083	242	89	2098
Tool. Combination-	P. R. Roberts	618,133	Jan. 24	2446	545, 546	86	529
Tool. Combination-	N. V. Watson and J. K. Cavitt	638,896	Dec. 12	1317	299	89	2143
Tool. Combination household	H. R. Ueckerman	618,258	Jan. 24	2680	593	86	571
Tool. Combination pocket-	W. H. Spence	618,241	Jan. 24	2651	586	86	566
Tool. Compound	W. N. Greer	631,336	Oct. 3	709	169	89	142
Tool-coupling	G. H. Hepfner	637,256	Nov. 21	1997	428	89	1359
Tool. Double machine-	I. Roederer	627,354	June 20	2106	465, 466	87	2063
Tool driver. Spiral-	L. M. Davis	621,401	Mar. 21	1592	352	86	1835
Tool driver. Spiral	H. M. Stevenson	624,122	May 2	330	68	87	763
Tool-feed mechanism	J. E. Maynadier	632,732	Sept. 12	1001	233	88	1919
Tool-handle	F. Ducharme	628,927	July 18	1841	428	88	396
Tool-handle	S. Maas	626,867	June 13	1227	271	87	1869
Tool-handle	W. Robertson	639,773	Dec. 26	2941	676	89	2498
Tool-handle	J. Sullivan	637,045	Nov. 14	1567	338	89	1263
Tool-handle	J. Tvelt and O. Oversen	617,206	Jan. 3	658	153	86	128

Alphabetical list of inventions—Continued.

Invention.	Name.	No.	Date.	Monthly volume.		Official Gazette.	
				Spec.	Dr'g.	Vol.	Page.
Tool-handle and means for securing same	P. Jaeger	621,570	Mar. 21	1908	427	86	1895
Tool-handle and tool	A. C. Lantz	631,427	Aug. 22	3161	717	88	1396
Tool-handle fastening	W. L. Marble	623,169	Apr. 18	1812	415	87	381
Tool-handle-fastening device	A. Walker	633,928	Sept. 26	3213	749	88	2379
Tool-heads. Shifting device for revolving	F. Lucke	626,208	May 30	4204	956	87	1591
Tool-holder	J. Armstrong	636,741	Nov. 14	987	210	89	1148
Tool-holder	F. H. Cathcart	628,756	July 11	1528	353	88	319
Tool-holder	F. A. Errington	632,810	Sept. 12	1148	264	88	1950
Tool-holder	W. C. Force	630,876	Aug. 15	2144	487	88	1178
Tool-holder	W. H. C. Harrison	637,735	Nov. 21	3250	677	89	1647
Tool-holder	E. Hughes	617,573	Jan. 10	1359	307	86	284
Tool-holder	F. B. Kendrick	633,852	Sept. 26	3093	718	88	2355
Tool-holder	F. P. Kuhn	618,796	Jan. 31	3661	819	86	776
Tool-holder	J. M. Normand and D. B. Hyde	639,428	Dec. 19	2296	530	89	2351
Tool-holder	W. H. Westbrook	636,597	Nov. 7	646	142	89	1053
Tool-holder. Expanding	W. D. Clugston	627,098	June 20	1642	359	87	1970
Tool-holder for machine-tools. Double	H. M. Brown	628,752	July 11	1522	352	88	318
Tool-holder. Multiple	W. T. Jones and J. Eaton-Shore	631,893	Aug. 29	4006	896	88	1572
Tool-holding device	E. M. Smith	633,620	Sept. 26	2697	628	88	2275
Tool-motor	C. B. Albree	638,489	Dec. 5	580	120	89	1977
Tool-motor	C. B. Albree	638,490	Dec. 5	583	120	89	1978
Tool-shank connection	G. G. Griswold	631,041	Aug. 15	2462	557	88	1241
Tool-stock	W. G. Kleinfelder	632,312	Sept. 5	194	44	88	1745
Tools to their handles. Means for securing	J. Hofbauer	629,128	July 18	2207	512	88	467
Tooth and plate. Artificial	G. H. Modemann	626,287	June 6	123	32	87	1637
Tooth. Artificial	J. S. Campbell	633,071	Sept. 12	1600	372	88	2038
Tooth. Artificial	L. F. Dunn	627,720	June 27	2814	617	87	2219
Tooth. Artificial	F. Ernst	633,128	Sept. 19	1751	413	88	2077
Tooth. Artificial	H. D. Justi	638,019	Nov. 28	3801	799	89	1777
Tooth. Artificial	H. J. Miller	628,345	July 4	750	173	88	144
Tooth. Artificial	J. Neil, Jr	631,429	Aug. 22	3163	718	88	1397
Tooth-band. Adjustable	M. A. Knapp	632,945	Sept. 12	1395	322	88	1996
Tooth-clamp	J. W. Ivory	634,731	Oct. 10	1410	332	89	298
Tooth-crown	W. H. Dwight	622,670	Apr. 11	896	205	87	190
Tooth-crown	L. S. Seeley	636,568	Nov. 7	602	132	89	1044
Tooth-crown	C. J. Underwood	626,738	June 13	949	216	87	1816
Tooth crown and backing. Artificial	C. Whitney	623,751	Apr. 25	2826	648	87	599
Tooth-crown holder	W. O. Allen	624,722	May 9	1412	316	87	997
Tooth-crown. Porcelain	J. R. Osborne	636,284	Nov. 7	108	24	89	944
Tooth-crowns. Apparatus for casting split dies for artificial	J. H. Slinkman	619,847	Feb. 21	1948	442	86	1234
Tooth-crowns. Mold for and method of making	C. S. Payne	622,068	Mar. 28	2837	639, 640	86	2092
Tooth-crowns to roots. Means for securing	H. F. Hamilton	635,773	Oct. 31	3362	777	89	723
Toothpick-making machine	E. M. Lamb and E. Bales	634,689	Oct. 10	1324	313	89	281
Toothpick polishing and rounding machine	W. H. Dyer	635,756	Oct. 31	3336	770, 771	89	719
Tooth-powder box	I. Hawley	635,135	Oct. 17	2157	503	89	460
Tooth-regulating device	E. H. Angle	626,476	June 6	479	111	87	1706
Tooth-regulator	M. A. Knapp	618,105	Jan. 24	238	532	86	517
Top. Aerial	A. L. Platt	634,996	Oct. 17	1869	444	89	405
Top and mechanism for spinning same	J. L. Kornick	635,020	Oct. 17	1903	453	89	411
Top. Chameleon	C. Abrell	617,069	Jan. 3	405	99	86	79
Top. Continuous-spinning	J. Wallace	629,055	July 18	2064	481	88	439
Top roll	L. W. Campbell	628,521	July 11	1080	252	88	228
Top roll	L. W. Campbell	628,522	July 11	1081	252	88	228
Top roll	L. W. Campbell	639,211	Dec. 19	1882	434	89	2266
Top. Spinning	G. F. Aishton	628,644	July 11	1335	311	88	278
Top. Spinning	J. Kjellén	620,151	Feb. 28	2485	565	86	1350
Top. Spinning	G. W. MacKenzie	629,382	July 25	2657	617	88	573
Top. Whistling	M. L. Powers	625,121	May 16	2142	486	87	1154
Torch	J. Graham	631,425	Aug. 22	3159	717	88	1396
Torch. Automatic-lighting	W. M. Hökerstedt and A. V. Westerlund.	633,198	Sept. 19	1876	442	88	2103
Torch-burner	W. A. Nicholas and G. Burkhardt	622,525	Apr. 4	621	145	87	118
Torch. Cymbal campaign	G. A. Beidler	629,312	July 18	2526	587	88	526
Torch. Electrician's or plumber's	H. C. Roberts	626,723	June 13	925	210	87	1812
Torch. Signaling	C. E. Masten	626,241	June 6	44	10	87	1623
Torpedo	W. M. Gallagher	628,308	July 4	680	159	88	131
Torpedo	T. W. Just	638,463	Dec. 5	536	110	89	1969
Torpedo	A. Van Bibber	627,312	June 20	2029	445	87	2048
Torpedo attachment. Boat	J. P. B. Sadtler	625,851	May 30	3455	784	87	1451
Torpedo. Automobile	T. E. Barrow	632,089	Aug. 29	4367	982	88	1642
Torpedo-controlling device	W. D. Litchfield	619,023	Feb. 7	431	90,91	86	894
Torpedo. Exploding	J. Scalona	633,615	Sept. 26	2689	626	88	2273
Torpedo-launching apparatus	S. Drzewiecki	621,640	Mar. 21	2027	452, 453, 454	86	1919
Torpedo-launching apparatus	E. Kaselowsky	631,308	Aug. 22	2946	666	88	1353
Torpedo launching or discharging apparatus	H. L. J. C. Turc	626,945	June 13	1367	300, 301	87	1897
Torpedo-net	W. P. Bullivant	620,734	Mar. 7	368	75	86	1573
Torpedo-placer	F. E. Bennett	637,442	Nov. 21	2348	507	89	1430
Torpedo. Railway	J. C. Roche	630,931	Aug. 15	2243	511	88	1199
Torpedo-shell for high explosives	L. Gathmann	639,227	Dec. 19	1915	440	89	2273
Torpedo-starting device	L. Obry	621,364	Mar. 21	1540	341, 342	86	1826
Torpedo tramway. Submerged	C. T. Finlayson	624,472	May 9	968	215	87	910
Tote-box	W. G. Avery	623,964	May 2	5	1	87	703
Towel-holder	O. S. Fitzsimons	619,948	Feb. 21	2121	480	86	1266
Towel-holder	W. R. Gorrell	627,077	June 13	1595	349	87	1941
Towel-holder	R. M. Pancoast	626,089	May 30	3950	898	87	1544
Towel-holding device	J. Egbert	633,237	Sept. 19	1965	461	88	2121
Towel-rack	H. C. McDonald	629,458	July 25	2797	650	88	601
Tower. Telescopic	H. A. Van der Cruyssen	639,189	Dec. 12	1840	423, 424	89	2244
Towing-indicator	C. W. Shaw	636,699	Nov. 7	847	189	89	1094

Alphabetical list of inventions—Continued.

Invention.	Name.	No.	Date.	Monthly volume. Spec.	Monthly volume. Dr'g.	Official Gazette. Vol.	Official Gazette. Page.
Towing-machine	M. L. Deering	619,074	Feb. 7	523	110 111	86	912
Towing-machine	J. A. Mumford	617,175	Jan. 3	602	141	86	118
Towing machine. Vessel-	M. L. Deering	619,073	Feb. 7	520	110	86	911
Towing system. Canal-boat	L. P. Perew	633,294	Sept. 19	2063	483 484	88	2140
Toy	N. E. Beaudoin	625,239	May 16	2338	533	87	1192
Toy	L. Biddle	636,106	Oct. 31	4042	925	89	857
Toy	W. Bowman	630,850	Aug. 15	2100	476	88	1170
Toy	J. Q. Brown	629,653	July 25	3161	737	88	670
Toy	R. P. Burke and J. R. Donigan	628,519	July 11	1077	251	88	227
Toy	J. J. Deal	636,767	Nov. 14	1031	220	89	1157
Toy	S. D. Franklin	621,055	Mar. 14	986	214	86	1703
Toy	F. C. Freeman	617,089	Jan. 3	437	105	86	85
Toy	J. Gardam	620,904	Mar. 14	685	150	86	1648
Toy	L. J. Genett	620,908	Mar. 14	693	152	86	1649
Toy	E. Gier	623,210	Apr. 18	1879	430	87	394
Toy	G. B. Hughes	621,677	Mar. 21	2110	470	86	1936
Toy	J. W. Jack	625,680	May 23	3110	707	87	1367
Toy	H. T. Kingsbury	619,759	Feb. 21	1768	406	86	1198
Toy	A. Kissinger and W. C. Matthias	619,762	Feb. 21	1773	407	86	1199
Toy	J. R. McNamara	628,670	July 11	1380	323	88	286
Toy	A. N. Norton	624,962	May 16	1863	418	87	1102
Toy	J. G. Roberts	624,251	May 2	567	121	87	807
Toy	N. H. Sprague	623,635	Apr. 25	2643	603 604	87	563
Toy	E. P. Waterhouse	617,665	Jan. 10	1523	346	86	316
Toy	W. W. Watt	617,209	Jan. 3	662	154	86	129
Toy	G. W. Wright	617,213	Jan. 3	666	155	86	130
Toy and advertising apparatus	F. W. Edwardy	633,821	Sept. 26	3031	704	88	2343
Toy and game. Combined	W. R. Park	628,029	July 4	125	26	88	26
Toy bank	H. R. Wilken	618,529	Jan. 31	3194	706	86	684
Toy bank. Registering	P. Howell	637,737	Nov. 21	3254	678	89	1648
Toy battle-ship	A. G. Jacobs	623,160	Apr. 18	1798	412	87	378
Toy bell	I. A. Branson	631,926	Aug. 29	4065	912	88	1583
Toy bowling-alley	T. Kochka	621,967	Mar. 28	2676	602	86	2059
Toy cannon	E. J. Bowen	632,005	Aug. 29	4214	948	88	1613
Toy cannon	B. F. Brenner	636,483	Nov. 7	433	96	89	1008
Toy cannon	A. G. Jacobs	623,159	Apr. 18	1797	412	87	378
Toy. Child's	J. D. Fadden	628,654	July 11	1353	315	88	281
Toy fireworks	A. J. Lutz	638,416	Dec. 5	444	92	89	1950
Toy flying-machine or kite	C. Zimmerman	634,386	Oct. 3	787	188 189	89	156
Toy horse	F. Ritter	621,945	Mar. 28	2620	591	86	2048
Toy house	M. E. Campbell	635,994	Oct. 31	3805	876	89	811
Toy house and elevator	W. B. Wood	618,810	Jan. 31	3689	826	86	781
Toy marble-projector	J. Heyer	634,980	Oct. 17	1844	437	89	400
Toy. Mechanical	S. Anson	638,793	Dec. 12	1140	254	89	2109
Toy. Mechanical	S. E. Edwards	631,626	Aug. 22	3525	794	88	1469
Toy. Mechanical	H. A. Schoknecht and J. C. Elgin	622,545	Apr. 4	653	153	87	124
Toy. Mechanical	R. Teichmann	624,403	May 2	838	189	87	862
Toy. Mechanical	J. Wishart	621,885	Mar. 28	2510	561	86	2029
Toy money-bank	A. Braun and E. McPherson	632,040	Aug. 29	4278	961	88	1625
Toy money-box	C. A. Bailey	630,795	Aug. 8	1996	452	88	1125
Toy. Musical	W. A. Gay	621,061	Mar. 14	992	216	86	1705
Toy or game	T. Brighton	622,663	Apr. 11	883	202	87	187
Toy parachute	J. T. Davey	633,082	Sept. 12	1620	376	88	2042
Toy phonograph	J. Schoenner	630,521	Aug. 8	1533	343	88	1034
Toy picture-book	S. Brentano	622,111	Mar. 28	2921	662 663	86	2108
Toy pistol	L. Buehler	630,775	Aug. 8	1963	444	88	1119
Toy pistol	J. A. Hadley and W. J. Evans	638,964	Dec. 12	1432	328	89	2166
Toy pistol	H. W. Rightmyer	624,543	May 9	1108	250	87	937
Toy pistol	W. Sanders	629,820	Aug. 1	110	27	88	742
Toy pistol	D. Shields	635,062	Oct. 17	1988	470	89	428
Toy pistol	W. S. Vankirk	620,384	Feb. 28	2892	662	86	1427
Toy pistol	E. H. Wagner	631,945	Aug. 29	4094	918	88	1589
Toy pistol and game apparatus	H. D. Bailey and H. B. Budgett	621,440	Mar. 21	1660	367 368	86	1848
Toy puzzle	P. Gasparine	619,951	Feb. 21	2125	481	86	1267
Toy rocking-horse	F. Wilfert	618,155	Jan. 24	2495	554	86	538
Toy-safe permutation-lock	C. Rossignol	625,203	May 16	2267	516	87	1178
Toy savings-bank	J. E. Ferland	627,727	June 27	2827	619	87	2221
Toy torpedo	Z. Valdez	633,671	Sept. 26	2777	645	88	2292
Toy. Trundle	J. O. Hebert	638,241	Dec. 5	66	16	89	1879
Toy. Wheeled	C. A. Bailey	630,794	Aug 8	1995	451	88	1125
Trace-carrier	A. R. Daymon	626,982	June 13	1430	315	87	1910
Trace-carrier	J. B. Gathright	628,529	July 11	1097	255	88	231
Trace-carrier	J. T. Holland	636,802	Nov. 14	1098	236	89	1170
Trace-clasp	I. Whealdon	628,055	July 4	172	37	88	35
Trace connection	J. J. Creedon	617,499	Jan. 10	1209	275	86	255
Trace-fastener	H. M. Benshoff and A. J. Gairing	639,136	Dec. 12	1731	400	89	2223
Trace-fastening	J. Mealey	621,838	Mar. 28	2415	540	86	2010
Trace-holder	G. A. Hess	619,176	Feb. 7	725	157	86	953
Trace-holder	J. F. Wynkoop	632,614	Sept. 5	728	168	88	1851
Trace-hook	W. C. Hall	624,647	May 9	1280	286	87	970
Trace-support	J. C. Stratton	621,868	Mar. 28	2475	552	86	2023
Trace-supporter	H. W. Kimm	633,649	Sept. 26	2740	638	88	2284
Tracing instrument	E. F. Chase	637,923	Nov. 28	3607	756	89	1740
Track and wheel brake. Combined	W. Timmis	630,950	Aug. 15	2280	519	88	1205
Track-cleaner	M. B. Eaton	625,438	May 23	2706	616	87	1287
Track clearing and drying device	J. Dixon	632,782	Sept. 12	1094	253	88	1939
Track-crossing protector	M. D. Meyer	638,876	Dec. 12	1282	291	89	2135
Track-fastening	A. L. Anderson	628,440	July 11	921	215	88	197
Track-fastening device	F. La Forest	617,031	Jan. 3	327	77	86	64
Track-jack	A. Kintner and D. Bonham	637,801	Nov. 28	3368	706	89	1690
Track-laying machine	J. Burke	630,324	Aug. 8	1107	242	88	955

Alphabetical list of inventions—Continued.

Invention.	Name.	No.	Date.	Monthly volume. Spec.	Monthly volume. Dr'g.	Official Gazette. Vol.	Official Gazette. Page.
Track-raiser	A. A. Noble	634,699	Oct. 10	1342	317	89	284
Track-sanding apparatus	L. A. Hoerr	629,857	Aug. 1	189	43, 44	88	757
Track-sanding apparatus. Pneumatic	J. H. Hanlon	633,194	Sept. 19	1869	440, 441	88	2101
Track-sanding device	W. H. Kilbourn	620,040	Feb. 21	2285	518	86	1297
Track-sanding device	W. H. Kilbourn	624,820	May 9	1608	365	87	1036
Track-sanding device	G. W. Mudd	630,550	Aug. 8	1585	354	88	1045
Track-sanding device. Car-	A. L. Sprague	639,625	Dec. 19	2644	607	89	2421
Track-sanding devices. Sand-box for	F. W. Tilden	624,131	May 2	342	70	87	765
Track scraping, sweeping, and sanding machine	J. H. Robertson	626,039	May 30	3862	875	87	1527
Track-section. Adjustable and portable	G. E. Surgi	620,992	Mar. 14	862	188	86	1681
Track-sight	O. S. Kepler	621,254	Mar. 14	1332	296	86	1773
Track-suspending device	W. Louden	617,491	Jan. 10	1198	273	86	253
Track. Vehicle-	S. B. Dickinson	619,678	Feb. 14	1602	366	86	1140
Traction apparatus. Overhead	C. A. Mary	630,250	Aug. 1	960	210, 211	88	912
Traction-engine	G. Cashmore	620,735	Mar. 7	369	75	86	1573
Traction-engine	J. M. Chappel	626,666	June 13	808	184, 185	87	1790
Traction-engine	J. M. Hamilton	620,030	Feb. 21	2266	513, 514	86	1293
Traction-engine	E. Huber	627,190	June 20	1797	394	87	2001
Traction-engine	G. W. Morris	626,077	May 30	3928	891, 892	87	1539
Traction-engine	O. Ringheim	631,383	Aug. 22	3077	696	88	1380
Traction-engine	I. Sedgwick	621,158	Mar. 14	1167	254	86	1740
Traction-engine	A. Stutzman	622,729	Apr. 11	985	229	87	206
Traction-increasing device	S. Woodall	639,483	Dec. 19	2400	552	89	2372
Traction-wheel	H. C. Clay	633,282	Sept. 19	2044	480	88	2136
Traction-wheel	C. Groseclose	635,246	Oct. 17	2337	545	89	494
Traction-wheel	W. McKone	639,758	Dec. 26	2909	671	89	2492
Traction-wheel	C. Powers	618,803	Jan. 31	3680	824	86	780
Train-despatcher's indicator	R. F. Adams	623,392	Apr. 18	2209	507	87	461
Train-order-blank holder. Automatic	N. H. Pratt	628,991	July 18	1951	454	88	417
Train-order-delivering mechanism	L. Wagner	628,504	July 11	1029	239	88	218
Train-order holder and signal	A. McKanna	619,778	Feb. 21	1818	416	86	1209
Train-order-holding device	Z. Merideth	629,455	July 25	2794	649	88	600
Train-order signal	H. De Wallace	617,232	Jan. 3	702	163, 164, 165	86	137
Train-pipe connection. Metallic	W. E. Downing	628,305	July 4	670	157	88	129
Train-pipe coupling. Automatic	J. E. Forsyth	618,081	Jan. 24	2341	523, 524	86	509
Train-pipe coupling. Automatic	J. E. Forsyth	619,401	Feb. 14	1119	253	86	1048
Train-pipe hose-coupling	R. S. Brown	621,764	Mar. 21	2275	513	86	1968
Train-pipes. Flexible metallic connection for	C. B. Weaver	638,532	Dec. 5	655	137	89	1991
Train-pipes. Metallic pipe connection for	C. W. Vaughan	620,518	Feb. 28	3101	710	86	1467
Train traction system	F. E. Case	618,054	Jan. 24	2274	507	86	497
Trammel-stick connection	H. K. Harbaugh	618,345	Jan. 24	2827	628	86	599
Tramway	E. W. Parsons	628,283	July 4	622	147	88	120
Tramway switch mechanism. Overhead-	J. H. Cook	624,302	May 2	663	145	87	827
Transfer device	N. S. Greet	622,042	Mar. 28	2802	631	86	2085
Transfer-press	E. Hett	637,567	Nov. 21	2725	567, 568, 569	89	1522
Transferring device	E. F. Hamilton and C. Gess	625,259	May 16	2381	540	87	1199
Transferring or turning-over machine	E. Hett	637,586	Nov. 21	2879	595, 596	89	1560
Transformer. Constant-current	R. Fleming	637,773	Nov. 28	3323	695, 696	89	1680
Transformer or synchronous motor. Rotary	B. G. Lamme	626,172	May 30	4140	942	87	1578
Transformer. Regulating-	E. W. Cowan and A. Still	620,283	Feb. 28	2714	623	86	1394
Transformer regulation. Rotary-	R. D. Mershon	620,343	Feb. 28	2825	644	86	1414
Transformers. Means for regulating constant-potential	W. A. Layman and F. Schwedtmann.	635,786	Oct. 31	3392	783, 784	89	730
Transit. Folding mine-	J. A. Birsfield	627,638	June 27	2677	587	87	2192
Transmission device	F. Bellet	621,017	Mar. 14	911	198	86	1690
Transom adjuster and lock	N. Hoskins	622,363	Apr. 4	284	65, 66	87	54
Transom-lifter	W. T. Adams	626,213	June 6	1	1	87	1615
Transom-lifter	G. Bickelhaupt	639,139	Dec. 12	1735	401	89	2224
Transom-lifter	J. Siewert and M. Wisniewski	632,326	Sept. 5	217	51	88	1750
Transom opener or closer	C. A. Richards	635,597	Oct. 24	3029	695	89	644
Transom opener or closer	C. A. Richards	636,847	Nov. 14	1171	354	89	1186
Transpiration. Apparatus for producing and removing	S. Safran	630,565	Aug. 8	1611	360	88	1050
Transplanter	H. C. Benton	639,654	Dec. 19	2700	621	89	2433
Transplanter	W. L. Hawkins	621,302	Mar. 14	1424	314	86	1790
Transportation. Means for	J. C. Bonner	622,323	Apr. 4	223	50	87	43
Trap: *See* Animal-trap, Ant-trap, Fish-trap, Fish and animal trap, Fly-trap, Folding trap, Gopher-trap, Gopher or squirrel trap, Grease-trap, Gully-trap, Hog-trap, Insect-trap, Mouse-trap, Overflow-trap, Rat-trap, Sewer-trap, Sewer-gas trap, Sink-trap, Sink or basin trap, Steam-trap, Steam-separating trap, Target-trap, Thermostatic trap, Water-pipe trap.							
Trap	O. F. Baum	639,339	Dec. 19	2122	489	89	2317
Trap	W. T. Ebert	622,944	Apr. 11	1368	314	87	279
Trap	S. L. Long	621,833	Mar. 28	2407	537	86	2008
Trap	J. D. Olinger	639,606	Dec. 19	2608	599	89	2414

Alphabetical list of inventions—Continued.

Invention.	Name.	No.	Date.	Monthly volume. Spec.	Monthly volume. Dr'g.	Official Gazette. Vol.	Official Gazette. Page.
Trap	O. Thornley	617,617	Jan. 10	1435	327	86	298
Trap	C. M. Williams	621,396	Mar. 21	1586	351	86	1834
Trap and pump-regulator. Automatic	W. Foster	630,043	Aug. 1	599	131	88	842
Trap for catching rats, &c	H. Benseler	639,135	Dec. 12	1730	399	89	2223
Trap-hook	W. Gabrielson	639,553	Dec. 19	2528	580	89	2398
Trap-net	A. S. Chase	619,138	Feb. 7	652	140	86	939
Trapeze. Revolving	A. Stirk	638,033	Nov. 28	3827	805	89	1782
Traveling-bag, &c	J. F. Pritchard and H. H. Miller	622,263	Apr. 4	111	26	87	24
Traveling-case	H. M. Rosenblatt	624,981	May 16	1895	425	87	1109
Tray and portable tray-shelf. Convertible	L. Vaughan	626,641	June 6	758	174	87	1760
Tread	W. H. Brown	629,951	Aug. 1	417	90	88	804
Tread for stairs, &c	F. W. Huestis	638,666	Dec. 5	891	196	89	2039
Tread for wheels, stairs, steps, &c	H. B. Haigh	637,866	Nov. 28	3514	734	89	1720
Tread. Safety-	F. Wear	637,437	Nov. 21	2340	505	89	1429
Treadle mechanism	P. Diehl	630,194	Aug. 1	862	185	88	892
Tree. Artificial	A. Hummel	632,121	Aug. 29	4436	997	88	1657
Tree balling and transferring device	L. H. and H. S. Landis	625,041	May 16	1987	444	87	1126
Tree-clamp. Transplanting	J. A. Garrett	621,405	Mar. 21	1600	354	86	1837
Tree-felling device	E. Burke	638,553	Dec. 5	687	145	89	1997
Tree lifting and transporting device	D. F. Prevost	639,286	Dec. 19	2014	464, 465	89	2295
Tree or plant protector	W. L. Morris	633,528	Sept. 19	2486	585	88	2221
Tree or vine puller	E. P. Boden. (Reissue)	11,747	June 13	1608	351	87	1944
Tree-protector	J. Schlaefer	635,397	Oct. 24	2643	610	89	571
Tree-protector. Expansive	W. H. Coon	639,021	Dec. 12	1543	354	89	2187
Tree-smoking apparatus	L. D. Elliott	620,842	Mar. 7	572	124	86	1614
Tree-transplanting apparatus	D. Ralston	636,842	Nov. 14	1163	251, 252	89	1184
Treeing-machine	A. G. Fitz	626,828	June 13	1123	251	87	1849
Trestle	A. Kerr	626,911	June 13	1316	290	87	1887
Trestle attachment	G. E. Palmer	623,175	Apr. 18	1820	417	87	383
Trestle. Extensible	E. C. Bishop	637,847	Nov. 28	3462	723	89	1709
Trestle. Mechanic's	H. S. Dotts	617,463	Jan. 10	1155	263, 264	86	243
Trial-frame and optometer therefor	H. H. Hempler	628,801	July 11	1616	373	88	337
Tricycle	H. J. Cordle	621,034	Mar. 14	955	208	86	1699
Tricycle	G. R. Paine	618,580	Jan. 31	3285	729	86	702
Tricycle	J. R. Rowlands	637,350	Nov. 21	2187	471, 472	89	1397
Tricycle	S. Vaughn	634,192	Oct. 3	382	98	89	79
Tricycle for invalids	J. C. Eames	627,639	June 27	2679	587	87	2193
Trigger. Hair-	G. H. Newell and C. Lindberg	620,796	Mar. 7	478	100	86	1595
Trigonometrical admeasurements. Instrument for facilitating	F. J. Bayldon and A. H. Armstrong	623,866	Apr. 25	3083	710	87	648
Trimmer: *See* Hedge-trimmer. Lawn-trimmer. Mechanical trimmer. Paper-trimmer. Pipe-trimmer. Sewing-machine trimmer. Shade-trimmer. Sod-trimmer. Sole-edge trimmer. Wick-trimmer.							
Trimming and channeling machine	F. J. Freese	622,460	Apr. 4	477	111, 112	87	88
Trimming-making apparatus	G. E. Spiecker	619,358	Feb. 14	1045	235	86	1034
Trimming-making machine	H. T. Loomis	629,451	July 25	2785	647, 648	88	598
Trip-jack	E. T. Trefethen	616,993	Jan. 3	242	56	86	48
Triple-cylinder engine	P. Brotherhood	618,775	Jan. 31	3621	809	86	768
Tripod	H. E. Austin	627,170	June 20	1765	386	87	1994
Tripod	C. J. W. Hayes	630,220	Aug. 1	905	199	88	901
Tripod	H. Heitmann	633,284	Sept. 19	2047	481	88	2136
Tripod	D. J. Roberts	632,064	Aug. 29	4327	972	88	1634
Tripod-head	C. J. W. Hayes	630,219	Aug. 1	903	199	88	900
Tripod-head	C. J. W. Hayes	630,221	Aug. 1	907	199	88	901
Tripod. Photographic	W. H. Lewis	629,379	July 25	2654	616	88	572
Tripod-stand	J. W. Bennetto	619,659	Feb. 14	1571	358	86	1134
Tripod-stand	S. C. Jones and W. Mayo	621,571	Mar. 21	1909	427	86	1895
Tripod-stand	S. C. Jones and W. Mayo	624,340	May 2	726	161	87	839
Tripping mechanism	W. L. Morris	639,081	Dec. 12	1635	378	89	2204
Trolley	B. F. Adair	639,880	Dec. 26	3118	717	89	2532
Trolley	G. W. Bolser	638,697	Dec. 12	976	218	89	2076
Trolley	D. J. Brown	618,534	Jan. 31	3202	708, 709	86	685
Trolley	R. E. Carroll	622,991	Apr. 11	1449	334	87	296
Trolley	E. Duty, Jr	624,914	May 16	1774	400	87	1086
Trolley	H. Hirschman	631,165	Aug. 15	2680	605	88	1282
Trolley	H. J. Humphrey	628,662	July 11	1367	319	88	284
Trolley	C. W. Larson	619,320	Feb. 14	989	223	86	1023
Trolley	S. T. Leaming, Jr	622,813	Apr. 11	1129	261	87	233
Trolley	F. H. Merrill and F. P. Woodsome	637,812	Nov. 28	3387	709	89	1694
Trolley	E. Penning-Dupuis	639,932	Dec. 26	3216	737	89	2553
Trolley	E. G. Solomon	636,299	Nov. 7	127	28	89	947
Trolley	C. L. Weyand	632,033	Aug. 29	4264	958	88	1622
Trolley	R. White	632,772	Sept. 12	1073	248	88	1935
Trolley	A. J. Young and C. L. Magune	621,399	Mar. 21	1590	352	86	1835
Trolley attachment. Electric-	H. Stuempfle and J. Delane	631,596	Aug. 22	3482	787	88	1461
Trolley-catcher	F. N. Kelsey	626,168	May 30	4133	941	87	1577
Trolley-catcher	R. I. Kroft	621,422	Mar. 21	1629	362	86	1842
Trolley-catcher	P. D. Milloy	632,272	Sept. 5	129	28	88	1733
Trolley-catcher	C. H. Ocumpaugh	619,213	Feb. 7	786	171	86	966
Trolley-catcher	O. W. Whitehead	621,984	Mar. 28	2709	611, 612	86	2065
Trolley catcher and retainer	W. B. King	619,316	Feb. 14	983	221	86	1022
Trolley connection for canal-boats	F. J. Shewring	618,911	Feb. 7	160	34, 35	86	837
Trolley. Continuous-contact	C. B. Lebcher	627,927	June 27	3186	698	87	2295
Trolley-controller	L. M. Halsey	625,554	May 23	2906	660	87	1327

Alphabetical list of inventions—Continued.

Invention.	Name.	No.	Date.	Monthly volume. Spec.	Monthly volume. Drg.	Official Gazette. Vol.	Official Gazette. Page.
Trolley device for kites	C. A. Lower	620,596	Mar. 7	80	16	86	1518
Trolley-ear	H. Geisenhöner	620,907	Mar. 14	692	152	86	1649
Trolley. Electric-railway	E. M. Bentley	619,927	Feb. 21	2084	473	86	1259
Trolley. Equalizing-	A. E. Brown	631,981	Aug. 29	4164	936	88	1602
Trolley-head	A. E. Hitch	625,263	May 16	2389	542	87	1200
Trolley or other wires. Splicer for	M. M. Wood	622,747	Apr. 11	1013	236	87	212
Trolley. Overhead	H. C. Loudermilch	630,780	Aug. 8	1971	446	88	1120
Trolley-pole	P. H. Gilbert	619,164	Feb. 7	706	151	86	949
Trolley-pole	S. G. Reynolds	628,610	July 11	1226	286	88	257
Trolley-pole	S. Vernoy	636,189	Oct. 31	4194	963	89	889
Trolley pole and wheel	F. Kramer	619,080	Feb. 7	535	112	86	915
Trolley-pole catcher	C. A. Davis and H. M. Wilson	631,361	Aug. 22	3030	687	88	1371
Trolley-pole retriever	D. E. Lesser	631,854	Aug. 29	3948	882	88	1561
Trolley ropes or poles. Water-guard for	T. Hawken	622,225	Apr. 4	49	12	87	13
Trolley-sleeter	J. B. Mock	618,577	Jan. 31	3281	728	86	701
Trolley-stand	H. W. Brooks	633,786	Sept. 26	2979	691	88	2332
Trolley-stand	D. Moyer	618,231	Jan. 24	2634	581	86	562
Trolley system. Overhead-	E. Frischmuth	627,495	June 27	2386	525	87	2135
Trolley track and lift mechanism	J. H. Cook	630,798	Aug. 8	2001	452, 453	88	1126
Trolley-wheel	S. W. Fletcher	622,214	Apr. 4	32	8	87	9
Trolley-wheel	H. R. Frisbie	630,210	Aug. 1	886	191	88	898
Trolley-wheel	J. Kalte	628,539	July 11	1110	259	88	234
Trolley-wheel	C. B. Lebcher	623,678	Apr. 25	2718	623	87	578
Trolley-wheel	J H. and G. H. Lester	635,262	Oct. 17	2361	551	89	499
Trolley-wheel	G E. Mittinger, Jr	640,009	Dec. 26	3359	769	89	2581
Trolley-wheel	J L. Osgood	638,470	Dec. 5	548	113	89	1972
Trolley-wheel	E M. Putnam and W. Sellers	632,849	Sept. 12	1220	279	88	1965
Trolley-wheel	E. R. Stilwell	632,380	Sept. 5	317	71	88	1769
Trolley-wheel and support	W. P. Holt	618,674	Jan. 31	3453	770	86	734
Trolley-wheel. Sheet-metal	G. E. Mittinger, Jr	620,479	Feb. 28	3040	695	86	1455
Trolley-wire cleaner	R. Dunning	638.047	Nov. 28	3844	808	89	1785
Trolley-wire switch	A. F. Humphrey	632,052	Aug. 29	4299	966	88	1629
Tropin ketone and making same	R. Willstätter	628,293	July 4	648		88	125
Trough: *See* Cattle-trough. Hog trough. Eaves-trough. Swine-trough. Feed-trough. Water-trough. Felly-trough. Watering-trough. Grain-steeping trough.							
Trousers	J. S. Fisher	620,435	Feb. 28	2972	681	86	1442
Trousers	M. Reinfeld	623,739	Apr. 25	2812	644	87	596
Trousers	L. S. Shauer	623,631	Apr. 25	2637	602	87	562
Trousers	L. L. Yates	630,639	Aug. 8	1748	392	88	1076
Trousers. Bicycle or golf	O. W. Schaum	625,521	May 23	2845	648	87	1315
Trousers-clasp	A. B. Herald	639,568	Dec. 19	2550	585	89	2402
Trousers-guard	L. Nottingham	633,889	Sept. 26	3152	732	88	2367
Trousers-guard	E. E. Ward	633,674	Sept. 26	2787	648	88	2294
Trousers-guard	J. G. Watson	628,193	July 4	436	104	88	88
Trousers-hanger	F. Skinner	617,130	Jan. 3	523	125	86	102
Trousers-hanger	F. B. Whitlock	632,077	Aug. 29	4349	978	88	1638
Trousers hook and bar	A. J. Shipley	623,434	Apr. 18	2281	522	87	476
Trousers-leg guard	J. H. Gifford	623,599	Apr. 25	2588	592	87	554
Trousers-rack	H. E. Boucher	620,638	Mar. 7	169	36	86	1535
Trousers support or stretcher	A. L. Ross	638,068	Nov. 28	3872	815	89	1791
Trousers-waistband	M. Wald	622,571	Apr. 4	694	162	87	132
Trowel-handle	W. D. Pickens	630,924	Aug. 15	2232	509	88	1196
Trowel. Plastering-	P. S. Miller	636,345	Nov. 7	192	42	89	959
Truck	C. A. Buck	635,037	Oct. 17	1938	460	89	418
Truck	A. L. Church	623,463	Apr. 18	2327	533, 534	87	486
Truck	J. H. Hartzell	637,867	Nov. 28	3515	734	89	1720
Truck	J. M. Hooper, Sr., and J. R. Daniels	623,669	Apr. 25	2702	619	87	575
Truck	W. Richman	637,284	Nov. 21	2042	438	89	1368
Truck	G. W. Straight	637,044	Nov. 14	1566	337	89	1263
Truck	E. A. Watts and J. E. Hitch	618,629	Jan. 31	3368	750	86	717
Truck. Adjustable traction-motor	M. G. Hubbard, Jr	620,136	Feb. 28	2466	559, 560	86	1346
Truck and bail. Tramway	W. C. Davis	628,527	July 11	1093	254, 255	88	230
Truck and carrier. Combined	E. A. Barns	639,338	Dec. 19	2121	488	89	2316
Truck attachment. Car-	E. G. Nicewaner	633.727	Sept. 26	2883	670	88	2313
Truck. Barrel-	T. T. Dickerson	623,995	May 2	77	17	87	717
Truck. Barrel-	M. J. Knapp	620,331	Feb. 28	2807	641	86	1411
Truck bed or body	E. F. C. Danzer	623,356	Apr. 18	2149	494	87	448
Truck-bolster	E. S. Marshall	622,055	Mar. 28	2820	636	86	2088
Truck-bolster	F. H. Rapley	639,184	Dec. 12	1806	418	89	2239
Truck bolster. Body and car-	W. P. Bettendorf	620,269	Feb. 28	2691	617	86	1388
Truck bolster. Car-	W. P. Bettendorf	635,992	Oct. 31	3801	875	89	810
Truck bolster. Car-	R. W. Oswald	637,278	Nov. 21	2031	436	89	1366
Truck. Car-	J. Anderson	623,694	Apr. 25	2750	630	87	584
Truck. Car-	W. S. G. Baker	634,976	Oct. 17	1836	435, 436	89	398
Truck. Car-	J. C. Barber	620,092	Feb. 28	2377	538, 539	86	1339
Truck. Car-	J. L. Bowen	638,549	Dec. 5	684	144	89	1996
Truck. Car-	C. A. Boyd	629,333	July 25	2569	595, 596	88	553
Truck. Car-	G. M. Brill	627,899	June 27	3136	686	87	2284
Truck. Car-	G. M. Brill	627,900	June 27	3138	686	87	2284
Truck. Car-	J. A. Brill	636,484	Nov. 7	435	96, 97	89	1009
Truck. Car-	F. E. Canda	628,576	July 11	1184	277	88	248
Truck. Car-	F. E. Canda	628,577	July 11	1185	277	88	248
Truck. Car-	J. W. Cloud	625.925	May 30	3598	817, 818	87	1478

Alphabetical list of inventions—Continued.

Invention.	Name.	No.	Date.	Monthly volume.		Official Gazette.	
				Spec.	Dr'g.	Vol.	Page.
Truck. Car-	G. H. Frazier, C. W. Wheaton, and W. M. Hagans.	636,328	Nov. 7	169	37, 38	89	955
Truck. Car-	A. R. Green	638,665	Dec. 5	889	195, 196	89	2039
Truck. Car-	L. A. Hoerr	634,891	Oct. 17	1683	398	89	367
Truck. Car-	H. Kintz	626,211	May 30	4208	957	87	1591
Truck. Car-	P. M. Kling	621,826	Mar. 28	2394	535	86	2006
Truck. Car-	F. G. Koehler. (Reissue)	11,709	Jan. 10	1602	361	86	331
Truck. Car-	G. C. Murray	626,552	June 6	604	139	87	1731
Truck. Car-	E. G. Nicewaner	639,273	Dec. 19	1990	458, 459	89	2289
Truck. Car-	E. G. Nicewaner	639,274	Dec. 19	1992	459	89	2290
Truck. Car-	R. W. Oswald	621,275	Mar. 14	1379	305	86	1782
Truck Car-	F. Schneider	630,304	Aug. 1	1067	233	88	932
Truck. Car-	G. W. Scott	635,151	Oct. 17	2183	509, 510	89	466
Truck. Car-	G. Sebring, J. and C. E. Arner	627,210	June 20	1826	400	87	2006
Truck. Car-	J. W. Smith	624,556	May 9	1131	253	87	942
Truck. Car-	L. B. Smyser	635,357	Oct. 24	2550	593, 594	89	552
Truck. Car-	J. Taylor	623,440	Apr. 18	2291	524, 525	87	478
Truck. Car-	C. F. Uebelacker	635,986	Oct. 31	3789	872, 873	89	807
Truck. Casket-	R. W. Dixon	627,954	June 27	3232	708	87	2305
Truck. Casket-	R. W. Dixon	635,755	Oct. 31	3334	770	89	718
Truck. Casket-	W. H. Reama	621,284	Mar. 14	1391	309	86	1784
Truck. Convertible	G. M. Bott	618,325	Jan. 24	2794	620	86	594
Truck. Double	W. H. Wilkinson and H. L. Gee	639,639	Dec. 19	2673	613, 614	89	2428
Truck. Electric-car	J. Goettel	636,980	Nov. 14	1445	311	89	1239
Truck. Electric-motor	W. E. Boughton	633,713	Sept. 26	2862	665	88	2309
Truck end casting. Car-	R. H. Parks	637,279	Nov. 21	2033	436	89	1366
Truck. Flexible car-	G. L. Stuebner	629,050	July 18	2058	479	88	438
Truck for cars, &c	L. C. Cummings	618,028	Jan. 17	2219	495	86	471
Truck for driving up creeping railway-rails	P. J. Case and J. O. Mayhall	638,094	Nov. 28	3943	829	89	1803
Truck for grain-binders	S. K. Dennis	630,332	Aug. 8	1131	247	88	960
Truck for motor propulsion, &c. Car-	G. M. Brill	627,898	June 27	2125	684, 685	87	2280
Truck-frame	H. C. and W. B. Stalder	640,042	Dec. 26	3420	785	89	2595
Truck. Hand-	J. Maney and J. Stoever	634,532	Oct. 10	1052	250	89	228
Truck. Hand-	F. J. Mason	626,332	June 6	212	52	87	1653
Truck. Hand-	J. Pleukharp	620,668	Mar. 7	235	49	86	1548
Truck. Hand-	L. B. Walker	627,284	June 20	1961	432	87	2034
Truck. House-moving	J. E. Tandy	639,461	Dec. 19	2362	544	89	2364
Truck. Jointed	E. H. Northrop	637,650	Nov. 21	3097	641	89	1616
Truck. Letter-carrier's	W. C. Bower	634,799	Oct. 10	1514	356	89	317
Truck. Lumber-	W. D. Link	623,551	Apr. 25	2499	574	87	537
Truck. Maximum-traction	S. E. Clarkson	639,361	Dec. 19	2182	505	89	2329
Truck. Maximum-traction	C. F. Uebelacker	632,432	Sept. 5	394	90	88	1785
Truck. Motor-	T. J. Johnston and A. H. Abell	630,356	Aug. 8	1182	260	88	971
Truck. Motor-car	W. A. McGuire and M. G. Hubbard, Jr.	628,954	July 18	1888	438	88	404
Truck. Passenger-car	E. Cliff	625,745	May 30	3243	736, 737	87	1410
Truck. Piano-	P. W. Raynor	616,972	Jan. 3	197	45	86	39
Truck. Pivotal car-	W. S. Adams	637,544	Nov. 21	2535	549, 550	89	1465
Truck. Pivotal car-	G. M. Brill	635,274	Oct. 17	2392	557, 558	89	504
Truck. Platform-	G. K. Davis	627,845	June 27	3036	663	87	2263
Truck. Portable-engine	H. Vessey	618,525	Jan. 31	3188	704	86	683
Truck safety attachment. Car-	L. W. Olmstead	638,398	Dec. 5	407	85	89	1943
Truck side bearing. Car-	E. Cliff	628,526	July 11	1090	254	88	230
Truck side frame. Car-	W. P. Bettendorf	638,902	Dec. 12	1328	301	89	2145
Truck side frame. Car-	E. F. Goltra	620,911	Mar. 14	697	153	86	1650
Truck side frame. Car-	E. F. Goltra	630,214	Aug. 1	896	197	88	899
Truck. Street-car	J. C. Devlin	630,866	Aug. 15	2129	482, 483	88	1176
Truck. Tong-	W. J. Bunyea	638,661	Dec. 5	883	194	89	2037
Truck-transom	J. Player	632,425	Sept. 5	384	88	88	1782
Truck. Warehouse-	J. B. Doyle	638,565	Dec. 5	708	151	89	2001
Trucks. Driving mechanism for dynamos on car-	W. L. Bliss	627,291	June 20	1979	436	87	2038
Trunk	G. A. Boylston	638,088	Nov. 28	3907	822	89	1798
Trunk	L. Goldsmith	636,794	Nov. 14	1085	232	89	1167
Trunk	W. Hossfeld	621,086	Mar. 14	1034	227	86	1713
Trunk	F. J. Palica	621,972	Mar. 28	2688	605	86	2062
Trunk	P. H. Smith	622,870	Apr. 11	1234	287	87	253
Trunk	H. M. Turner	622,734	Apr. 11	991	230	87	208
Trunk	J. Wolf	635,832	Oct. 31	3488	802	89	747
Trunk and dressing-case. Combined	E. P. H. Carraway	630,587	Aug. 8	1650	369	88	1058
Trunk and wardrobe. Combined	A. Kohout and V Rous	623,913	Apr. 25	3175	731, 732	87	666
Trunk-binding device	N. Whittlesey	634,598	Oct. 10	1166	277	89	249
Trunk. Bureau and dresser	J. Barker	630,438	Aug. 8	1375	308	88	1004
Trunk-lashing	J. Cameron and W. E. Link	618,598	Jan. 31	3314	737	86	707
Trunk-lines. Apparatus for interoffice	F. R. McBerty	636,277	Nov. 7	96	21	89	941
Trunk-lock	B. Bernstein	629,763	Aug. 1	9	3	88	723
Trunk. Steamer-	T. B. Seery	621,375	Mar. 21	1557	345, 346	86	1829
Trunk-strap	B. F. Mellott	622,776	Apr. 11	1064	247	87	222
Trunk-strap	H. D. Wiard	619,243	Feb. 7	841	184	86	977
Trunk. Wall-	J. Wolf	626,953	June 13	1385	305	87	1900
Trunks. Adjustable partition-frame for	C. D. Williamson	619,456	Feb. 14	1220	277	86	1067
Trunks or the like. Strap-fastening for	O. A. Stoneman	631,235	Aug. 15	2787	632	88	1305
Trunks, valises, &c. Fastening or lock for	R. Claughton	631,775	Aug. 29	3816	850	88	1534

Alphabetical list of inventions—Continued.

Invention.	Name.	No.	Date.	Monthly volume. Spec.	Monthly volume. Drg.	Official Gazette. Vol.	Official Gazette. Page.
Truss	A. Bollinger	624,902	May 16	1754	396	87	1082
Truss	J. M. Cullis	618,334	Jan. 24	2810	623	86	596
Truss	S. C. Fancher	623,207	Apr. 18	1876	430	87	393
Truss	W. L. Fick	630,206	Aug. 1	880	190	88	896
Truss	J. L. Harkinson and H. A. Holliday	621,078	Mar. 14	1022	224	86	1711
Truss	W. H. Harrington	627,807	June 27	2966	649	87	2249
Truss	E. A. Kellogg	619,185	Feb. 7	741	161	86	957
Truss	T. O'Malley	616,958	Jan. 3	178	40	86	36
Truss	Z. Oliver	631,658	Aug. 22	3579	807	88	1480
Truss	L. A. and C. Smith	638,365	Dec. 5	349	73	89	1933
Truss	C. D. Speagh	624,113	May 2	316	65	87	760
Truss	G. A. Vescelus	623,581	Apr. 25	2554	586	87	548
Truss-beam	W. P. Bettendorf	620,561	Mar. 7	6	2	86	1504
Truss or frame	C. N. Dutton	621,469	Mar. 21	1723	383	86	1861
Truss-pad frame	J. R. Knapp	623,375	Apr. 18	2179	500	87	455
Truss-pad. Galvanic	S. S. Carpenter	639,147	Dec. 12	1746	403	89	2227
Tub: *See* Folding tub. Washtub.							
Tub	C. W. Lasher	629,863	Aug. 1	199	45	88	759
Tube: *See* Breathing-tube. Collapsible tube. Compressible tube. Electric incandescent tube. Metal tube. Pneumatic-despatch tube. Sheet-metal tube. Smoking-tube. Speaking-tube. Vaporizing-tube.							
Tube-bending machine	J. W. Bragger	632,636	Sept. 5	767	176, 177	88	1859
Tube-bending machine	J. J. Wallace	627,162	June 20	1752	384	87	1992
Tube-blanks. Manufacturing	E. E. Quimby	638,809	Dec. 12	1171	262	89	2115
Tube-blanks. Piercing-machine for making	E. E. Quimby	638,810	Dec. 12	1173	262, 263	89	2115
Tube-cleaner	W. S. Elliott	635,164	Oct. 17	2202	514	89	469
Tube-cleaner	W. M. Faber, Jr	620,113	Feb. 28	2419	547	86	1336
Tube-connecting device	A. Florin	635,534	Oct. 24	2917	666	89	624
Tube-cutter	J. P. Esveldt	627,490	June 27	2376	523	87	2133
Tube-expander	W. Q. Pfahler	633,037	Sept. 12	1553	361	88	2027
Tube-expanding device	F. G. Hampson	629,354	July 25	2612	606, 607	88	562
Tube fluting, corrugating, or grooving machine	H. Norris	617,763	Jan. 17	1717	386	86	373
Tube-forming apparatus	E. F. Holinger	619,747	Feb. 21	1751	400, 401	86	1194
Tube-handling device	E. Hett	637,583	Nov. 21	2864	591, 592, 593	89	1556
Tube-header	M. Coryell	633,337	Sept. 19	2162	506	88	2159
Tube-joint for metallic tubing. Reinforced	F. A. Wilmot	620,395	Feb. 28	2908	667	86	1430
Tube-making apparatus	F. T. Reid	627,205	June 20	1820	399	87	2006
Tube-washing apparatus	F. Bubser	620,224	Feb. 28	2613	594	86	1372
Tubes. Apparatus for manufacturing steel or other metal	T. B. Sharp and F. Billing	639,299	Dec. 19	2044	470	89	2300
Tubes. Apparatus for producing ribbed or corrugated	S. Frank	629,245	July 18	2400	556	88	502
Tubes. Apparatus for unifying sectional curvature of	B. C. Batcheller and R. Gundlach	620,213	Feb. 28	2601	591	86	1370
Tubes. Die and tool for upsetting	J. R. Blakeslee	633,280	Sept. 19	2041	479	88	2135
Tubes from billets. Mechanism for making	J. H. Nicholson	628,024	July 4	117	24	88	25
Tubes from metallic ingots. Mechanism for making	L. D. Davis	617,083	Jan. 3	427	104	86	82
Tubes. Manufacture of	R. C. Stiefel	618,917	Feb. 7	185	40, 41	86	841
Tubes. Manufacture of inflatable	F. Mallalieu	631,803	Aug. 29	3864	861	88	1544
Tubes. Mold for blanks for making conical metal	E. Böck	634,160	Oct. 3	332	84	89	69
Tubes or nuts. Manufacture of metallic	S. Vanstone	618,817	Jan. 31	3702	828	86	784
Tubes or other receptacles with rubber solution, &c. Machine for filling	W. C. Brett	619,067	Feb. 7	512	107, 108	86	910
Tubing. Conduit	W. A. McCool	638,261	Dec. 5	109	25	89	1887
Tubing coupling device. Flexible	L. Von Grave	624,477	May 9	978	217	87	912
Tubing. Lined	J. Rowe	631,328	Aug. 22	2979	674	88	1360
Tubing. Metallic	T. Midgley	624,956	May 16	1854	416	87	1100
Tubing. Method of and apparatus for making roll-drawn	H. R. Keithley	631,851	Aug. 29	3941	881, 882	88	1560
Tubing. Process of and apparatus for making lined	J. Rowe	624,868	May 9	1694	384	87	1052
Tubular boiler	A. Bink	618,556	Jan. 31	3244	720, 721	86	693
Tubular fabric. Machine for turning and cutting	F. A. Weller	622,741	Apr. 11	1001	233, 234	87	209
Tubular heater, &c	V. C. J. Ortmans	626,924	June 13	1334	294	87	1890
Tubular joint	S. Walker	625,371	May 23	2588	589	87	1264
Tubular marine boiler	H. Siebert	635,003	Oct. 17	1873	446, 447	89	407
Tubular structure	J. H. Brown	630,585	Aug. 8	1647	368	88	1058
Tucking. Ruffled	W. Bowden	635,227	Oct. 17	2309	538	89	490
Tufted fabrics. Machine for making	C. S. E. Spoerl	622,901	Apr. 11	1296	299	87	264
Tufting apparatus. Cushion	A. Freschl	619,685	Feb. 14	1617	370	86	1143
Tufting apparatus. Cushion	A. Freschl	620,070	Feb. 21	2332	530	86	1306
Tufting apparatus. Cushion	A. Freschl. (Reissue)	11,778	Oct. 24	3290	759	89	696
Tufting apparatus. Cushion	A. Freschl. (Reissue)	11,779	Oct. 24	3292	759	89	696
Tufting apparatus. Upholsterer's	F. B. Wersel, Jr	636,877	Nov. 14	1236	267	89	1198
Tufting device	T. J. Gorman, F. Bertsch, and F. Aamodt.	617,248	Jan. 3	729	169	86	143
Tufting device	D. E. Rowley	627,271	June 20	1944	428	87	2031
Tufting device	D. E. Rowley	628,552	July 11	1135	264, 265	88	239
Tufting machine. Fabric	J. T. Roberts	632,927	Sept. 12	1367	315	88	1991
Tug-fastener	F. M. Lee	623,166	Apr. 18	1808	414	87	380
Tug-fastening for vehicles	P. S. Humphrey	630,704	Aug. 8	1849	417	88	1096
Tug. Hame	A. Grisso	639,229	Dec. 19	1918	441	89	2274

Alphabetical list of inventions—Continued.

Invention.	Name.	No.	Date.	Monthly volume.		Official Gazette.	
				Spec.	Dr'g.	Vol.	Page.
Tug. Hame-	A. Grisso	639,230	Dec. 19	1919	441	89	2274
Tug or carrier. Shaft	H. A. Bierley	620,218	Feb. 28	2607	592	86	1371
Tug. Shaft-	J. K. Christy	640,157	Dec. 26	3624	833	89	2637
Tug. Shaft-	W. Colligan and M. J. Daley	619,943	Feb. 21	2114	479	86	1264
Tug. Shaft-	T. W. Davies	634,720	Oct. 10	1385	326	89	293
Tug. Shaft-	N. W. Hunter	627,581	June 27	2553	562	87	2166
Tumbler-finishing machine	D. Schiffbauer	620,367	Feb. 28	2866	656	86	1422
Tumbler-washer	R. C. Clute	622,446	Apr. 4	443	103	87	82
Tumblers, glasses, or vases, &c. Manufacture of	J. B. Fondu	622,457	Apr. 4	459	106, 107, 108, 109	87	85
Tuning-hammer	C. F. Mueller	634,016	Oct. 3	63	17	89	16
Tuning-peg. Stringed-instrument	F. L. Becker	621,207	Mar. 14	1247	275	86	1756
Tunnel and constructing same. Subaqueous	W. H. Knight and F. M. Landé	629,133	July 18	2218	514, 515	88	470
Tunnel and constructing same. Subaqueous	L. Nixon and W. H. Knight	629,135	July 18	2223	515, 516	88	470
Tunnel-lining	T. H. Murphy	626,078	May 30	3931	893	87	1540
Tunnel. Submarine	C. H. Buckelew	634,322	Oct. 3	672	162	89	135
Tunneling device	B. F. Carpenter	620,102	Feb. 28	2400	542	86	1333
Tunnels. Constructing	B. F. Carpenter	620,101	Feb. 28	2390	541, 542	86	1331
Tunneling-shield	C. G. Hastings	626,063	May 30	3897	885	87	1533
Turban and visor cap. Convertible	W. E. Hallin	636,259	Nov. 7	63	14	89	935
Turbine	F. Prásil	629,700	July 25	3242	754, 755	88	686
Turbine	A. C. Rice	620,964	Mar. 14	805	177	86	1670
Turbine	B. and B. Russell	628,635	July 11	1319	307	88	274
Turbine engine	I. Rigdon	638,277	Dec. 5	153	34,35	89	1895
Turbine motor	W. S. Elliott	635,163	Oct. 17	2200	513	89	469
Turbine motor	N. Nilsson	637,818	Nov. 28	3405	713	89	1698
Turbine. Steam-	J. C. Henderson	634,170	Oct. 3	345	88	89	71
Turbine. Steam-	J. H. K. McCollum	638,260	Dec. 5	108	25	89	1887
Turbine. Steam-	C. A. Parsons	639,608	Dec. 19	2611	600	89	2415
Turbine. Steam or gas	E. C. Terry	636,867	Nov. 14	1213	262	89	1194
Turbine wheels. Manufacture of	J. B. McCormick, Jr	621,270	Mar. 14	1360	302	86	1778
Turfing implement	J. B. Hupp	632,719	Sept. 12	983	227	88	1916
Turnbuckle	F. H. Davis	634,431	Oct. 3	871	210	89	175
Turnbuckle	J. A. Steinmetz	622,286	Apr. 4	156	36	87	32
Turn-table	M. N. Edwards	624,769	May 9	1498	340	87	1014
Turn-table	J. W Knopp	638,724	Dec. 12	1032	231	89	2087
Turn-table lock	G. Rohrbach	620,500	Feb. 28	3073	702	86	1461
Turn-table-operating mechanism	G. Rohrbach	620,501	Feb. 28	3074	703	86	1462
Turning and polishing crooked or straight wooden rods or sticks. Machine for	T. Kovatsch	620,152	Feb. 28	2486	565	86	1350
Turning balls. Machine for automatically	H. H. A. Wiegand and W. A. Seifert	625,004	May 16	1926	432	87	1115
Turning irregular forms. Apparatus for	G. A. McLane	628,486	July 11	1002	234	88	213
Turning machine. Post-	R. Harris	618,667	Jan. 31	3442	767, 768	86	732
Turning machine. Spindle-	R. Harris	624,930	May 16	1814	407	87	1092
Turning machine. Wood-	G. W. Pringle and W. Brodie	630,928	Aug. 15	2238	510	88	1197
Turning regular hexagons. Machine for	W. B. Pearson	633,108	Sept. 12	1709	402	88	2057
Turning round bars. Machine for	L. H. Brightman	625,922	May 30	3592	815, 816	87	1477
Turning-over and rolling-up machine	E. Hett	637,590	Nov. 21	2892	597, 598	89	1563
Turning-tool	W. A. Pendry	638,880	Dec. 12	1287	292, 293	89	2136
Turret	H. P. Hurst	630,889	Aug. 15	2164	492	88	1183
Turret-operating mechanism	A. Swasey	632,906	Sept. 12	1336	306, 307	88	1985
Twine-balling machine	F. G. Becker	619,383	Feb. 14	1090	246, 247	86	1043
Twine-binder tension device	O. B. Lofstedt	626,175	May 30	4143	943	87	1579
Twine-cutter	J. T. McDonald	622,063	Mar. 28	2831	638	86	2090
Twine cutter for counters, &c. Packing-	M. T. Shine	617,515	Jan. 10	1240	283	86	261
Twine-holder	O. Andrews	639,841	Dec. 26	3068	704, 705	89	2522
Twine-holder	N. R. Streeter	629,018	July 18	2001	466	88	427
Twine-holder	W. H. Tivy and J. E. Hill	623,493	Apr. 18	2380	547	87	496
Twine-holder take-up device	W. H. Tivy and J. E. Hill	623,494	Apr. 18	2381	548	87	496
Twisting-machine feeding mechanism	J. E. Tynan	629,940	Aug. 1	388	83	88	799
Twisting-machines. Kink-preventer and signal for	J. E. Tynan	619,807	Feb. 21	1876	428	86	1219
Twisting machinery	J., P., and N. Fraser	634,407	Oct. 3	826	199	89	165
Two-piece box	M. Armstrong	637,757	Nov. 28	3299	689	89	1675
Two-rate meter	C. D. Haskins	619,302	Feb. 14	960	218	86	1017
Two-way pivotal coupling	S. B. Hart	627,260	June 20	1927	424	87	2027
Twyer for smiths' hearths or forges	W. Lindemann	623,483	Apr. 18	2365	544	87	493
Twyer-iron	F. S. Blakesley	619,010	Feb. 7	410	86	86	890
Twyer-iron	G. W. Williams	620,686	Mar. 7	262	53	86	1553
Tympan-gage	O. Johnson	638,124	Nov. 28	4013	845	89	1818
Tympan-gage	B. McGinty	618,713	Jan. 31	3522	786	86	748
Tympan-shifting mechanism	L. C. Crowell	618,058	Jan. 24	2281	509, 510, 511	86	498
Tympan-shifting mechanism	L. C. Crowell and T. M. North	618,059	Jan. 24	2291	511, 512, 513	86	500
Tympan-shifting mechanism	T. M. North	618,125	Jan. 24	2423	541, 542	86	524
Tympanum-exercising apparatus	W. H. Wigmore	627,790	June 27	2932	642	87	2243
Type-bar	S. J. and E. S. Shimer	620,509	Feb. 28	3088	705	86	1465
Type-bar bracket	C. Spiro	631,412	Aug. 22	3126	709	88	1389
Type-case	C. J. Botz	628,442	July 11	924	215	88	197

Alphabetical list of inventions—Continued.

Invention.	Name.	No.	Date.	Monthly volume. Spec.	Monthly volume. Drg.	Official Gazette. Vol.	Official Gazette. Page.
Type-casting and composing machine	J. S. Bancroft	625,998	May 30	3733	846, 847, 848, 849, 850, 851, 852, 853, 854, 855, 856, 857, 858, 859, 860	87	1505
Type-casting and composing machine	T. Lanston	633,088	Sept. 12	1627	379, 380, 381, 382, 383, 384, 385, 386, 387, 388, 389, 390, 391, 392	88	2043
Type-casting and composing machine	C. Méray-Horváth	628,631	July 11	1302	308, 304, 305, 306	88	271
Type-casting machine	D. Z. Borne and J. Frey	636,622	Nov. 7	704	153	89	1064
Type-casting machine	C. R. Murray	629,751	July 25	3340	779, 780	88	705
Type-containing channel	L. K. Johnson and A. A. Low	630,831	Aug. 8	2065	466	88	1140
Type-containing channel	L. K. Johnson and A. A. Low	634,214	Oct. 3	433	111	89	90
Type-dies. Mechanism for assembling and distributing	J. R. Rogers	630,412	Aug. 8	1322	295, 296, 297	88	995
Type-distributing apparatus	A. A. Low	618,475	Jan. 31	3087	683	86	664
Type for Arabic characters	A. R. Guest and E. T. Richmond	639,379	Dec. 19	2212	512	89	2335
Type-forming-machine attachment	C. A. Hollenbeck and R. F. Wilson	625,679	May 23	3109	707	87	1366
Type-founding apparatus	F. Wicks	618,926	Feb. 7	208	45	86	845
Type-holder	W. A. Fenn	630,873	Aug. 15	2139	485	88	1178
Type justifying and spacing machine	C. W. Dickinson	633,309	Sept. 19	2086	489, 490, 491, 492, 493, 494, 495, 496	88	2144
Type-justifying apparatus	E. F. Linke	626,914	June 13	1318	290	87	1888
Type-justifying machine	F. McClintock	635,866	Oct. 31	3550	817, 818	89	759
Type-line bars. Means for forming	A. E. Dowell	620,289	Feb. 28	2728	625	86	1396
Type-machines. Machine for perforating strips for	J. S. Bancroft and W. H. Wood	628,620	July 11	1245	290, 291, 292, 293, 294	88	261
Type-making-machine galley mechanism	W. A. Lorenz	625,044	May 16	1992	445, 446, 447, 448, 449, 450, 451	87	1127
Type-mold	E. C. McFarland	630,917	Aug. 15	2220	506	88	1193
Type. Printing-	E. V. Beals	632,484	Sept. 5	496	113, 114	88	1805
Type. Printing-	A. L. Campfield	635,651	Oct. 24	3130	720	89	665
Type-setting apparatus	C. D. Hughes	626,758	June 13	984	223	87	1823
Type-setting apparatus	L. K. Johnson and A. A. Low	618,463	Jan. 31	3070	680	86	660
Type-setting apparatus	L. K. Johnson and A. A. Low	625,931	May 30	3607	820	87	1480
Type-setting apparatus	L. K. Johnson and A. A. Low	630,832	Aug 8	2067	466, 467	88	1141
Type-setting apparatus	L. K. Johnson and A. A. Low	639,244	Dec. 19	1943	448	89	2279
Type-setting apparatus	L. K. Johnson and A. A. Low	639,245	Dec. 19	1946	448	89	2280
Type-setting machine	C. J. Botz	630,772	Aug. 8	1956	441, 442, 443	88	1117
Type-setting machine	A. Dow	637,858	Nov. 28	3478	727, 728, 729, 730	89	1713
Type-space. Serpentine or crimped	C. R. Murray	618,800	Jan. 31	3673	823	86	778
Type-tie	H. E. Reeves	624,977	May 16	1888	423	87	1107
Type-wheels. Mold for casting solid	G. P. Conant	636,378	Nov. 7	256	57	89	972
Type-writer	G. S. Anderson	631,144	Aug. 15	2637	597, 598	88	1274
Type-writer	W. G. Babcock	617,798	Jan. 17	1799	403	86	389
Type-writer	P. Becker and W. J. Thompson	621,628	Mar. 21	2001	446, 447	86	1913

Alphabetical list of inventions—Continued.

Invention.	Name.	No.	Date.	Monthly volume. Spec.	Monthly volume. Drg.	Official Gazette. Vol.	Official Gazette. Page.
Type-writer	W. C. Chapman	624,297	May 2	643	141, 142	87	822
Type-writer	W. L. Colby	621,325	Mar. 21	1475	327	86	1813
Type-writer	J. Dela Mar	623,502	Apr. 18	2397	550, 551	87	499
Type-writer	W. H. Hanson	624,929	May 16	1802	405, 406	87	1091
Type-writer	W. P. Hatch and F. W. Hillard	620,125	Feb. 28	2441	552	86	1341
Type-writer	P. B. W. Kershaw	618,683	Jan. 31	3465	773, 774, 775	86	737
Type-writer	R. C. Little	626,915	June 13	1321	291	87	1888
Type-writer	C. E. Peterson	634,183	Oct. 3	365	93, 94	89	75
Type-writer	W. Sears	623,262	Apr. 18	1981	454	87	415
Type-writer	E. S. Shimer	626,936	June 13	1353	298	87	1894
Type-writer	C. Spiro	620,808	Mar. 7	503	107, 108	86	1600
Type-writer	G. A. West	621,878	Mar. 28	2487	555, 556	86	2025
Type-writer	J. Winsor	625,375	May 23	2591	590	87	1265
Type-writer and telegraphic transmitter. Combined	C. E. Yetman	637,059	Nov. 14	1591	343, 344	89	1268
Type-writer attachment	F. W. Dobbel	634,446	Oct. 10	902	217	89	198
Type-writer attachment	J. B. Force	627,180	June 20	1780	390	87	1998
Type-writer attachment	J. T. Simms	623,221	Apr. 18	1897	435	87	397
Type-writer attachment	D. K. Wenrich	622,789	Apr. 11	1084	252	87	225
Type-writer. Book	J. W. Johnson	628,268	July 4	589	139, 140	88	114
Type-writer. Book	J. H. Myers	637,816	Nov. 28	3396	711, 712	89	1696
Type-writer cabinet	E. E. Baker	625,082	May 16	2062	463	87	1139
Type-writer-cabinet drawer	L. Henley	635,962	Oct. 31	3727	861	89	793
Type-writer carbon-holder	M. J. Sunderlin	617,841	Jan. 17	1880	419	86	405
Type-writer ciphograph	E. A. Bofinger	630,847	Aug. 15	2095	475	88	1169
Type-writer ciphograph	E. A. Bofinger	630,848	Aug. 15	2097	475, 476	88	1169
Type-writer connecting-rod	F. J. Dyett	635,306	Oct. 24	2454	570	89	533
Type-writer copy-holder	G. S. Gallagher	629,744	July 25	3327	776	88	703
Type-writer copy-holder attachment	R. G. English	636,963	Nov. 14	1410	302	89	1232
Type-writer counter	S. W. Varney	628,256	July 4	571	136	88	112
Type-writer desk	M. J. Hafgar	631,300	Aug. 22	2926	663	88	1349
Type-writer desk	H. B. Sanders	625,852	May 30	3456	784	87	1451
Type-writer. Dummy	W. H. Verch	625,370	May 23	2587	589	87	1264
Type-writer. Electrically-operated	W. R. Fox and G. J. Barrett	633,826	Sept. 26	3039	706	88	2345
Type-writer instruction. Method of and apparatus for	C. W. Barkley	623,966	May 2	8	1	87	704
Type-writer platen	T. R. Nolan	626,556	June 6	611	140	87	1733
Type-writer-platen pawl	J. H. Niles	619,985	Feb. 21	2180	496	86	1277
Type-writer ribbon	R. G. Hopkins	622,361	Apr. 4	282	65	87	54
Type-writer ribbon-feed mechanism	C. Spiro	619,027	Feb. 7	443	93	86	896
Type-writer ribbon-feed mechanism	C. Spiro	631,413	Aug. 22	3128	709, 710	88	1389
Type-writer ribbon-feed-reversing mechanism	G. A. Seib	624,107	May 2	295	62	87	757
Type-writer spacing attachment	R. J. Miner	630,725	Aug. 8	1880	425	88	1102
Type-writers. Carriage-shifter and line-spacer for	J. M. Cramer	631,155	Aug. 15	2658	601, 602	88	1278
Type-writers. Mechanical instrument for	V. Cumberson	626,056	May 30	3887	883	87	1532
Type-writers. Paper-carriage and index mechanism for	F. X. Wagner	624,135	May 2	348	71, 72	87	766
Type-writers, &c. Paper-feeding mechanism for	H. Duruz	628,454	July 11	944	219, 220	88	201
Type-writer's rack-bar	E. L. Fearing	629,717	July 25	3280	765	88	693
Type-writing and adding machine	W. L. Bundy	617,560	Jan. 10	1330	299, 300, 301	86	278
Type-writing and adding machine. Combined	G. A. West	621,879	Mar. 28	2492	556, 557	86	2026
Type-writing machine	W. J. Barron	619,711	Feb. 21	1684	385, 386	86	1182
Type-writing machine	W. J. Barron	623,232	Apr. 18	1916	440	87	402
Type-writing machine	W. J. Barron	627,678	June 27	2739	600	87	2204
Type-writing machine	W. J. Barron	636,941	Nov. 14	1375	293	89	1224
Type-writing machine	E. M. Bennett	636,709	Nov. 7	876	194	89	1101
Type-writing machine	B. F. Blakeman	623,940	Apr. 25	3221	743	87	674
Type-writing machine	G. C. Blickensderfer	621,742	Mar. 21	2230	502, 503, 504	86	1959
Type-writing machine	A. T. Brown	616,888	Jan. 3	32	7, 8, 9	86	8
Type-writing machine	H. Burg	629,233	July 18	2375	551, 552	88	498
Type-writing machine	L. S. Burridge	634,285	Oct. 3	593	146, 147	89	119
Type-writing machine	L. S. Burridge	639,660	Dec. 19	2710	623, 624	89	2435
Type-writing machine	M. S. Carmona	638,091	Nov. 28	3913	824, 825, 826	89	1799
Type-writing machine	M. S. Carmona	638,092	Nov. 28	3929	826, 827, 828	89	1801
Type-writing machine	C. N. Fay	629,437	July 25	2755	640, 641	88	593
Type-writing machine	J. Felbel	619,290	Feb. 14	940	213	86	1012
Type-writing machine	J. Felbel	619,880	Feb. 21	2013	458	86	1246
Type-writing machine	R. J. Fisher. (Reissue)	11,707	Jan. 3	854	200, 201	86	169

Alphabetical list of inventions—Continued.

Invention.	Name.	No.	Date.	Monthly volume. Spec.	Monthly volume. Dr'g.	Official Gazette. Vol.	Official Gazette. Page.
Type-writing machine	R. J. Fisher	632,682	Sept. 5	897	208, 209	88	1887
Type-writing machine	R. J. Fisher	637,749	Nov. 21	3274	683, 684	89	1652
Type-writing machine	R. J. Fisher and C. F. Laganke	632,681	Sept. 5	893	207, 208	88	1886
Type-writing machine	W. R. Fox and G. J. Barrett	633,827	Sept. 26	3041	706, 707	88	2346
Type-writing machine	H. L. Gaveau	624,323	May 2	701	154, 155	87	835
Type-writing machine	E. B. Hess and J. M. Stoughton	620,774	Mar. 7	438	91	86	1587
Type-writing machine	E. B. Hess and J. M. Stoughton	637,335	Nov. 21	2157	465	89	1392
Type-writing machine	E. B. Hess and O. Tyberg	637,334	Nov. 21	2153	464, 465	89	1391
Type-writing machine	W. T. Hoofnagle	622,472	Apr. 4	500	119	87	94
Type-writing machine	W. H. Hulse	632,718	Sept. 12	979	227	88	1915
Type-writing machine	W. P. Kidder	630,060	Aug. 1	633	138, 139	88	849
Type-writing machine	T. A. Killman and H. A. Bratten	633,139	Sept. 19	1768	417, 418	88	2081
Type-writing machine	N. R. Marshman	636,156	Oct. 31	4127	945	89	874
Type-writing machine	N. R. Marshman	638,131	Nov. 28	4022	847	89	1820
Type-writing machine	O. F. Mayer	634,988	Oct. 17	1857	441	89	402
Type-writing machine	H. McDougall	638,027	Nov. 28	3819	803	89	1780
Type-writing machine	J. H. McElroy	619,777	Feb. 21	1812	415, 416	86	1207
Type-writing machine	E. H. Merritt	629,800	Aug. 1	68	17, 18	88	734
Type-writing machine	L. H. Perry	635,942	Oct. 31	3691	853	89	787
Type-writing machine	J. Pratt	620,959	Mar. 14	786	173, 174	86	1667
Type-writing machine	J. Pratt	620,960	Mar. 14	791	174, 175	86	1668
Type-writing machine	J. Pratt	620,961	Mar. 14	796	175, 176	86	1669
Type-writing machine	J. Pratt	631,381	Aug. 22	3066	694, 695, 696	88	1377
Type-writing machine	J. B. Price	627,141	June 20	1710	375	87	1984
Type-writing machine	J. B. Price	635,078	Oct. 17	2030	479	89	438
Type-writing machine	J. B. Price	635,079	Oct. 17	2033	480	89	438
Type-writing machine	W. P. Quentell	624,864	May 9	1683	381, 382	87	1050
Type-writing machine	W. P. Quentell	624,865	May 9	1686	382	87	1050
Type-writing machine	W. P. Quimby	619,260	Feb. 7	871	191, 192	86	983
Type-writing machine	C. H. Shepard	617,056	Jan. 3	386	94	86	75
Type-writing machine	C. H. Shepard	626,775	June 13	1030	232	87	1833
Type-writing machine	C. H. Shepard	626,776	June 13	1032	232	87	1833
Type-writing machine	C. H. Shepard	635,981	Oct. 31	3774	870	89	803
Type-writing machine	C. H. Shepard	639,300	Dec. 19	2045	470	89	2300
Type-writing machine	E. S. Shimer	626,104	May 30	3997	911	87	1550
Type-writing machine	E. S. Shimer	630,121	Aug. 1	736	158	88	869
Type-writing machine	J. A. Sommerville	639,912	Dec. 26	3186	732	89	2547
Type-writing machine	H. H. Steele	617,887	Jan. 17	1968	440	86	423
Type-writing machine	B. C. Stickney	635,609	Oct. 24	3052	701	89	649
Type-writing machine	W. H. Stocker	619,365	Feb. 14	1056	237	86	1036
Type-writing machine	G. H. Treadgold	631,833	Aug. 29	3908	874	88	1553
Type-writing machine	G. H. Treadgold	635,946	Oct. 31	3700	855	89	789
Type-writing machine	G. H. Treadgold	635,947	Oct. 31	3703	855	89	789
Type-writing machine	H. Türk	621,389	Mar. 21	1577	349, 350	86	1832
Type-writing machine	R. Turner	634,433	Oct. 3	873	211	89	176
Type-writing machine	J. Veith	634,653	Oct. 10	1255	298	89	267
Type-writing machine	R. W. Uhlig	625,616	May 23	3000	684	87	1345
Type-writing machine	R. W. Uhlig	625,617	May 23	3003	684, 685, 686	87	1346
Type-writing machine	R. W. Uhlig	625,729	May 23	3195	726, 727, 728	87	1383
Type-writing machine	H. L. and F. X. Wagner	633,672	Sept. 26	2778	646, 647	88	2292
Type-writing machine	C. D. Wallace	626,354	June 6	253	59, 60, 61, 62	87	1663
Type-writing machine	G. B. Webb	618,154	Jan. 24	2493	553	86	537
Type-writing machine	W. Wendt	627,218	June 20	1842	403	87	2010
Type-writing machine	C. N. Westwood	623,451	Apr. 18	2310	529	87	483
Type-writing machine	M. A. Wier	619,855	Feb. 21	1962	445, 446	86	1237
Type-writing-machine attachment	W. Cooper	626,221	June 6	13	3	87	1617
Type-writing-machine attachment	S. M. Haney and J. M. Hurst	636,797	Nov. 14	1089	233, 234	89	1168
Type-writing-machine attachment	T. Oliver	617,350	Jan. 10	942	217	86	203
Type-writing-machine attachment	F. G. Pribyl	633,347	Sept. 19	2178	511	88	2162
Type-writing-machine copy-holder	G. S. Gallagher	624,641	May 9	1271	284	87	968
Type-writing-machine desk	H. F. W. and J. H. F. Dornette	622,211	Apr. 4	26	6	87	8
Type-writing-machine escapement	J. A. and A. H. Bedworth	630,025	Aug. 1	563	124	88	835
Type-writing-machine paper-controlling attachment.	R. E. E. de Montluzin	635,795	Oct. 31	3410	786	89	734
Type-writing-machine reflecting attachment	O. Rice	625,356	May 23	2564	583	87	1259
Type-writing-machine ribbon mechanism	C. N. Fay	629,438	July 25	2762	641, 642	88	594
Type-writing-machine ribbon movement	R. Turner	632,767	Sept. 12	1067	247	88	1933
Type-writing-machine support	R. J. Fisher	632,680	Sept. 5	891	207	88	1886

Alphabetical list of inventions—Continued.

Invention.	Name.	No.	Date.	Monthly volume.		Official Gazette.	
				Spec.	Dr'g.	Vol.	Page.
Type-writing-machine support	H. J. Halle	621,660	Mar. 21	2064	461, 462, 463	86	1926
Type-writing-machine type	W. C. Hull	620,137	Feb. 28	2468	560	86	1347
Type-writing-machine type	F. V. Jones and L. C. Myers	637,340	Nov. 21	2169	467	89	1394
Type-writing-machine type-cleaner	M. G. West	632,298	Sept. 5	174	39	88	1742
Type-writing machines. Paper-roll attachment for	D. H. Van Devanter	631,600	Aug. 22	3488	788	88	1463
Type-writing machines. Registering device for	H. C. and F. R. D. Scroggs and C. F. A. Saxby.	630,305	Aug. 1	1069	233	88	933
Types for type-writers or printing-presses	S. S. Haddad	637,109	Nov. 14	1682	365	89	1284
Typographic machine	I. Risley	626,097	May 30	3963	900, 901	87	1546
Typographic machine	I. Risley and V. F. Lake	620,183	Feb. 28	2527	574, 575, 576, 577, 578	86	1358
Typographic machine	I. Risley and V. F. Lake	626,098	May 30	3967	901, 902, 903, 904, 905, 906, 907, 908, 909, 910	87	1546
Udder-protector	W. H. Hanna	637,780	Nov. 28	3335	698	89	1683
Umbrella	E. A. de and E. Biaggi	632,630	Sept. 5	756	174	88	1856
Umbrella	A. B. Cameron	638,700	Dec. 12	984	219	89	2078
Umbrella	W. H. Gurney	634,453	Oct. 10	915	219	89	200
Umbrella	E. M. Harley	633,584	Sept. 26	2629	614	88	2263
Umbrella	W. G. McGee	634,018	Oct. 3	65	18	89	17
Umbrella	J. C. Warren	620,815	Mar. 7	515	110	86	1603
Umbrella	C. Worring and A. Kortenbach	636,936	Nov. 14	1367	291	89	1223
Umbrella. Bicycle-	G. Valiant	639,634	Dec. 19	2664	612	89	2426
Umbrella-carrying device	S. McCrae	631,172	Aug. 15	2690	608	88	1285
Umbrella-case	T. C. Perry	636,450	Nov. 7	368	83	89	995
Umbrella-cover	T. Hofrichter	628,006	July 4	91	18	88	19
Umbrella-cover. Detachable	C. A. Shaler	630,415	Aug. 8	1329	298	88	996
Umbrella-cover fastener	G. M. Brown-Westhead	629,541	July 25	2965	691	88	633
Umbrella-cover tip	J. F. Witt	620,206	Feb. 28	2591	589	86	1368
Umbrella. Folding	F. G. Grove and F. E. Stover	639,556	Dec. 19	2531	581	89	2399
Umbrella. Folding	A. S. Hubbell	627,695	June 27	2766	606	87	2209
Umbrella. Folding	C. A. Rosenholz and J. H. Lampe	620,504	Feb. 28	3078	704	86	1463
Umbrella-holder	I. H. Holmes	634,526	Oct. 10	1038	248	89	224
Umbrella-holder. Vehicle	E. C. F. Tardel	635,612	Oct. 24	3059	702	89	650
Umbrella notch-joint	J. H. Fleisch	620,025	Feb. 21	2256	511	86	1291
Umbrella-repairing device	W. T. B. McDonald	629,168	July 18	2277	528	88	480
Umbrella rib-joint. Folding-	C. C. Frost	626,203	May 30	4198	954	87	1590
Umbrella-runner	J. Rose	631,442	Aug. 22	3182	723	88	1401
Umbrella-runner	S. E. Smith	638,074	Nov. 28	3883	817	89	1793
Umbrella. Self opening or closing	E. Scherff, F. Rehdorff, and C. Ottow.	616,977	Jan. 3	206	47	86	41
Umbrella-stick	W. Morrison	619,831	Feb. 21	1908	435	86	1226
Umbrella-stick	J. Rose	631,441	Aug. 22	3181	722	88	1401
Umbrella-stick	J. H. Sprague	631,942	Aug. 29	4090	918	88	1588
Umbrella-stick. Folding	P. Meyer	627,780	June 27	2916	638	87	2240
Umbrella stuffs. Machine for examining	K. Eggemann	629,104	July 18	2165	503	88	460
Umbrella-support	G. N. Frazier and C. P. Coy	633,828	Sept. 26	3044	707	88	2346
Umbrella-support	H. J. Shoemaker	620,616	Mar. 7	122	25	86	1526
Umbrella-top protector	W. O. Forsyth	620,764	Mar. 7	425	88	86	1584
Umbrella. Ventilated	M. A. Eatman	617,415	Jan. 10	1076	246	86	229
Umbrellas, &c. Handle for	F. C. Hull	639,731	Dec. 26	2851	657	89	2480
Umbrellas. Machine for making paragon frames for	G. Wilms	636,373	Nov. 7	249	54, 55	89	971
Unchecking device	J. P. Hart	622,767	Apr. 11	1051	243	87	219
Uncoupling device	J. W. Addis	620,558	Mar. 7	1	1	86	1503
Underback	F. Orth and F. Schimper	639,761	Dec. 26	2919	672	89	2493
Undergarment	N. Hatch	620,317	Feb. 28	2782	636	86	1406
Undergarment	S. Unger and M. Leininger	619,102	Feb. 7	574	123	86	923
Undergarment. Combination-	H. H. Condit	637,708	Nov. 21	3207	666	89	1638
Undergarment. Combination-	T. E. Kremer	624,825	May 9	1616	367	87	1037
Undershirt. Suspensory	M. J. Nerney	637,817	Nov. 28	3404	712	89	1698
Undervest	H. C. Tytler	635,883	Oct. 31	3580	823	89	765
Underwaist	L. E. Hacherelle	626,422	June 6	382	89	87	1688
Underwaist	E. M. Worth	630,157	Aug. 1	806	174	88	882
Unicycle	H. G. Wise, Jr	619,816	Feb. 21	1886	430	86	1221
Unicycle driving mechanism	H. Ganswindt	638,963	Dec. 12	1430	327, 328	89	2166
Union-coupling	A. E. Dart	631,064	Aug. 15	2501	566	88	1249
Universal joint	G. A. Prior	634,540	Oct. 10	1069	255	89	230
Universal joint for shafting, &c	A. Vanderbeek	617,869	Jan. 17	1936	433	86	417
Unloader	W. G. Jibben	639,396	Dec. 19	2240	518	89	2340
Unloading apparatus	W. A. and E. Ropp	631,129	Aug. 15	2616	592	88	1270
Upholsterer's form	T. Swan	632,475	Sept. 5	486	111	88	1803
Upholstering	O. A. Keil and J. Gallagher	620,712	Mar. 7	324	66	86	1564
Upholstering apparatus	E. F. Braisher	639,512	Dec. 19	2438	563, 564	89	2380
Upholstering apparatus	E. F. Braisher and H. M. Foulk	639,142	Dec. 12	1740	402	89	2226
Upholstering-apparatus button-holder	C. F. Percival and E. E. Liddell	637,025	Nov. 14	1535	330	89	1257
Upholstering appliance	H. Voight	624,134	May 2	345	71	87	766
Upholstering-machine	H. C. Jones	635,046	Oct. 17	1956	463, 464	89	422
Upholstery. Machine for forming tufted	F. B., Jr., and G. N. Wersel	631,551	Aug. 22	3396	768, 769	88	1444
Upholstery-pin	W. J. Kelly	617,988	Jan. 17	2144	478	86	457

Alphabetical list of inventions—Continued.

Invention.	Name.	No.	Date.	Monthly volume.		Official Gazette.	
				Spec.	Drg.	Vol.	Page.
Upper-folding machine	L. T. Adams	619,922	Feb. 21	2075	470	86	1257
Upper-stretching machine	F. P. Bullard	635,124	Oct. 17	2128	498 499	89	456
Urinal	W. H. Lloyd	628,205	July 4	462	110	88	92
Urinal	W. W. S. Orbeton	622,631	Apr. 4	796	185	87	151
Urinal spray-nozzle	W. U. Griffiths	639,971	Dec. 26	3297	755	89	2569
Urine-segregator	M. L. Harris	617,016	Jan. 3	293	65	86	59
Utensil. Combination	F. A. Holt	627,668	June 27	2724	597	87	2201
Uterine battery	C. H. L. Souder	635,004	Oct. 17	1880	447	89	407
Uterine curette	M. J. Palmer	618,521	Jan. 31	3181	702	86	681
Uterine supporter	W. H. Ludewig	637,627	Nov. 21	3058	632	89	1609
Vaccination appliances. Case for	R. M. Higgins	633,454	Sept. 19	2369	558	88	2199
Vaccine-carrier and case	R. Walsh	634,709	Oct. 10	1363	321	89	289
Vacuum-tank and water-lifter	L. L. Gross	625,882	May 30	3521	800	87	1464
Vacuum-tank and water-lifter	L. L. Gross	636,136	Oct. 31	4097	938	89	868
Valise	W. L. Miller and W. E. Nichols	619,495	Feb. 14	1286	295	86	1081
Valise for bicycles. Luggage-	W. B. Parsons	618,612	Jan. 31	3337	741	86	711
Valise-handle	G. Brown	622,324	Apr. 4	225	51	87	43
Valve	L. Aldrich	617,214	Jan. 3	668	155	86	130
Valve	F. M. Ashley	632,934	Sept. 12	1378	319	88	1993
Valve	J. F. Batchelor	620,829	Mar. 7	537	115	86	1607
Valve	J. F. Batchelor	631,146	Aug. 15	2643	598 599	88	1275
Valve	F. M. Bell	633,418	Sept. 19	2313	543	88	2188
Valve	S. P. Croswell	622,418	Apr. 4	390	90	87	72
Valve	T. H. Curtis	627,103	June 20	1652	361	87	1972
Valve	W. H. and J. J. Darragh, Jr	631,699	Aug. 22	3648	822	88	1495
Valve	G. Donat	625,437	May 23	2705	616	87	1286
Valve	J. A. Dyblie	639,673	Dec. 19	2743	630	89	2441
Valve	J. G. Ewing	635,761	Oct. 31	3346	774	89	720
Valve	L. Gasz	635,537	Oct. 24	2922	667	89	625
Valve	G. F. Godley	626,420	June 6	380	89	87	1688
Valve	F. W. Gordon	624,790	May 9	1532	349	87	1021
Valve	C. Gulland. (Reissue)	11,722	Mar. 14	1445	319	86	1794
Valve	W. Heston	621,082	Mar. 14	1029	225	86	1712
Valve	A. S. Hills	618,878	Feb. 7	111	24	86	826
Valve	C. R. Honiball	629,789	Aug. 1	49	13	88	730
Valve	C. E. Huxley	625,954	May 30	3651	829	87	1489
Valve	O. Kinner	624,821	May 9	1611	365	87	1036
Valve	R. L. Kjerner	630,360	Aug. 8	1192	262	88	973
Valve	F. W. Knupp	619,705	Feb. 14	1664	382	86	1152
Valve	A. T. Macfarlane and G. W. Bryant	619,589	Feb. 14	1428	328 329	86	1106
Valve	J. F. Marks	633,463	Sept. 19	2383	561	88	2201
Valve	C. A. Marrder	632,223	Aug. 29	4622	1042	88	1692
Valve	F. J. Martin	619,594	Feb. 14	1437	331 332	86	1108
Valve	N. McLeod	617,118	Jan. 3	497	119	86	98
Valve	P. Meehan and R. Gray	635,051	Oct. 17	1969	466	89	425
Valve	E. Monnier	632,502	Sept. 5	529	122	88	1812
Valve	C. E. Moreland	618,709	Jan. 31	3516	785	86	746
Valve	G. W. Mowry	626,550	June 6	602	138	87	1731
Valve	J. N. Murphy	622,969	Apr. 11	1412	325	87	288
Valve	J. O'Meara	623,418	Apr. 18	2256	517	87	471
Valve	H. Oliver	622,385	Apr. 4	316	73	87	60
Valve	P. H. Reardon	638,142	Nov. 28	4042	852	89	1823
Valve	J. H. Ring	637,161	Nov. 14	1802	386 387	89	1307
Valve	A. J. Robinson	622,267	Apr. 4	118	27	87	25
Valve	J. J. Rylands	622,083	Mar. 28	2861	645	86	2097
Valve	C. Seahorn	638,362	Dec. 5	345	72	89	1932
Valve	A. R. Shattuck	625,360	May 23	2571	585	87	1261
Valve	J. S. Smith	624,990	May 16	1906	427	87	1111
Valve	W. H. Smyth and P. H. Reardon	636,391	Nov. 7	279	62	89	977
Valve	J. Stone	633,626	Sept. 26	2706	630	88	2277
Valve	G. J. Thomas	627,448	June 20	2304	507	87	2102
Valve	J. and W. R. Thomas	617,616	Jan. 10	1433	327	86	298
Valve	J. Thummel	630,949	Aug. 15	2278	518	88	1204
Valve	C. W. Vollmann	623,194	Apr. 18	1855	425	87	389
Valve	H. H. Wheeler	635,214	Oct. 17	2289	534	89	485
Valve	D. S. Williams	627,561	June 27	2516	553	87	2160
Valve-action. Pneumatic	J. Wieser	639,477	Dec. 19	2390	550	89	2370
Valve-actuating device	J. F. Batchelor	633,415	Sept. 19	2308	542	88	2187
Valve-actuating mechanism	G. B. Petsche	620,171	Feb. 28	2510	571	86	1355
Valve. Air-	W. J. Cole	635,661	Oct. 24	3142	724	89	667
Valve. Air-	J. H. K. McCollum	621,841	Mar. 28	2421	541	86	2011
Valve. Air-	J. H. K. McCollum	623,029	Apr. 11	1522	352	87	310
Valve. Air-	H. A. Wood	619,526	Feb. 14	1335	307	86	1091
Valve. Air-brake	W. B. Mann	630,377	Aug. 8	1234	271	88	981
Valve. Air-brake dust-	J. McDougall and J. Perrie	622,522	Apr. 4	616	144	87	117
Valve. Air-brake triple	W. B. Mann	630,378	Aug. 8	1236	271	88	981
Valve. Air-brake triple	W. B. Mann	630,379	Aug. 8	1238	271	88	982
Valve. Air check-	G. E. Cordeau	623,135	Apr. 18	1736	401	87	366
Valve. Air-compressor	J. Hemphill	632,490	Sept. 5	511	117	88	1808
Valve. Air-motor	J. Craig, Jr	625,324	May 23	2505	569	87	1249
Valve. Air-motor reducing-	J. Craig, Jr	625,325	May 23	2508	570	87	1249
Valve. Air relief-	G. T. Prince	618,904	Feb. 7	147	32	86	834
Valve and alarm	F. Gray	625,161	May 16	2202	499 500	87	1165
Valve and cock	A. Kolben	625,338	May 23	2586	577	87	1254
Valve and muffler. Safety-	J. Hughes	631,370	Aug. 22	3050	691	88	1374
Valve and pump-governor. Reducing-	J. L. Chapman	626,594	June 6	672	155	87	1745
Valve and union. Combined	E. D. Abbott	618,971	Feb. 7	314	68	86	871
Valve and valve-gearing for explosion-engines	C. M. Johnson	630,057	Aug. 1	625	136 137	88	847

Alphabetical list of inventions—Continued.

Invention.	Name.	No.	Date.	Monthly volume. Spec.	Monthly volume. Dr'g.	Official Gazette. Vol.	Official Gazette. Page.
Valve. Annular slide	W. Sellers and W. Lewis	637,487	Nov. 21	2425	526, 527	89	1445
Valve apparatus	F. Gray	635,771	Oct. 31	3359	777	89	722
Valve apparatus	F. A. Littlefield	624,511	May 9	1046	235	87	925
Valve apparatus	F. A. Littlefield	624,512	May 9	1048	236	87	925
Valve. Automatic	J. H. Derby	625,748	May 30	3251	738	87	1412
Valve. Automatic	S. McElroy	621,362	Mar. 21	1536	341	86	1825
Valve. Automatic flush	F. E. Smith	627,357	June 20	2112	467	87	2064
Valve. Automatic tank	J. T. Morrison	638,740	Dec. 12	1053	236	89	2091
Valve. Automatic throttle	W. C. Miller	625,118	May 16	2137	485	87	1153
Valve. Balanced throttle	W. J. Healy	625,555	May 23	2908	661	87	1327
Valve. Ball	J. Douglas	619,732	Feb. 21	1731	395	86	1191
Valve. Ball check	J. Essex	628,779	July 11	1569	362	88	327
Valve. Blow-off	T. M. Eynon	617,150	Jan. 3	563	133	86	110
Valve. Boiler check	A. W. Cash	626,593	June 6	670	155	87	1744
Valve. Check	J. J. Locke	629,449	July 25	2783	646	88	598
Valve. Check	T. Waltz and W. Bell	628,999	July 18	1968	457	88	420
Valve. Combined relief and back-pressure	A. W. Cash	627,049	June 13	1550	339	87	1933
Valve, &c. Combined feed and stop	H. Schmidt and G. Leidenroth	635,148	Oct. 17	2178	508	89	464
Valve. Compressor	F. W. Gordon	622,344	Apr. 4	253	58	87	48
Valve. Compressor	F. W. Gordon	624,922	May 16	1786	402, 403	87	1088
Valve. Compressor	F. G. Hobart	626,064	May 30	3900	886	87	1534
Valve-controller	G. J. Schoeffel and J. J. Aylward	632,207	Aug. 29	4601	1037	88	1688
Valve-controlling device	J. F. Batchelor	624,890	May 9	1730	391	87	1059
Valve. Cut-off	C. A. Peterson	619,088	Feb. 7	548	116	86	917
Valve cut-off. Automatic	R. F. Lindsay	629,794	Aug. 1	58	15	88	732
Valve. Dash-pot	C. Dorn	619,680	Feb. 14	1605	367	86	1141
Valve device	P. K. Hardin	629,249	July 18	2409	558	88	504
Valve device	W. Kane	620,932	Mar. 14	734	162	86	1657
Valve device	J. Kelly	632,417	Sept. 5	371	84, 85	88	1779
Valve. Double throttle	E. H. Lunken and H. Ritter	635,104	Oct. 17	2086	490	89	448
Valve. Dry-service	F. Gray and C. D. Cox	626,654	June 6	788	180	87	1767
Valve. Electrically-operated gate	L. E. Walkins	631,263	Aug. 15	2860	645, 646	88	1320
Valve. Engine	H. L. Ide	628,179	July 4	418	98	88	85
Valve. Engine	A. G. Mather and F. T. Snyder	628,630	July 11	1298	303	88	271
Valve. Engine reversing	G. Gilmore	632,459	Sept. 5	457	102	88	1797
Valve. Engine reversing	A. Haferkamp	637,111	Nov. 14	1700	367	89	1287
Valve. Engineer's	W. B. Mann	630,384	Aug. 8	1255	274	88	984
Valve. Engineer's brake	J. V. Wells	621,590	Mar. 21	1939	434	86	1901
Valve. Expansion	A. Wilkinson	632,860	Sept. 12	1235	283	88	1968
Valve. Float	H. G. Tillinghast	633,351	Sept. 19	2189	514	88	2164
Valve float. Flushing-tank	A. Clarke	634,572	Oct. 10	1128	268	89	242
Valve. Fluid-pressure signal	H. R. Mason	620,601	Mar. 7	85	17	86	1519
Valve for air-brake systems	F. G. A. Fielitz	621,052	Mar. 14	982	214	86	1703
Valve for air-brake systems	W. Palmer, Jr	622,633	Apr. 4	801	186	87	152
Valve for basins or baths. Waste	L. M. Hooper	634,347	Oct. 3	727	173	89	146
Valve for engine-cylinders. Relief	A. Klay	637,994	Nov. 28	3740	786	89	1765
Valve for engines. Steam-actuated	W. N. Weinman	632,931	Sept. 12	1373	317	88	1992
Valve for fluid-pressure engines. Cylinder	J. M. Christie and R. Rock	636,718	Nov. 7	897	198, 199	89	1106
Valve for gasolene-engines. Oil	A. Winton	635,218	Oct. 17	2296	536	89	487
Valve for hydrants, &c	G. S. Walker	620,386	Feb. 28	2895	663	86	1428
Valve for hydrants. Waste	H. F. Neumeyer	628,023	July 4	115	24	88	24
Valve for inflation	J. H. Goss	629,786	Aug. 1	45	12	88	730
Valve for locomotive-engines. Overpass	C. J. Mellin	624,667	May 9	1311	293	87	977
Valve for motors. Controlling	J. G. Cooper	620,281	Feb. 28	2712	621, 622	86	1393
Valve for motors. Controlling	J. G. Cooper	620,282	Feb. 28	2713	622, 623	86	1393
Valve for pipes. Vent	J. Gruber	628,532	July 11	1100	256	88	232
Valve for power-driven tools	F. H. Cathcart	630,447	Aug. 8	1388	311	88	1007
Valve for steam-cylinders. Automatic drain	T. D. Smith	634,188	Oct. 3	378	97	89	78
Valve for steam-engines. Steam-regulator	W. J. H. Fresen	636,130	Oct. 31	4089	936	89	866
Valve for vessels containing carbonic acid	I. Qurin	633,217	Sept. 19	1927	453	88	2114
Valve. Fresh-air-inlet	P. Ayres	628,061	July 4	182	41	88	37
Valve. Gas-engine throttle	F. I. Hitchcock	625,767	May 30	3292	747	87	1420
Valve. Gas, steam, or water	L. H. and E. F. Freund and G. F. Kuett.	634,496	Oct. 10	985	236	89	215
Valve. Gate	W. E. Crist	627,394	June 20	2204	484	87	2082
Valve. Gate	H. N. Libbey	621,928	Mar. 28	2591	584	86	2042
Valve. Gate	E. L. Upson	623,265	Apr. 18	1985	455	87	416
Valve. Gate	W. K. H. Woerner and A. N. Heine	622,875	Apr. 11	1256	291	87	258
Valve-gear	F. Feldhaus	618,340	Jan. 24	2819	626	86	598
Valve-gear	D. Joy	620,780	Mar. 7	453	93, 94	86	1590
Valve-gear	L. A. Lang	621,829	Mar. 28	2401	536	86	2007
Valve-gear	L. A. Lang	637,345	Nov. 21	2177	469	89	1395
Valve-gear	L. A. Lang	637,346	Nov. 21	2178	469	89	1396
Valve-gear	J. A. Seymour	628,121	July 4	307	73	88	61
Valve-gear	C. Weller	635,625	Oct. 24	3086	708	89	657
Valve-gear	J. H. Woods	617,383	Jan. 10	1008	231	86	216
Valve-gear and governing mechanism for steam-engines.	J. B. Allfree	627,887	June 27	3112	681	87	2277
Valve-gear and governor mechanism for steam-engines.	J. B. Allfree	627,886	June 27	3109	681	87	2276
Valve-gear. Engine	F. X. Drolet	624,196	May 2	458	96	87	787
Valve-gear. Engine	A. Howard	617,528	Jan. 10	1267	288	86	267
Valve-gear. Engine	P. Parcells	616,959	Jan. 3	179	40, 41	86	36
Valve gear for engines. Cut-off	L. C. Lugmayr	636,271	Nov. 7	81	19	89	938
Valve-gear for gas or other motors. Electrically-controlled	D. W. Payne	623,821	Apr. 25	2995	686	87	632
Valve-gear for slide-valves	S. W. Wilkinson	626,261	June 6	74	18	87	1629
Valve-gear. Locomotive	L. A. Lang	621,828	Mar. 28	2400	536	86	2007
Valve-gear. Pumping-engine	H. L. Perrine	639,281	Dec. 19	2003	461	89	2292

Alphabetical list of inventions—Continued.

Invention.	Name.	No.	Date.	Monthly volume.		Official Gazette.	
				Spec.	Dr'g.	Vol.	Page.
Valve-gear. Reversible	A. G. Divet	618,068	Jan. 24	2318	517	86	505
Valve gear. Slide-	J. Damlos	639,023	Dec. 12	1545	355	89	2187
Valve. High-pressure	G. O. Newman	628,671	July 11	1380	323	88	287
Valve. Hydraulic	F. Wolfenden	617,667	Jan. 10	1525	346	86	317
Valve-indicator post	E. C. Wiley	630,278	Aug. 1	1000	221	88	920
Valve indicator. Sliding-	W. E. Crist	627,395	June 20	2206	485	87	2083
Valve. Inflating-	J. S. Hemenway	637,782	Nov. 28	3337	699	89	1684
Valve. Inflation-	J. C. MacSpadden	625,114	May 16	2131	484	87	1152
Valve. Inflation-	E. W. McCaslin	637,011	Nov. 14	1512	325	89	1252
Valve. Inflation-	C. B. Robuck	633,106	Sept. 12	1706	401	88	2057
Valve. Inflation-	F. L. Sowle and R. C. Hilton	636,465	Nov. 7	399	88	89	1001
Valve-locking mechanism. Automatically-releasing	O. T. Stantial	620,681	Mar. 7	254	52	86	1551
Valve mechanism	W. T. Davis	618,454	Jan. 31	3055	676	86	657
Valve mechanism	H. L. Marbach	631,650	Aug. 22	3565	804	88	1477
Valve mechanism	A. Shelburne	629,822	Aug. 1	112	27	88	742
Valve mechanism	G. E. Winslow	634,253	Oct. 3	531	134, 135	89	107
Valve mechanism. Air-brake	T. H. Haberkorn	621,076	Mar. 14	1016	223	86	1710
Valve mechanism. Air-brake	E. G. Shortt	634,960	Oct. 17	1792	426, 427	89	388
Valve mechanism and alarm. Thermostatically-actuating	A. Borden	637,073	Nov. 14	1622	351	89	1273
Valve mechanism. Automatic	R. Schlumberger	629,176	July 18	2288	532	88	482
Valve mechanism. Engine	J. T. Lindstrom	623,251	Apr. 18	1952	446, 447	87	409
Valve mechanism for engines	J. F. Mowatt	631,265	Aug. 15	2862	646	88	1320
Valve mechanism for motors, meters, &c	R. Barrie	630,643	Aug. 8	1752	393	88	1077
Valve mechanism. Steam-engine	F. N. Bushnell	622,603	Apr. 4	751	174	87	143
Valve mechanism. Triple-	G. W. Hayden	620,126	Feb. 28	2444	553	86	1342
Valve mechanism. Triple-	P. Synnestvedt	636,471	Nov. 7	411	91	89	1004
Valve Oil-can	H. C. Clapp and E. Lawson	635,658	Oct. 24	3138	723	89	667
Valve operating device	P. Hufeland	630,354	Aug. 8	1180	259	88	971
Valve operating device and alarm	A. Borden	634,744	Oct. 10	1425	336	89	300
Valve-operating gear	A. H. Krauss	623,915	Apr. 25	3178	732	87	667
Valve-operating mechanism	F. A. Burdett	622,114	Mar. 28	2927	664	86	2109
Valve-operating mechanism	G. A. Kelley	618,464	Jan. 31	3072	680	86	661
Valve-operating mechanism	J. H. Smith	625,363	May 23	2575	586	87	1262
Valve-operating mechanism. Steam-	F. N. Bushnell	616,892	Jan. 3	52	10	86	12
Valve or ball-cock. Float-	J. F. Miller	619,427	Feb. 14	1177	266	86	1058
Valve Piston-	H. L. Ide and H. Fernstrom	618,416	Jan. 31	2996	664	86	647
Valve Piston-	G. A. Mumford	637,010	Nov. 14	1510	325	89	1252
Valve Pneumatic	H. Leineweber	636,343	Nov. 7	189	42	89	959
Valve. Pneumatic-tool	J. Boyer	633,355	Sept. 19	2194	515	88	2165
Valve. Pop safety-	B. J. Downs	630,826	Aug. 8	2059	464	88	1139
Valve. Pressure-regulating	J. H. Hall	628,709	July 11	1445	336	88	301
Valve. Pressure-relief	G. T. Prince	618,903	Feb. 7	146	32	86	833
Valve. Reducing	G. F. Hughson	634,001	Oct. 3	40	12	89	11
Valve. Reducing-	F. W. Smith	621,864	Mar. 28	2467	551	86	2021
Valve. Reducing-	T. A. St. Clair	623,577	Apr. 25	2548	585	87	546
Valve. Reducing	S. M. Vauclain and G. R. Henderson	619,641	Feb. 14	1546	351, 352	86	1129
Valve. Regulating	J. Schneible	633,662	Sept. 26	2762	642	88	2289
Valve. Regulating-	J. Schneible	636,856	Nov. 14	1181	256	89	1188
Valve-regulating mechanism	J. W. Ledoux	635,863	Oct. 31	3545	815, 816	89	758
Valve-regulator	G. W. Lambert	626,171	May 30	4138	942	87	1578
Valve. Regulator-	G. T. Wilson and E. Webb	623,935	Apr. 25	3212	740	87	673
Valve-regulator for smoke-consumers	C. E. Briney	629,489	July 25	2867	666	88	613
Valve. Relief-	A. W. Cash	627,390	June 20	2194	482, 483	87	2080
Valve. Relief-	C. F. Hanson	620,769	Mar. 7	431	89	86	1585
Valve. Relief-	C. F. Hanson	620,770	Mar. 7	433	89	86	1586
Valve. Relief-	H. S. Ringi	639,435	Dec. 19	2315	534	89	2353
Valve. Relief-	J. Scott	637,037	Nov. 14	1556	335	89	1261
Valve. Retaining-	J. S. Lapish	637,134	Nov. 14	1759	378	89	1298
Valve. Reversible check-	G. M. Crump	631,036	Aug. 15	2450	556	88	1238
Valve. Reversing slide-	H. Damerell	628,396	July 4	835	195	88	159
Valve. Roller reciprocating	J. Stabe	637,835	Nov. 28	3440	719	89	1705
Valve. Rotary	J. B. Stage	630,124	Aug. 1	745	160	88	871
Valve. Rotary distributing-	C. H. Beadle	630,767	Aug. 8	1947	439	88	1115
Valve. Rotary steam-	R. Gillette	617,331	Jan. 10	902	209	86	195
Valve. Safety-	T. A. Bryan	633,421	Sept. 19	2319	546	88	2189
Valve. Safety-	F. Schreidt	635,149	Oct. 17	2179	508	89	465
Valve. Safety-	F. Schreidt	635,150	Oct. 17	2181	508, 509	89	465
Valve-seat surfacing-tool	C. H. Sapper	620,974	Mar. 14	826	181	86	1674
Valve. Self-closing	J. Cuthbertson	625,542	May 23	2882	655	87	1322
Valve. Sewer air-inlet	F. C. Keene	623,478	Apr. 18	2357	542	87	492
Valve. Slide-	T. R. Bailey	636,394	Nov. 7	283	63	89	978
Valve. Slide	C. C. Egbert	635,092	Oct. 17	2064	486, 487	89	444
Valve. Slide-	C. J. Mellin	621,931	Mar. 28	2595	585	86	2043
Valve. Steam-actuated	W. Voit	626,947	June 13	1371	301	87	1898
Valve. Steam and water	C. J. Gustafson	620,122	Feb. 28	2437	551	86	1340
Valve. Steam-engine reversing-	H. E. Brown	618,776	Jan. 31	3622	809, 810	86	768
Valve. Steam-engine reversing-	S. M. Coffman	618,839	Feb. 7	37	7, 8	86	811
Valve. Steam or other fluid actuated	J. B. Rhodes	639,288	Dec. 19	2016	465, 466	89	2295
Valve. Steam-radiator	C. J. Balthasar	619,264	Feb. 14	892	199	86	1002
Valve-stem safety attachment	W. W. Corey, Jr	622,912	Apr. 11	1313	302	87	268
Valve. Stop-	H Cochran	617,437	Jan. 10	1117	255	86	236
Valve. Straightway	E. H. Lunken	639,258	Dec. 19	1963	452	89	2284
Valve. Straightway	H. A. McGrory	629,086	July 18	2128	495	88	452
Valve. Straightway	J. Powell	627,140	June 20	1708	375	87	1983

Alphabetical list of inventions—Continued.

Invention.	Name.	No.	Date.	Monthly volume. Spec.	Monthly volume. Dr'g.	Official Gazette. Vol.	Official Gazette. Page.
Valve. Suction-	D. C. Demarest	625,292	May 16	2441	555	87	1209
Valve. Tank-	A. R. Dempster and W. D. Rinehart	639,218	Dec. 19	1895	437	89	2268
Valve. Tank outlet-	C. Birkery	635,461	Oct. 24	2795	638	89	601
Valve. Thermostat-	G. Scarfe	633,219	Sept. 19	1936	455	88	2115
Valve. Throttle-	H. Brinkmann	616,886	Jan. 3	29	6	86	8
Valve. Triple	B. Beasley	620,691	Mar. 7	282	57	86	1557
Valve. Triple	J. H. Farrell	626,601	June 6	684	158	87	1747
Valve. Triple	W. B. Mann	630,383	Aug. 8	1252	273, 274	88	984
Valve. Triple	J. V. Wells	620,201	Feb. 28	2580	586, 587	86	1366
Valve. Vacuum-	E. Chadwick	622,117	Mar. 28	2932	665	86	2110
Valve. Water and steam pipe	H. E. Jennison	637,264	Nov. 21	2009	431	89	1362
Valve. Water-gage-glass	S. Cook	624,184	May 2	442	91	87	784
Valve. Water-tank outlet-	R. M. Paul	629,464	July 25	2807	652	88	603
Valves. Apparatus for refitting disk	C. F. Hall	637,249	Nov. 21	1985	425	89	1357
Valves. Cut-out cock for engineers'	D. Brown	632,093	Aug. 29	4375	983	88	1644
Valves. Electromagnetic mechanism for actuating engine-	E. W. Naylor	625,792	May 30	3336	758	87	1429
Valves. Grinding in slide and triple	M. Limpert	623,921	Apr. 25	3188	733	87	668
Valves of water-cisterns. Closing device for	F. Wangelin	616,995	Jan. 3	246	57	86	49
Valves. Oil-distributing device for slide-	J. B. Kingan	629,081	July 18	2121	494	88	451
Valved can	W. H. Golding	635,379	Oct. 24	2590	601	89	560
Vanner	C. L. Carman	617,953	Jan. 17	2090	469	86	448
Vapor-burner	C. Dexter	626,986	June 13	1442	317	87	1912
Vapor-burner	F. P. Glazier	617,568	Jan. 10	1353	305	86	282
Vapor-burner	P. Grimm	623,012	Apr. 11	1494	346	87	305
Vapor-burner	H. M. Hamrick	629,356	July 25	2615	607	88	563
Vapor-burner	E. G. Martin	620,661	Mar. 7	226	46	86	1546
Vapor-burner	N. G. Ross	639,296	Dec. 19	2038	469	89	2299
Vapor-burner	E. J. Schauer	621,430	Mar. 21	1640	364	86	1845
Vapor-burner	W. Scott	633,617	Sept. 26	2693	627	88	2274
Vapor-burner	H. F. Smith	634,705	Oct. 10	1352	320	89	286
Vapor burner and stove	G. W. Woodward, J. W. Dunn, and R. Robertson.	626,745	June 13	959	217, 218	87	1818
Vapor-burner. Incandescent	F. A. Cortis	629,432	July 25	2750	639	88	592
Vapor-burner. Incandescent	H. Merkel	629,300	July 18	2490	581	88	519
Vapor-burner. Incandescent	J. A. Putt	623,738	Apr. 25	2811	643	87	596
Vapor-burner. Incandescent	J. A. Yarton	624,283	May 2	625	137	87	817
Vapor-burner. Self-generating	P. Glud and C. O. Nielsen	626,375	June 6	312	72	87	1674
Vapor-burning apparatus	A. Kitson	617,687	Jan. 10	1566	355	86	324
Vapor-burning apparatus	A. Kitson	621,966	Mar. 28	2674	602	86	2059
Vapor-burning apparatus	A. Kitson	624,823	May 9	1614	366	87	1037
Vapor-burning apparatus	A. Kitson	625,775	May 30	3304	750	87	1422
Vapor-burning apparatus	A. Kitson	626,282	June 6	117	30	87	1636
Vapor-burning apparatus	A. Kitson	632,492	Sept. 5	513	117	88	1808
Vapor-burning apparatus	A. Kitson	632,494	Sept. 5	518	118	88	1809
Vapor-burning apparatus	C. L. Newby	619,210	Feb. 7	782	170	86	965
Vapor-engine	E. L. Lowe	624,355	May 2	750	168	87	843
Vapor-tube cleaner	A. Kitson	632,493	Sept. 5	517	118	88	1809
Vapors. Apparatus for separating and recovering valuable	J. R. Whiting and W. A. Lawrence	622,936	Apr. 11	1357	312	87	277
Vaporizer	M. L. Cooper	631,952	Aug. 29	4109	922	88	1592
Vaporizer	H. M. Dunlap	620,895	Mar. 14	665	145	86	1645
Vaporizer	G. Gros	617,156	Jan. 3	572	134, 135	86	112
Vaporizer	H. D. Page	630,401	Aug. 8	1287	282	88	990
Vaporizer	B. S. Palmer	629,390	July 25	2675	624	88	577
Vaporizer	F. C. Robinson	618,907	Feb. 7	155	33	86	835
Vaporizer and burner. Hydrocarbon	C. C. Bruckner	635,465	Oct. 24	2803	640	89	603
Vaporizer. Facial	S. J. Deckard	622,209	Apr. 4	22	5	87	7
Vaporizing and burning hydrocarbon oils. Apparatus for	E. O. Daniels	623,519	Apr. 25	2435	558	87	526
Vaporizing apparatus. Toilet	W. W. Bateman	636,744	Nov. 14	991	211	89	1149
Vaporizing-tube	A. Kitson	632,495	Sept. 5	520	118	88	1810
Vaporizing-tube	A. Kitson	632,498	Sept. 5	523	119	88	1811
Vaporizing-tube	A. Kitson	635,554	Oct. 24	2954	675	89	631
Vaporizing-tube	A. Kitson	637,468	Nov. 21	2394	519	89	1439
Variable-diameter wheel	J. W. Tygard	618,966	Feb. 7	307	66, 67	86	870
Varnish and producing same. Drying-	A. P. Bjerregaard	629,331	July 25	2566	------	88	553
Varnish-can	W. H. Barber	629,977	Aug. 1	463	100	88	815
Varnish. Making	A. P. Bjerregaard	629,329	July 25	2563	------	88	553
Varnish. Manufacture of	A. J. Smith	631,679	Aug. 22	3617	815	88	1488
Varnishes. Imparting drying properties to	A. P. Bjerregaard	629,330	July 25	2565	------	88	553
Vat: *See* Dipping-vat. Tanning-vat.							
Vault. Burial-	J. W. Chamberlain	633,804	Sept. 26	3002	698	88	2337
Vault. Burial-	H. Root	634,123	Oct. 3	262	65	89	55
Vault-cover	B. Willard	637,841	Nov. 28	3450	720, 721	89	1707
Vault for subterranean conduits	C. G. Edwards and C. E. Phelps, Jr.	638,803	Dec. 12	1161	259	89	2113
Vault light or illumination-tile	J. Mark	629,197	July 18	2323	539	88	488
Vegetable-cutter	G. H. Brinser	634,494	Oct. 10	983	235	89	214
Vegetable-cutter	E. T. Clowe	628,763	July 11	1542	356	88	321
Vegetable-cutter	G. W. Cook	635,161	Oct. 17	2198	513	89	469
Vegetable-cutter	F. J. Domayer	639,847	Dec. 26	3074	706	89	2524
Vegetable-cutter	W. C. Freeman	634,289	Oct. 3	603	148	89	121
Vegetable-cutter	J. M. Lillpop	633,863	Sept. 26	3111	722	88	2359
Vegetable-cutter	W. R. Williams	630,155	Aug. 1	803	173	88	881
Vegetable-cutter feed mechanism	J. F. Rote	617,126	Jan. 3	512	122, 123	86	100
Vegetable juices. Decolorizing	J. C. Boot	633,785	Sept. 26	2978	------	88	2332
Vegetable-sorter	J. J. Budlong	621,788	Mar. 28	2322	522	86	1992
Vegetation. Compound for destroying	C. Harvesta	631,636	Aug. 22	3543	------	88	1473
Vehicle	C. H. Barrows	626,587	June 6	663	153	87	1743
Vehicle	B. C. Hicks	621,083	Mar. 14	1029	226	86	1712

Alphabetical list of inventions—Continued.

Invention.	Name.	No.	Date.	Monthly volume.		Official Gazette.	
				Spec.	Dr'g.	Vol.	Page.
Vehicle	J. Lindsey	617,172	Jan. 3	599	140	86	117
Vehicle	F. Menzer	640,007	Dec. 26	3356	768	89	2581
Vehicle	A. G. Powell	635,977	Oct. 31	3765	869	89	801
Vehicle	C. Vanneste	621,438	Mar. 21	1657	366	86	1847
Vehicle attachment	A. W. Gray	632,050	Aug. 29	4297	966	88	1629
Vehicle attachment and holding device	S. Wyatt	626,801	June 13	1071	242	87	1840
Vehicle. Automobile	J. F. T. Conti	629,064	July 18	2082	485	88	443
Vehicle. Automobile	F. L. and L. H. Dyer	639,541	Dec. 19	2488	574, 575, 576	89	2389
Vehicle. Automobile	M. F. McAnelly and E. F. Williams	620,166	Feb. 28	2504	569, 570	86	1354
Vehicle. Automobile	H. B. Steele	627,359	June 20	2115	468, 469, 470	87	2065
Vehicle-bed. Folding	T. Lotherington	628,948	July 18	1878	436	88	402
Vehicle-body	T. R. Carskadon	630,032	Aug. 1	581	127	88	838
Vehicle-body	F. Menzer	622,962	Apr. 11	1405	322	87	287
Vehicle-body	F. Menzer	630,724	Aug. 8	1879	424	88	1101
Vehicle-body	F. Menzer	635,173	Oct. 17	2211	516	89	471
Vehicle-body	F. N. Young and F. E. Thompson	618,634	Jan. 31	3376	752	86	718
Vehicle-body hanger	G. T. Chatterton	628,759	July 11	1534	355	88	320
Vehicle-body hanger	J. J. Fetzer	635,718	Oct. 24	3240	747	89	688
Vehicle-body loop	W. H. Bowe	639,013	Dec. 12	1531	351	89	2184
Vehicle-body loop	W. Fetzer	635,763	Oct. 31	3349	774	89	720
Vehicle-body-supporting device	J. A. Jansson	623,787	Apr. 25	2941	671, 672	87	621
Vehicle holster-stake	T. G. Mandt	619,083	Feb. 7	540	114	86	915
Vehicle-brake	M. N. Collins	633,231	Sept. 19	1957	459	88	2119
Vehicle-brake	F. P. Eddy	630,871	Aug. 15	2135	484	88	1177
Vehicle-brake	C. J. Ehbets	637,771	Nov. 28	3318	694	89	1679
Vehicle-brake	A. P. Howell	630,702	Aug. 8	1847	416	88	1095
Vehicle-brake	A. Knutsen	618,106	Jan. 24	2386	533	86	517
Vehicle-brake	L. J. Miller and W. McDonough	624,064	May 2	206	45	87	742
Vehicle-brake	J. C. Stinson	621,508	Mar. 21	1795	399, 400	86	1873
Vehicle-brake	J. B. Treat	619,057	Feb. 7	495	104	86	906
Vehicle brake and step. Combined	N. Burkart	632,779	Sept. 12	1088	252	88	1938
Vehicle brake apparatus	L. Rémondy and P. Hallot	632,146	Aug. 29	4483	1010	88	1667
Vehicle-brake. Automatic	J. R. Mercer	622,378	Apr. 4	307	71	87	59
Vehicle brake. Two-wheeled	W. Madder	620,788	Mar. 7	467	96, 97	86	1593
Vehicle chafe-iron	G. T. Chatterton	621,226	Mar. 14	1289	285	86	1765
Vehicle-clamp	H. C. Swan	626,877	June 13	1254	275	87	1875
Vehicle clutch. Motor	W. E. Gibbs	634,292	Oct. 3	606	149	89	121
Vehicle controlling mechanism	E. A. V. Kendall	637,127	Nov. 14	1746	374	89	1296
Vehicle-coupling	D. J. Sinclair	617,196	Jan. 3	636	148	86	125
Vehicle-coupling	W. I. Wolverton	635,627	Oct. 24	3090	709	89	658
Vehicle-coupling	W. I. Wolverton	635,628	Oct. 24	3091	709	89	658
Vehicle coupling device	J. Planes	624,678	May 9	1334	297	87	981
Vehicle-door	R. Heinzelman	630,223	Aug. 1	910	200	88	902
Vehicle draft apparatus	W. G. Davis	623,705	Apr. 25	2764	633	87	587
Vehicle draft attachment	T. Jones	625,773	May 30	3302	749	87	1422
Vehicle draft attachment	A. Oliphant	623,815	Apr. 25	2984	683	87	630
Vehicle driving-gear. Motor	L. Mathieu	635,171	Oct. 17	2209	515	89	471
Vehicle driving mechanism	H. P. Maxim, H. M. Pope, and H. W. Alden	621,532	Mar. 21	1841	409	86	1882
Vehicle driving mechanism	W. E. Wentzel and G. E. Whitney	636,701	Nov. 7	850	189	89	1095
Vehicle driving mechanism. Motor	G. Mees	634,827	Oct. 10	1560	367	89	326
Vehicle driving-wheel. Motor	C. M. Johnson	622,235	Apr. 4	63	15	87	16
Vehicle. Dumping	H. Cooper	618,495	Jan. 31	3136	693	86	673
Vehicle. Dumping	T. Hill	618,007	Jan. 17	2176	486	86	462
Vehicle. Dumping	T. Hill	625,765	May 30	3287	745	87	1419
Vehicle. Electric	T. B. Entz	636,964	Nov. 14	1411	302	89	1232
Vehicle. Electric	T. B. Entz	636,965	Nov. 14	1412	302	89	1232
Vehicle. Electric	K. Knudsen. (Reissue)	11,724	Mar. 14	1448	320	86	1795
Vehicle. Electric	W. M. McDougall	627,133	June 20	1701	373	87	1982
Vehicle. Electric	W. F. Zimmermann	628,514	July 11	1067	248	88	225
Vehicle. Electrically-driven	H. Van Hoevenbergh	628,967	July 18	1909	444	88	409
Vehicle. Electrically-propelled	R. M. Hunter	629,079	July 18	2116	492, 493	88	450
Vehicle. Electrically-propelled	R. M. Hunter	638,966	Dec. 12	1436	329	89	2167
Vehicle. Electrically-propelled	L. Krieger. (Reissue)	11,780	Oct. 31	4279	982, 983	89	904
Vehicle. Electrically-propelled road	O. Patin	623,820	Apr. 25	2993	685, 686	87	632
Vehicle fan attachment	F. Krause and R. C. Brachhausen	624,222	May 2	505	108	87	796
Vehicle-fender	J. P. Müller	636,832	Nov. 14	1146	246, 247	89	1180
Vehicle-frame	T. Hill	627,416	June 20	2249	496	87	2091
Vehicle frame. Motor	H. F. Eastman	630,976	Aug. 15	2342	533, 534	88	1217
Vehicle-frames, &c., with protected surfaces. Providing	C. F. Church	633,306	Sept. 19	2081	488	88	2143
Vehicle-gear. Changeable	E. H. Hodgkinson	619,572	Feb. 14	1408	323, 324	86	1103
Vehicle-gear. Short-turning	O. H. Hesse	622,623	Apr. 4	783	182	87	149
Vehicle-gearing. Changeable	E. H. Hodgkinson	617,572	Jan. 10	1358	306, 307	86	283
Vehicle gearing. Motor	L. B Smyser	617,819	Jan. 17	1843	412	86	398
Vehicle-guard	J. M. Roach	625,807	May 30	3376	766	87	1436
Vehicle handle-bar	J. M. Marty, Jr	637,517	Nov. 21	2481	538	89	1455
Vehicle-heater and street-lighter	G. Slater	634,674	Oct. 10	1294	305	89	275
Vehicle indicating and recording apparatus	E. Faye and G. S. J. B. Bochet	620,903	Mar. 14	677	148, 149, 150	86	1648
Vehicle. Manually-propelled	J. S. Lamar	626,620	June 6	710	164	87	1753

Alphabetical list of inventions—Continued.

Invention.	Name.	No.	Date.	Monthly volume. Spec.	Monthly volume. Drg.	Official Gazette. Vol.	Official Gazette. Page.
Vehicle. Motor-	L. Bénier	618,637	Jan. 31	3381	752	86	719
Vehicle. Motor-	G. V. L. Chauveau	627,842	June 27	3029	661 662	87	2262
Vehicle. Motor-	A. de Dion and G. Bouton	617,984	Jan. 17	2134	477 478	86	456
Vehicle. Motor-	C. M. Dissosway	633,283	Sept. 19	2045	480	88	2136
Vehicle. Motor-	J. N. Forhes	624,319	May 2	693	153	87	833
Vehicle. Motor-	J. L. Glazier	617,332	Jan. 10	905	210 211	86	195
Vehicle. Motor-	W. W. Grant	638,331	Dec. 5	271	56, 57	89	1918
Vehicle. Motor-	J. D. Humphrey	627,503	June 27	2407	528	87	2138
Vehicle. Motor-	E. H. Korsmeyer	636,049	Oct. 31	3899	895 896	89	829
Vehicle. Motor-	L. Krieger	633,763	Sept. 26	2942	683	88	2324
Vehicle. Motor-	H. J. Lawson	633,014	Sept. 12	1503	349 350 351	88	2018
Vehicle. Motor-	C. E. Newman	633,032	Sept. 12	1543	395	88	2025
Vehicle. Motor-	M. J. O'Donnell	637,015	Nov. 14	1521	327	89	1254
Vehicle. Motor-	J. W. Ogden	637,750	Nov. 21	3280	684 685	89	1653
Vehicle. Motor-	B. L. Peck	638,029	Nov. 28	3822	804	89	1781
Vehicle. Motor-	J. Pender	637,658	Nov. 21	3110	644 645	89	1618
Vehicle. Motor-	E. J. Pennington	627,523	June 27	2438	536 537	87	2145
Vehicle. Motor-	L. J. Phelps	629,521	July 25	2940	684	88	628
Vehicle. Motor-	F. A. Pocock	623,383	Apr. 18	2191	503	87	457
Vehicle. Motor-	G. F. Reed	637,665	Nov. 21	3124	648	89	1621
Vehicle. Motor-	F. H. Richards	633,157	Sept. 19	1807	425 426	88	2088
Vehicle. Motor-	A. L. Riker	620,968	Mar. 14	814	179 180	86	1672
Vehicle. Motor-	A. L. Riker	623,037	Apr. 11	1535	355	87	313
Vehicle. Motor-	A. L. Riker. (Reissue)	11,760	July 18	2547	593	88	531
Vehicle. Motor-	G. L. Rohy	619,505	Feb. 14	1303	299 300	86	1085
Vehicle. Motor-	W. S. Schuyler	624,689	May 9	1350	301 302	87	985
Vehicle. Motor-	C. Sterling	618,915	Feh. 7	165	36 37 38	86	837
Vehicle. Motor-	H. Stommel	626,735	June 13	945	214 215	87	1816
Vehicle. Motor-	C. E. Woods	619,527	Feh. 14	1337	307	86	1091
Vehicle. Motor-driven	C. T. B. Sangster	632,474	Sept. 5	480	109 110 111	88	1802
Vehicle. Motor road-	H. C. Hart	623,149	Apr. 18	1771	407	87	372
Vehicle motor-wheel	J. W. Walters	624,414	May 2	854	192	87	865
Vehicle motor-wheel	J. W. Walters	635,620	Oct. 24	3075	705 706 707	89	655
Vehicle mud-guard	D. Warner	624,713	May 9	1400	313	87	995
Vehicle or truck side frame	F. S. Seagrave	632,541	Sept. 5	617	142	88	1829
Vehicle pneumatic brake and motor	F. Burger	624,451	May 9	927	207	87	903
Vehicle-propeller and power-transmitting machine. Combined	D. W. Mendenhall	631,806	Aug. 29	3867	862 863	88	1544
Vehicle-propelling mechanism	B. Tucker	619,637	Feb. 14	1536	350	86	1127
Vehicle-rack	A. L. Bucher	636,949	Nov. 14	1388	295 296	89	1227
Vehicle rain-apron	J. A. Sommers	620,680	Mar. 7	253	52	86	1551
Vehicle-runner	C. S. Saxton	637,166	Nov. 14	1814	390	89	1309
Vehicle running-gear	C. F. Burns	619,539	Feb. 14	1355	311	86	1094
Vehicle running-gear	F. V. Gifford	618,225	Jan. 24	2621	579	86	560
Vehicle running-gear	R. W. Jamieson	636,999	Nov. 14	1491	321	89	1248
Vehicle running-gear	J. H. McCahe	630,256	Aug. 1	967	212	88	913
Vehicle running-gear	C. A. McNaughton	634,993	Oct. 17	1864	442	89	404
Vehicle running-gear	L. L. Nichols	617,935	Jan. 17	2059	462	86	442
Vehicle running-gear	G. Thomas	624,264	May 2	586	125	87	810
Vehicle running-gear	J. H. Warren	634,597	Oct. 10	1164	277	89	249
Vehicle running-gear. Automohile-	G. S. Strong	637,296	Nov. 21	2072	444	89	1374
Vehicle running-gear. Motor-	J. W. Eisenhuth	631,627	Aug. 22	3528	795	88	1470
Vehicle sand-hand	A. Lachapelle	623,791	Apr. 25	2944	673	87	622
Vehicle-seat. Auxiliary	J. H. Byrne	619,666	Feb. 14	1582	361	86	1136
Vehicle. Self-propelled	E. J. Pennington	626,294	June 6	135	34	87	1639
Vehicle. Self-propelling	R. H. Plass	631,437	Aug. 22	3174	720 721	88	1399
Vehicle. Self-propelling	R. H. Plass	631,438	Aug. 22	3175	721 722	88	1400
Vehicle. Self-propelling	R. H. Plass	632,278	Sept. 5	140	31	88	1735
Vehicle. Self-propelling	R. H. Plass	634,067	Oct. 3	140	36, 37	89	32
Vehiclesignaling and controlling apparatus. Motor-	W. R. Wynne	631,917	Aug. 29	4050	909	88	1580
Vehicle sleigh attachment	J. E. G. Geisel	627,995	July 4	71	13	88	15
Vehicle spindle attachment	O. F. Skinner	630,995	Aug. 15	2367	539	88	1222
Vehicle-spring	W. C. Holland	619,748	Feh. 21	1753	401	86	1195
Vehicle-spring	W. H. Lewis and H. L. Littell	625,176	May 16	2228	506	87	1170
Vehicle-spring	R. Mulholland	620,718	Mar. 7	332	68	86	1566
Vehicle-spring	C. L. Thomas	633,225	Sept. 19	1949	458	88	2118
Vehicle. Spring-	H. A. Moyer	628,720	July 11	1459	339	88	304
Vehicle-spring. Elliptic	S. C. Hitchcock	624,033	May 2	152	34	87	732
Vehicle-standard	T. R. Carskadon	630,858	Aug. 15	2114	480	88	1173
Vehicle steering apparatus. Motor-	J. Canellopoulos	635,654	Oct. 24	3134	721 722	89	666
Vehicle steering-gear	H. G. Underwood	634,514	Oct. 10	1021	243 244	89	221

Alphabetical list of inventions—Continued.

Invention.	Name.	No.	Date.	Monthly volume. Spec.	Monthly volume. Dr'g.	Official Gazette. Vol.	Official Gazette. Page.
Vehicle-step	J. D. Thomas	637,184	Nov. 14	1853	398	89	1315
Vehicle-step	R. H. and I. B. Wolfe	634,385	Oct. 3	786	188	89	156
Vehicle-step. Ruhher	C. H. Wheeler and F. W. Kremer	633,540	Sept. 19	2510	589	88	2225
Vehicle storm-front	S. H. Blakely	626,964	June 13	1400	309	87	1903
Vehicle tilting seat	G. Eyer, Jr	628,979	July 18	1927	449	88	412
Vehicle-top	D. Shivell	623,186	Apr. 18	1844	422, 423	87	387
Vehicle-tops. Device for fastening curtains to	N. J. Bottger	624,746	May 9	1453	328	87	1006
Vehicle truck. Motor-	W. C. Barr	618,244	Jan. 24	2655	587, 588	86	567
Vehicle-washer. Overhead	J. P. Baird	624,423	May 2	871	196	87	868
Vehicle-washing hose. Cut-off device for	J. P. Baird	624,422	May 2	869	196	87	868
Vehicle. Water-	D. Oltmann	632,276	Sept. 5	136	29	88	1734
Vehicle-wheel	A. A. Bishop	622,593	Apr. 4	739	171	87	140
Vehicle-wheel	R. L. Breth	635,228	Oct. 17	2310	538	89	490
Vehicle-wheel	G. A. Burwell	622,602	Apr. 4	749	174	87	142
Vehicle-wheel	H. Campkin	628,755	July 11	1527	353	88	318
Vehicle-wheel	C. D. Cannon	626,591	June 6	667	154	87	1744
Vehicle-wheel	F. Case	619,669	Feb. 14	1589	363	86	1137
Vehicle-wheel	C. F. Church	635,657	Oct. 24	3136	723	89	667
Vehicle-wheel	H. R. Collins	625,645	May 23	3060	697	87	1357
Vehicle-wheel	A. T. Colton	634,718	Oct. 10	1382	325	89	293
Vehicle-wheel	J. Doyle	634,614	Oct. 10	1197	283	89	255
Vehicle-wheel	A. E. Elliott	623,240	Apr. 18	1930	442	87	404
Vehicle-wheel	A. Gerstner	631,294	Aug. 22	2914	660	88	1317
Vehicle-wheel	O. L. Grimsrud	621,658	Mar. 21	2060	461	86	1926
Vehicle-wheel	J. A. Heany	619,408	Feb. 14	1135	256, 257	86	1051
Vehicle-wheel	J. A. Heany	624,209	May 2	485	104	87	792
Vehicle-wheel	I. Henderson	623,015	Apr. 11	1500	347	87	306
Vehicle-wheel	H. A. House, Jr	632,463	Sept. 5	461	104	88	1798
Vehicle-wheel	W. Hulslander	624,038	May 2	158	35	87	733
Vehicle-wheel	C. A. Hussey	623,372	Apr. 18	2176	499	87	454
Vehicle-wheel	W. C. Jones	626,428	June 6	395	93, 94	87	1691
Vehicle-wheel	J. H. Judge	635,687	Oct. 24	3191	735	89	677
Vehicle-wheel	T. E. Kellogg	625,687	May 23	3120	709	87	1368
Vehicle-wheel	W. W. Kitchen	623,405	Apr. 18	2230	511	87	465
Vehicle-wheel	F. Latimer	624,950	May 16	1842	414	87	1098
Vehicle-wheel	W. L. Moro	620,482	Feb. 28	3043	696	86	1456
Vehicle-wheel	T. Pinard	625,200	May 16	2263	515	87	1177
Vehicle-wheel	A. L. Pruitt	637,030	Nov. 14	1545	332	89	1259
Vehicle wheel	M. Ross	626,724	June 13	927	210	87	1812
Vehicle-wheel	A. Schuch	628,213	July 4	472	113	88	94
Vehicle-wheel	H. J. Shawcross	619,846	Feb. 21	1946	442	86	1234
Vehicle-wheel	S. H. Van Trump and F. D. Rowell	620,200	Feb. 28	2578	586	86	1366
Vehicle-wheel	C. E. Wingate	629,117	July 18	2188	507	88	464
Vehicle-wheel brake	V. Willits	625,284	May 16	2423	549	87	1207
Vehicle-wheel brake	V. Willits	625,285	May 16	2426	549	87	1207
Vehicle-wheel. Elastic	J. H. Peterson	627,593	June 27	2588	570	87	2174
Vehicle-wheel. Metallic	E. D. Wassell	625,000	May 16	1919	430	87	1114
Vehicle. Wheeled	H. Nevill	638,133	Nov. 28	4024	847, 848	89	1820
Vehicles. Balance mechanism for wheeled	D. Murphy	624,847	May 9	1057	375	87	1045
Vehicles. Brake and power apparatus for electrically-driven	W. E. Pearson	634,832	Oct. 10	1571	369, 370	89	329
Vehicles by electricity. Means for propulsion of	F. J. Newman and J. Ledwinka	638,643	Dec. 5	857	186, 187	89	2031
Vehicles. Controller for electrically-propelled	E. B. W. Reichel	624,250	May 2	565	120	87	807
Vehicles. Controlling of electric-motor	H. Leitner	632,874	Sept. 12	1282	294, 295	88	1974
Vehicles. Device for automatically regulating supply of liquid fuel to boilers of automobile	J. H. Bullard	638,495	Dec. 5	594	123	89	1980
Vehicles. Device for steering motor-driven	E. J. Pennington	626,296	June 6	138	35	87	1640
Vehicles. Driving mechanism for self-propelled	J. Craig, Jr	633,687	Sept. 26	2814	654, 655	88	2298
Vehicles. Electric device for propelling and controlling	R. M. Hunter	625,953	May 30	3647	829	87	1487
Vehicles. Electric propulsion of	F. W. Schneider	617,192	Jan. 3	630	147	86	123
Vehicles. Electric propulsion of railway, tramway, or other similar	J. J. Heilmann	622,144	Mar. 28	2989	675, 676	86	2123
Vehicles. Liquid-carbonic-acid motive power for	E. G. Rassinier	617,049	Jan. 3	375	91	86	72
Vehicles. Means for uniting parts of	O. Morrill and H. P. Wells	628,891	July 11	1762	412	88	363
Vehicles for assisting propulsion. Mechanism for utilizing bumping of	G. B. H. Austin	622,101	Mar. 28	2897	654	86	2104
Vehicles off car-tracks. Device for assisting	J. H. and D. W. Brown	622,036	Mar. 28	2791	629	86	2083
Vehicles or cars. Balance for undercarriages of	D. Murphy	620,952	Mar. 14	773	109	86	1664
Vehicles Positioning apparatus for motor-	G. H. Condict	635,300	Oct. 24	2446	569	89	532
Vehicles. Power-transmitting mechanism for motor-	C. and H. Roe and H. Knight	625,808	May 30	3378	767	87	1436
Vehicles. Reversing-gear for motor-	F. Stutzman	630,471	Aug. 8	1443	322	88	1018
Vehicles. Runner attachment for wheeled	A. J. Boyd	621,745	Mar. 21	2239	505	86	1961
Vehicles. Safety attachment for propelled	J. P. Müller	635,941	Oct. 31	3690	852, 853	89	787
Vehicles. Safety controller-lever for automobile	A. L. Riker	624,685	May 9	1346	300	87	984
Vehicles. Speed-regulating, starting, stopping, reversing, and steering mechanism for motor-	A. Paget	627,201	June 20	1813	397, 398	87	2004
Vehicles. Speed-varying and steering device for motor-	E. Draullette and E. Catois	633,234	Sept. 19	1960	460	88	2120
Vehicles. Switch for electrically-propelled	P. H. White	638,859	Dec. 12	1249	282	89	2129
Vehicles. System and apparatus for controlling	E. A. Sperry	635,816	Oct. 31	3449	794, 795	89	741
Vehicles. System and apparatus for controlling electric	E. A. Sperry	635,815	Oct. 31	3440	794	89	739
Vehicles. Transmission-gear for motor	W. Cook	626,967	June 13	1404	310	87	1904
Veil-fastener	M. H. Carter	634,878	Oct. 17	1667	392	89	364
Veil-fastener	E. Gordon	621,068	Mar. 14	1004	220	86	1707

Alphabetical list of inventions—Continued.

Invention.	Name.	No.	Date.	Monthly volume. Spec.	Monthly volume. Dr'g.	Official Gazette. Vol.	Official Gazette. Page.
Veils to hats. Device for securing	H. Engel	637,503	Nov. 21	2457	533	89	1451
Velocipede	E. J. Dunn	632,809	Sept. 12	1146	264	88	1949
Velocipede	W. H. Fauber	624,635	May 9	1264	282	87	967
Velocipede	T. H. Gledhill	638,235	Dec. 5	53	13	89	1877
Velocipede	C. W. Hathaway	629,293	July 18	2480	578	88	517
Velocipede	W. Johnson	627,335	June 20	2068	456	87	2057
Velocipede	E. G. Latta	638,343	Dec. 5	296	61	89	1923
Velocipede	J. Lundén	624,334	May 9	1636	370	87	1041
Velocipede	D. Marcus	620,790	Mar. 7	470	97	86	1593
Velocipede	G. T. Smallwood	628,614	July 11	1232	287, 288	88	258
Velocipede	J. M. H. Venour	634,043	Oct. 3	104	27	89	24
Velocipede and carrier	M. E. and C. C. Blood	625,377	May 23	2596	591	87	1266
Velocipede-bearing	E. G. Latta	639,410	Dec. 19	2266	523	89	2345
Velocipede. Cable-	J. W. Hutchinson	639,240	Dec. 19	1938	446, 447	89	2278
Velocipede crank-bracket	J. B. Halifax	637,385	Nov. 21	2252	485	89	1411
Velocipede-crank. Extensible	J. S. Copeland	634,573	Oct. 10	1129	268	89	242
Velocipede crank-shaft	F. C. Atherton	634,256	Oct. 3	540	135	89	108
Velocipede crank-shaft	E. G. Latta	638,021	Nov. 28	3803	799	89	1777
Velocipede driving-gear	J. A. Reed	617,603	Jan. 10	1414	321	86	293
Velocipede driving mechanism	T. Grace	636,658	Nov. 7	777	170	89	1079
Velocipede fork-crown	F. A. Cook	624,182	May 2	437	90	87	783
Velocipede-frame	D. H. Miller	635,896	Oct. 31	3620	834	89	774
Velocipede-gear	D. H. Miller	623,680	Apr. 25	2722	624	87	579
Velocipede gear-case	P. Hunaeus	617,575	Jan. 10	1366	309, 310	86	284
Velocipede handle-bar	R. E. Sherman	638,427	Dec. 5	464	95	89	1955
Velocipede. Ice-	W. Guay	638,575	Dec. 5	724	155	89	2005
Velocipede. Ice-	G. Meyer	618,251	Jan. 24	2665	590	86	569
Velocipede. Ice-	E. Rengert	621,137	Mar. 14	1138	246	86	1734
Velocipede. Land and marine	J. C. Young, Jr	619,818	Feb. 21	1889	431	86	1121
Velocipede. Marine	C. Clark	637,547	Nov. 21	2545	551	89	1468
Velocipede or bicycle lamps. Support for brackets or holders for	F. L. White	635,067	Oct. 17	1997	472	89	430
Velocipede-pedal	E. Germaine	623,399	Apr. 18	2221	509	87	463
Velocipede-pedal toe-clip	W. J. Grotenhuis	618,937	Feb. 7	233	53	86	849
Velocipede propelling mechanism	G. Hess	618,094	Jan. 24	2366	528	86	513
Velocipede-saddle	H. Blossom	620,881	Mar. 14	640	140, 141	86	1640
Velocipede-saddle	W. Radermacher	633,487	Sept. 19	2421	570	88	2209
Velocipede-saddle clip	W. J. Sturgess	624,572	May 9	1159	260	87	947
Velocipede seat-post cluster	J. B. Halifax	637,386	Nov. 21	2253	485	89	1411
Velocipede seat-support	C. Worthington	633,177	Sept. 19	1842	433	88	2096
Velocipede. Snow or ice	V. Johnson	618,037	Jan. 17	2241	499	86	475
Velocipede. Snow or ice	C. J. Nilson	627,653	June 27	2697	592	87	2196
Velocipede. Water-	A. Rasmussen	619,224	Feb. 7	804	175	86	970
Velocipedes. Automatic variable driving-gear for	A. F. A. Roxendorff	636,184	Oct. 31	4183	960	89	886
Velocipedes, &c. Driving-back for	E. B. Killen	636,222	Oct. 31	4251	977	89	899
Velocipedes, &c. Path for driving-chains of	B. Ljungström	631,219	Aug. 15	2763	625, 626	88	1300
Velocipedes. Variable-throw crank for	A. G. Mumford and A. Anthony	620,164	Feb. 28	2502	569	86	1353
Vending and display apparatus. Coin-controlled	L. W. Yaggy	620,690	Mar. 7	272	55, 56, 57	86	1555
Vending apparatus	M. S. Cody	630,661	Aug. 8	1783	402, 403	88	1082
Vending apparatus	M. S. Cody	632,485	Sept. 5	499	114	88	1805
Vending apparatus	E. H. Cook	627,685	June 27	2753	603, 604	87	2206
Vending apparatus	H. S. Worthington	632,080	Aug. 29	4353	978	88	1639
Vending apparatus. Coin-controlled	C. W. Bankes	638,376	Dec. 5	366	76, 77	89	1936
Vending apparatus. Coin-controlled	B. W. Scott	633,966	Sept. 26	3287	766	88	2394
Vending apparatus. Coin-controlled	A. D. Smith	625,812	May 30	3385	768, 769	87	1437
Vending apparatus. Coin-operated	M. B. Mills	631,119	Aug. 15	2602	587, 588	88	1267
Vending apparatus. Liquid-	F. S. Percy	636,171	Oct. 31	4157	954	89	881
Vending apparatus. Prepayment	F. E. Morgan and F. A. Lane	637,401	Nov. 21	2277	490, 491	89	1416
Vending-machine	E. H. Cook	627,684	June 27	2749	602, 603	87	2206
Vending-machine	G. E. Ford	636,652	Nov. 7	761	166, 167	89	1075
Vending-machine	W. L. Harris	631,488	Aug. 22	3270	744, 745	88	1418
Vending-machine	J. G. Hollands	629,505	July 25	2910	677	88	622
Vending-machine	A. and O. Jaeger	627,505	June 27	2410	529, 530	87	2139
Vending-machine	W. H. Murphy	621,614	Mar. 21	1980	442	86	1909
Vending-machine	F. F. Pulver	625,803	May 30	3370	765	87	1435
Vending-machine. Coin-actuated	E. H. Cook	627,683	June 27	2748	602	87	2205
Vending-machine. Coin-controlled	G. Raab and D. Appel	636,841	Nov. 14	1160	251	89	1183
Vending-machine. Coin-controlled	W. Tribble	621,182	Mar. 14	1206	263, 264	86	1748
Vending-machine. Coin-controlled	N. I. Woolsey	628,510	July 11	1047	245	88	222
Vending-machine. Coin-controlled	W. W. Wright	620,527	Feb. 28	3120	713, 714, 715	86	1471
Vending machine. Coin-controlled newspaper-	D. Sullivan	625,428	May 23	2684	611, 612	87	1283
Vending machine. Gas or liquid	J. Coons	621,961	Mar. 28	2654	598	86	2055
Vending machine. Gas or liquid	P. C. Shaffer	622,826	Apr. 11	1153	266	87	237
Veneer coiling and nailing machine	G. A. Gage	628,085	July 4	231	53	88	47
Veneer. Corrugated wood	H. J. Mark	627,756	June 27	2877	629	87	2233
Vent and backwater coupling	H. Sieben	622,720	Apr. 11	971	226	87	204

Alphabetical list of inventions—Continued.

Invention.	Name.	No.	Date.	Monthly volume. Spec.	Monthly volume. Dr'g.	Official Gazette. Vol.	Official Gazette. Page.
Vent. Automatic air-	G. F. Smith	618,913	Feb. 7	163	35	86	827
Ventilating apparatus	F. P. Donahey	618,562	Jan. 31	3253	723	86	695
Ventilating apparatus. House	J. Wörz	621,551	Mar. 21	1885	417, 418	86	1890
Ventilating appliance	J. Leather	634,301	Oct. 3	624	152	89	125
Ventilating cars, &c. Device for	L. White	621,627	Mar. 21	1999	446	86	1913
Ventilating device. Thermostatic and electrical	O. L. Billings	631,555	Aug. 22	3403	769, 770	88	1445
Ventilating device. Window-	J. A. Maul	625,891	May 30	3537	803	87	1467
Ventilating system	A. Miller	632,582	Sept. 5	680	158	88	1841
Ventilator: *See* Car-ventilator. Ship's ventilator. Carriage-ventilator. Well-ventilator. Refrigerator-car ventilator. Window-ventilator.							
Ventilator	H. K. C. de Anguera	624,888	May 9	1727	390	87	1059
Ventilator	T. Edwards	638,503	Dec. 5	606	125	89	1982
Ventilator	J. N. Garber	630,341	Aug. 8	1153	252	88	965
Ventilator	J. A. Gavin	637,863	Nov. 28	3509	732	89	1719
Ventilator	F. P. Hayles	631,042	Aug. 15	2463	557	88	1241
Ventilator	J. Leather	622,375	Apr. 4	304	70	87	58
Ventilator	C. F. Nickerson	634,215	Oct. 3	434	111	89	90
Ventilator	L. E. Wentworth, Jr	620,263	Feb. 28	2684	615	86	1387
Ventilator and air-purifier	J. C. Fleming	633,823	Sept. 26	3033	705	88	2344
Ventilator and flue-stop. Combined	W. H. Fulweiler	630,340	Aug. 8	1152	252	88	965
Ventilator and heating-drum. Combined	W. W. Gunter	629,961	Aug. 1	439	94	88	809
Ventilator-cap	E. H. Middleton	637,520	Nov. 21	2485	539	89	1456
Vertical boiler	J. B. Scranton	632,283	Sept. 5	147	34	88	1736
Vertical engine	W. E. Crane	626,368	June 6	299	68	87	1672
Vessel	W. B. Motheral	620,163	Feb. 28	2501	568, 569	86	1353
Vessel. Antispilling	L. Stanek and H. Axt	618,624	Jan. 31	3356	746	86	715
Vessel. Buoyant twin-screw	W. W. Dawley	636,495	Nov. 7	456	102	89	1013
Vessel-closure	A. F. Bardwell	626,015	May 30	3809	866	87	1519
Vessel-closure	A. Braverman	617,919	Jan. 17	2035	455	86	436
Vessel. Coaling	J. E. Walsh	623,268	Apr. 18	1989	456	87	417
Vessel-cover and fastening for same	B. G. Call	629,545	July 25	2969	693	88	634
Vessel-fender	I. G. Kurkumeli	624,948	May 16	1839	413	87	1097
Vessel for transport and means for conservation of effervescing beverages therein.	E. M. Eckardt	635,678	Oct. 24	3176	731	89	674
Vessel. Fore-and-aft-rigged	G. E. Albee	625,132	May 16	2161	490	87	1157
Vessel. Freight-delivery	J. E. Walsh	623,267	Apr. 18	1988	455, 456	87	416
Vessel-holds. Sounding apparatus for	H. R. Jagels	621,251	Mar. 14	1328	295	86	1772
Vessel hull. Marine-	J. W. Glaholm	634,814	Oct. 10	1540	362	89	322
Vessel-hulls. Apparatus for cleaning	D. Mason	633,873	Sept. 26	3127	726	88	2362
Vessel-hulls. Apparatus for cleaning	J. S. Zerbe	625,080	May 16	2059	462	87	1139
Vessel-hulls. Form for	M. F. Mithoff	630,254	Aug. 1	965	212	88	913
Vessel-hulls. Means for cleaning	D. Mason	635,938	Oct. 31	3685	851	89	786
Vessel-lubricator	F. X. Wagner	623,448	Apr. 18	2305	527	87	481
Vessel. Marine	C. L. Burger	631,417	Aug. 22	3138	711, 712	88	1392
Vessel. Metallic	T. W. Forster	620,235	Feb. 28	2633	600	86	1376
Vessel. Non-refillable	A. Shackleton	630,992	Aug. 15	2362	538	88	1221
Vessel or diving apparatus. Submarine	C. Paul	622,529	Apr. 4	627	147, 148, 149	87	119
Vessel. Submarine	S. Lake	638,342	Dec. 5	291	60, 61	89	1922
Vessel-trimmer	R. Thew	627,217	June 20	1837	402, 403	87	2009
Vessels. Apparatus for raising sunken	M. Jones	630,542	Aug. 8	1575	351	88	1043
Vessels. Apparatus for raising sunken	E. G. Pettit	630,104	Aug. 1	713	153, 154	88	864
Vessels. Construction of	J. M. Fehrenbach	619,155	Feb. 7	691	147, 148	86	947
Vessels. Device for pinching in parts of	J. Weidner	624,588	May 9	1180	265	87	952
Vessels while afloat. Means for repairing	D. Mason	635,939	Oct. 31	3688	852	89	786
Vessels. Shifting, reversing, and controlling mechanism for	H. Brinkmann	617,633	Jan. 10	1463	333, 334	86	304
Vest	J. G. Ewing	625,254	May 16	2374	538	87	1198
Vest. Nursing-	A. Allen	621,761	Mar. 21	2272	512	86	1967
Veterinary dental forceps	B. F. Pinson	636,285	Nov. 7	108	24	89	944
Veterinary instrument	J. Lauer	631,646	Aug. 22	3557	802	88	1476
Veterinary poultice-boot	W. C. Agnew	630,310	Aug. 8	1087	237	88	951
Viaduct	A. H. Lighthall	633,861	Sept. 26	3107	721	88	2359
Vial or medicine-bottle	J. U. Lloyd	628,269	July 4	595	140	88	115
Vine-clamp	F. A. Wittich	619,062	Feb. 7	505	106	86	908
Vine-pulling machine	A. R. Munson	633,209	Sept. 19	1899	447, 448	88	2108
Vine-support or trellis	E. H. Williams and R. D. Murray	619,379	Feb. 14	1082	244	86	1041
Violin	H. Hagberg	627,186	June 20	1793	393	87	2000
Violin	J. C. Kindig	629,374	July 25	2646	614	88	570
Violin	H. C. Perry	639,764	Dec. 26	2924	673	89	2494
Violin	C. Powers	625,058	May 16	2022	455	87	1132
Violin	R. and E. Sample	622,021	Mar. 28	2766	623	86	2078
Violin-bow	G. H. Gregg	638,508	Dec. 5	613	127	89	1984
Violin-key	C. J. Beauvais	639,341	Dec. 19	2124	489	89	2317
Violin or similar instrument	F. Schmidt	628,993	July 18	1959	455	88	417
Violin-rest	G. E. Hoffmann	627,692	June 27	2763	605	87	2208
Violin-string holder	H. W. Pearson	635,347	Oct. 24	2522	586	89	546
Vise	S. Coran	638,835	Dec. 12	1210	272	89	2122
Vise	C. Ernst	630,530	Aug. 8	1552	346	88	1038
Vise	C. Ernst	630,531	Aug. 8	1554	346	88	1038
Vise	W. J. L. Guest	636,661	Nov. 7	785	172	89	1080
Vise	S. N. Hubbell	630,230	Aug. 1	918	201	88	904
Vise	C. J. Jackson	631,013	Aug. 15	2402	545	88	1228

Alphabetical list of inventions—Continued.

Invention.	Name.	No.	Date.	Monthly volume. Spec.	Monthly volume. Dr'g.	Official Gazette. Vol.	Official Gazette. Page.
Vise	U. S. James and L. H. Graves	631,991	Aug. 29	4184	941	88	1606
Vise	E. H. Jones	626,427	June 6	394	93	87	1690
Vise	L. Parker and R. Poynor	634,022	Oct. 3	71	19	89	18
Vise	P. Theadore	632,381	Sept. 5	318	72	88	1769
Vise. Anvil-	J. C. Kriegbaum and W. A. Raudabaugh.	630,364	Aug. 8	1201	264	88	976
Vise. Anvil-	L. Stoyer	620,001	Feb. 21	2206	502	86	1281
Vise attachment	J. D Decelle	631,538	Aug. 22	3362	764	88	1436
Vise. Bench-	S. P. Lemay	636,151	Oct. 31	4119	942	89	873
Vise for holding threaded nipples	F. Kuttler	629,747	July 25	3332	778	88	704
Vise. Millwright-	J. F. Vallière	637,978	Nov. 28	3707	780	89	1758
Vise. Pipe-	G. F. Condit	618,840	Feb. 7	40	8	86	811
Vise. Quick-action	C. B. Campbell	631,151	Aug. 15	2652	600	88	1277
Vise. Quick-action	A. Katzki	633,286	Sept. 19	2050	481	88	2137
Visework. Bench-rest for	J. D. Hodge	630,698	Aug. 8	1840	415	88	1093
Visible and audible signal. Combined	R. M. Dixon	637,925	Nov. 28	3609	756, 757	89	1740
Volt and ampere meter	J. D. Ross	634,767	Oct. 10	1464	344	89	308
Voltaic battery	H. D. Hamilton	619,885	Feb. 21	2020	459	86	1247
Voltaic cell. Standard	R. O. Heinrich	631,044	Aug. 15	2466	558	88	1241
Voltmeters. Protecting static	E. M. Hewlett	637,785	Nov. 28	3343	700	89	1685
Vote-recording apparatus	W. H. Howe	628,095	July 4	257	61, 62	88	52
Voting apparatus	L. Y. McConnell	622,520	Apr. 4	607	143, 144	87	115
Voting-machine	J. Boma	635,273	Oct. 17	2384	556, 557	89	504
Voting-machine	J. E. Chapin	620,417	Feb. 28	2938	674, 675	86	1436
Voting-machine	H. A. Clifford	620,699	Mar. 7	295	59, 60	86	1559
Voting-machine	H. C. H. Cooper. (Reissue)	11,784	Nov. 7	964	207, 208	89	1127
Voting-machine	H. C. H. Cooper. (Reissue)	11,792	Nov. 28	4167	879, 880, 881	89	1849
Voting-machine	W. R. Cunningham and T. Major	623,991	May 2	67	15, 16	87	715
Voting-machine	D. and E. H. Davis	619,249	Feb. 7	851	186, 187	86	979
Voting-machine	J. H. Dean	622,191	Mar. 28	3074	696, 697, 698	86	2139
Voting-machine	J. H. Dean	622,192	Mar. 28	3090	698, 699, 700, 701	86	2145
Voting-machine	J. H. Dean	622,193	Mar. 28	3117	701	86	2153
Voting-machine	J. H. Dean	636,730	Nov. 7	913	203, 204	89	1110
Voting-machine	O. A. Gatrell	617,734	Jan. 17	1658	373, 374	86	363
Voting-machine	O. A. Gatrell	631,251	Aug. 15	2835	639, 640	88	1315
Voting-machine	A. J. Gillespie	628,792	July 11	1590	367, 368, 369	88	331
Voting-machine	A. J. Gillespie	628,905	July 11	1798	419, 420	88	370
Voting-machine	J. A. Gray	620,767	Mar. 7	428	88	86	1585
Voting-machine	M. H. Johnson	624,818	May 9	1597	363, 364	87	1034
Voting-machine	W. Johnson	631,721	Aug. 22	3702	830, 831, 832, 833	88	1502
Voting-machine	E. McClain	637,275	Nov. 21	2027	435	89	1365
Voting-machine	E. J. Mead	618,705	Jan. 31	3506	783, 784	86	744
Voting-machine	O. M. Myers	622,514	Apr. 4	579	135	87	109
Voting-machine	W. H. Phelps	628,032	July 4	128	26, 27	88	27
Voting-machine	F. W. Purcell	620,610	Mar. 7	110	22	86	1524
Voting-machine	J. Roser	633,492	Sept. 19	2428	571, 572	88	2210
Voting-machine	C. Simon	639,303	Dec. 19	2048	471	89	2301
Voting-machine	J. B. Weigand	630,148	Aug. 1	784	169, 170	88	878
Voting-machine	G. Wilson	639,328	Dec. 19	2098	482	89	2312
Voting-machine	L. R. Winslow	621,511	Mar. 21	1800	400, 401	86	1874
Voting-machine and booth	G. W. Trommlitz	638,683	Dec. 5	945	211, 212	89	2052
Vulcanizer	C. L. Allison	636,739	Nov. 14	984	210	89	1147
Vulcanizer	J. E. Bancroft	622,175	Mar. 28	2049	691	86	2135
Vulcanizer	S. A. Brown	630,650	Aug. 8	1765	397, 398	88	1079
Vulcanizer	J. E. Bancroft	636,236	Nov. 7	10	2, 3	89	926
Vulcanizer	J. E. Bancroft	636,237	Nov. 7	11	3	89	927
Vulcanizing apparatus	H. J. Doughty	617,414	Jan. 10	1074	245	86	228
Vulcanizing-press	L. K. Scotford	623,838	Apr. 25	3034	698	87	639
Wafers. Apparatus for making folded	H. D. Perky	618,288	Jan. 24	2731	605	86	582
Wagon	C. M. Haeske	622,143	Mar. 28	2987	674, 675	86	2122
Wagon	C. W. Hemm	617,157	Jan. 3	573	135	86	112
Wagon	W. O. Shadbolt	620,189	Feb. 28	2557	580	86	1362
Wagon and boat. Combined	A. C. Peterson	632,741	Sept. 12	1013	235, 236	88	1921
Wagon and stock and hay rack. Combined	J. Skimin and J. McDanield	623,339	Apr. 18	2114	485, 486	87	442

Alphabetical list of inventions—Continued.

Invention.	Name.	No.	Date.	Monthly volume. Spec.	Monthly volume. Drg.	Official Gazette. Vol.	Official Gazette. Page.
Wagon attachable runner	E. H. De Witt	618,063	Jan. 24	2305	514	86	503
Wagon-body	T. Hill	634,750	Oct. 10	1441	339	89	303
Wagon-body	G. W. Reed	633,905	Sept. 26	3179	739, 740	88	2373
Wagon-body	A. M. Schmitt	628,858	July 11	1707	399	88	352
Wagon-body angle-iron attachment	O. Johnson	626,236	June 6	38	9	87	1622
Wagon body. Hay-	E. M. Karth	618,102	Jan. 24	2380	532	86	516
Wagon-body hoisting and unloading device	R. Ege	630,872	Aug. 15	2136	484, 485	88	1177
Wagon-body hoisting device	J. H. Simonton	621,164	Mar. 14	1177	256	86	1742
Wagon-body lifter	O. H. Drinkwater	634,404	Oct. 3	820	198	89	164
Wagon-body or hay-rack lifter	A. J. Busey	632,097	Aug. 29	4383	984	88	1645
Wagon-body raiser	S. N. Maxwell	627,004	June 13	1481	324	87	1920
Wagon-box	E. K. Hayes	627,262	June 20	1929	425	87	2028
Wagon-box clamp	J. S. and W. T. Gilkey	632,997	Sept. 12	1477	344	88	2013
Wagon-box corner-shield	D. W. McClaughry	628,834	July 11	1667	389	88	346
Wagon-box. Dumping	G. Caskey	616,897	Jan. 3	60	12	86	14
Wagon-box fastener	D. Hamman	635,722	Oct. 24	3246	748	89	689
Wagon-box fastener	W. J. and D. Hamman	638,239	Dec. 5	64	15	89	1879
Wagon-brake	C. A. Beckstrom	629,646	July 25	3153	735	88	669
Wagon-brake	R. E. Devling	619,284	Feb. 14	930	210	86	1011
Wagon-brake	R. A. Dilts	634,400	Oct. 3	815	197	89	162
Wagon-brake	W. N. and J. M. Gantt	636,131	Oct. 31	4090	936	89	867
Wagon-brake	Z. Hawkins	630,692	Aug. 8	1832	413	88	1092
Wagon-brake	J. M. Heid	635,250	Oct. 17	2342	547	89	495
Wagon-brake	J. Heller	616,925	Jan. 3	118	26	86	25
Wagon-brake	C. C. Long	633,017	Sept. 12	1515	352	88	2020
Wagon-brake	E. T. Robertson	633,276	Sept. 19	2034	478	88	2134
Wagon-brake	M. E. Sarvis	626,504	June 6	533	123	87	1717
Wagon-brake	E. Seggese	635,109	Oct. 17	2101	493	89	451
Wagon-brake	W. S. Smith	633,844	Apr. 25	3048	701	87	641
Wagon-brake	E. Spires	629,017	July 18	2000	466	88	427
Wagon-brake	G. A. Stark	635,358	Oct. 24	2555	594	89	553
Wagon-brake	C. B. Stetson	632,765	Sept. 12	1061	246	88	1932
Wagon-brake	J. Stromeyer	629,403	July 25	2703	629	88	583
Wagon-brake	L. S. Wheeler	638,783	Dec. 12	1122	250	89	2105
Wagon-brake. Automatic	G. Bruhn	623,881	Apr. 25	3111	716	87	653
Wagon-brake. Automatic	L. J. Klein	627,645	June 27	2685	589	87	2194
Wagon-brake. Automatic	J. Pickersgill	636,550	Nov. 7	561	125	89	1034
Wagon. Coal-	G. B. Marx	626,711	June 13	906	205	87	1808
Wagon-coupling	O. L. Beckett	636,944	Nov. 14	1381	294	89	1226
Wagon-cover	L. N. Leonard	632,578	Sept. 5	676	157	88	1840
Wagon-dump and elevator	J. S. Kidd	630,239	Aug. 1	940	206, 207	88	908
Wagon. Dumping-	J. Blum	617,476	Jan. 10	1176	268	86	248
Wagon. Dumping-	J. Bullock	635,420	Oct. 24	2716	622, 623	89	585
Wagon. Dumping-	M. G. Bunnell	635,421	Oct. 24	2718	624	89	585
Wagon. Dumping-	L. A. Burnham	628,978	July 18	1925	449	88	412
Wagon. Dumping-	G. A. Garrett	621,406	Mar. 21	1602	355	86	1837
Wagon. Dumping-	A. H. Greeley and C. O. Bartlett	640,129	Dec. 26	3576	823	89	2627
Wagon. Dumping-	F. E. Heston	623,017	Apr. 11	1502	348	87	306
Wagon. Dumping-	J. O'Connor	637,523	Nov. 21	2492	540	89	1457
Wagon. Dumping-	C. S. Pharis	636,549	Nov. 7	560	124	89	1034
Wagon. Dumping-	J. T. Richardson	617,994	Jan. 17	2154	480, 481	86	459
Wagon. Dumping-	H. Wuest and A. Klatt	620,081	Feb. 21	2352	533	86	1309
Wagon. Furniture or express	W. S. Webber	630,147	Aug. 1	783	169	88	877
Wagon-gate lock. Adjustable	W. Kissinger	622,049	Mar. 28	2812	634	86	2087
Wagon-gear	J. T. Watkins	640,055	Dec. 26	3443	791	89	2599
Wagon grain-board	G. S. Warren	630,956	Aug. 15	2294	522	88	1207
Wagon hand-brake	P. Armbruster	630,021	Aug. 1	553	122	88	833
Wagon hound and brace combined	W. P. Bettendorf	620,095	Feb. 28	2382	539	86	1330
Wagon-jack	C. Culver	635,304	Oct. 24	2451	570	89	533
Wagon-jack	W. M. Potter	631,663	Aug. 22	3585	808	88	1482
Wagon-jack	M. H. Tyler	623,050	Apr. 11	1551	358	87	316
Wagon-jack	J. L. Williams	630,154	Aug. 1	801	173	88	881
Wagon-post. Supplemental	J. W. Bettendorf	620,094	Feb. 28	2381	539	86	1330
Wagon. Push-	T. Hill	633,998	Oct. 3	32	10,11	89	10
Wagon-rack. Adjustable	T. B. True	629,021	July 18	2005	467	88	428
Wagon-reach	A. T. Barry	631,979	Aug. 29	4161	935	88	1601
Wagon. Refuse-	J. B. Mowry	622,702	Apr. 11	945	218, 219	87	199
Wagon running-gear	F. Jaycox	630,711	Aug. 8	1858	420	88	1097
Wagon running-gear	D. H. Turnbull	631,346	Aug. 22	3004	682	88	1366
Wagon seat. Market-	G. A. Kinsey	625,690	May 23	3128	711	87	1370
Wagon-seat support	J. Skimin and J. McDaniel	623,340	Apr. 18	2118	486	87	443
Wagon. Speed-	G. W. Werner	635,525	Oct. 24	2903	663	89	622
Wagon-spring brace	A. J. Gustafson	620,123	Feb. 28	2438	551	86	1340
Wagon-stake pocket	J. M. Selzer	623,042	Apr. 11	1541	356	87	314
Wagon-standard	C. Kretschmer	636,814	Nov. 14	1117	239	89	1174
Wagon-standard	R. Klatt	632,127	Aug. 29	4453	1002	88	1660
Wagon-standard	J. N. Smith	629,618	July 25	3109	724	88	660
Wagon-starter	B. J. Sykes	620,059	Feb. 21	2319	526	86	1303
Wagon top-box fastener	R. M. Gerdes	634,291	Oct. 3	605	148	89	121
Wagon-truck. Four-wheeled	H. B. Schindler	631,477	Aug. 22	3248	737	88	1414
Wagon. Weighing chute-	C. Bernhardt	623,976	May 2	40	8, 9	87	709
Wagons. Combined stock and feed rack for	G. Harrouff	618,346	Jan. 24	2828	628	86	599
Wagons. Device for moving loaded	R. S. Trask	631,480	Aug. 22	3251	737, 738	88	1414
Waist	T. B. Fitzpatrick	629,439	July 25	2765	642	88	595
Waist	T. B. Fitzpatrick	629,440	July 25	2766	642	88	595
Waist	C. Hardt	639,381	Dec. 19	2216	513	89	2336
Waist and skirt attachment and support	W. Fraser	628,601	July 11	1216	285	88	255
Waistband-fastener	C. H. Muehler	626,333	June 6	214	52	87	1653
Walk-way. Illuminated antislipping	W. H. Brown	629,950	Aug. 1	416	90	88	804

Alphabetical list of inventions—Continued.

Invention.	Name.	No.	Date.	Monthly volume. Spec.	Monthly volume. Drg.	Official Gazette. Vol.	Official Gazette. Page.
Wall	C. F. Stowell and A. C. Cunningham.	629,477	July 25	2845	660, 661	88	610
Wall. Building-	J. Brower	627,960	June 27	3238	710	87	2306
Wall-cleaning compound	A. M. Fuller	634,497	Oct. 10	987		89	215
Wall-covering	S. R. Blanchard	629,100	July 18	2155	500, 501	88	458
Wall-furring	E. R. Leonard	619,968	Feb. 21	2156	489	86	1272
Wall-protector	R. L. Hardin	624,796	May 9	1548	353	87	1025
Wall-table. Folding	W. F. C. Trinkler	617,429	Jan. 10	1100	250	86	233
Wall-tie	M. S. Trumbo	625,071	May 16	2044	459	87	1136
Wall. Wooden	P. F. Kesting	637,937	Nov. 28	3635	762	89	1744
Walls. Anchoring device for brick	H. T. Moody	620,481	Feb. 28	3042	696	86	1455
Walls, floors, ceilings, &c. Construction of	A. Matrai	634,986	Oct. 17	1851	439	89	401
Walls. Metallic angle-piece for	L. H. Broome	632,007	Aug. 29	4216	949	88	1613
Wardrobe	C. E. Cox	639,668	Dec. 19	2720	628	89	2439
Wardrobe	W. M. Grace	630,685	Aug. 8	1822	411	88	1090
Wardrobe	J. E. Kennedy	631,525	Aug. 22	3337	758	88	1432
Wardrobe sliding door	J. E. Kennedy	625,266	May 16	2392	542	87	1201
Warmer. Body-	L. F. Holberg	635,891	Oct. 31	3612	833	89	772
Warming vessel	R. Swartz	633,706	Sept. 26	2846	661	88	2306
Warming vessel	R. Swartz	633,707	Sept. 26	2847	662	88	2306
Warp-beaming machines. Automatic tension-governor for	G. Brown and E. Dick. (Reissue)	11,791	Nov. 21	3296	688	89	1657
Warp or other yarns. Apparatus for marking	S. A. Fowler	618,656	Jan. 31	3425	763	86	729
Warp stop-motion	W. F. Arthur	627,963	July 4	3	1	88	3
Warp-stop-motion apparatus	G. O. Draper	618,378	Jan. 24	2893	641	86	612
Warp-stop-motion apparatus	G. O. Draper	622,182	Mar. 28	3059	693	86	2137
Warp-stop-motion apparatus	G. O. Draper	622,183	Mar. 28	3061	694	86	2137
Warp-stop-motion apparatus	G. O. Draper	622,184	Mar. 28	3062	694	86	2137
Warp stop-motion. Electrical	W. H. Baker and F. E. Kip	632,004	Aug. 29	4212	948	88	1612
Warp-stop-motion mechanism	J. C. Edwards	630,200	Aug. 1	871	188	88	894
Warp-thread tension	W. E. Fischer, G. F. Kuett, and C. Fischer.	635,533	Oct. 24	2915	665	89	624
Warp-threads. Machine for drawing in	R. H. Ingersoll	628,627	July 11	1276	296, 297, 298, 299	88	267
Warp-threads. Machine for drawing in	R. H. Ingersoll	628,628	July 11	1283	299, 300, 301	88	268
Warp-threads. Machine for drawing in	J. Joubert	622,154	Mar. 28	3003	679	86	2125
Warpers. Automatic tension-wire and bobbin-brake for	T. H. Smith	624,695	May 9	1368	305	87	988
Warping and beaming machine	C. H. Knapp	630,611	Aug. 8	1691	381	88	1066
Warping-machine	F. L. Atherton	626,478	June 6	482	113	87	1707
Warping-machine	J. H. Bentley	628,136	July 4	338	81	88	69
Warping-machine	A. E. Rhoades	624,541	May 9	1104	249	87	936
Washbench and clothes-wringer. Combined	C. Wheeler, Jr	634,710	Oct. 10	1365	321, 322	89	289
Washbench. Folding	L. G. Bunyea	628,574	July 11	1181	276	88	248
Washboard	S. L. Barndollar	626,044	May 30	3868	877	87	1528
Washboard	J. Carroll	634,877	Oct. 17	1666	392	89	364
Washboard	C. W. Kennon	633,011	Sept. 12	1498	348	88	2017
Washboard	J. J. G. C. Schmidt	633,103	Sept. 12	1700	400	88	2056
Washboard	J. Sternad	624,398	May 2	827	186	87	859
Washboard	H. J. Tuttle	632,210	Aug. 29	4604	1037	88	1688
Washboard	W. Wallenthin	630,143	Aug. 1	779	168	88	877
Washboard. Self-soaping	A. J. Williams	617,791	Jan. 17	1787	400	86	386
Washboiler	J. Brown	639,844	Dec. 26	3072	705	89	2523
Washboiler	S. S. Miles	624,840	May 9	1644	372	87	1042
Washboiler	L. Wigen	620,523	Feb. 28	3109	711	86	1469
Washboiler-cover	E. O. Lunt	617,966	Jan. 17	2106	472	86	451
Washboiler-handle	M. M. Wald	635,825	Oct. 31	3472	797, 798	89	745
Washpounder	J. F. Wade	624,711	May 9	1397	312	87	994
Washstand. Adjustable	W. J. Lang	625,271	May 16	2402	544, 545	87	1202
Washstand and writing-desk. Combination	A. G. Thayer	636,588	Nov. 7	632	139	89	1050
Washtub	J. T. Hattersley	633,647	Sept. 26	2736	637	88	2283
Washtub-splasher	J. A. Boehringer	622,595	Apr. 4	741	171	87	141
Washer: *See* Adjusting-washer. Barrel-washer. Bottle-washer. Dish-washer. Gas-washer. Glass or bottle washer. Hose-washer. Nut-lock washer. Ore-washer. Ore or coal washer. Slate-washer. Steam-washer. Street-washer. Tumbler-washer. Vehicle-washer. Wool-washer.							
Washer and wringer. Combined	R. K. Tomlinson	622,173	Mar. 28	3045	689, 690	86	2134
Washer-cutter	J. A. Heinz	633,316	Sept. 19	2126	498	88	2152
Washing and canning table	F. A. Dixon	621,045	Mar. 14	973	212	86	1702
Washing and cleaning device	T. J. Whalen and J. F. Warner	639,475	Dec. 19	2387	549	89	2369
Washing device. Clothes-	C. P. Snow	635,404	Oct. 24	2651	613	89	572
Washing-machine	J. K. Ackley	636,311	Nov. 7	145	32	89	950
Washing-machine	S. A. Albertson	631,357	Aug. 22	3024	685	88	1370
Washing-machine	D. C. Barnard	629,024	July 18	2010	468	88	428
Washing-machine	P. T. Benbow	627,968	July 4	15	4	88	5
Washing-machine	J. A. Bergman	636,945	Nov. 14	1382	294	89	1226
Washing-machine	D. H. Boor	639,885	Dec. 26	3125	719	89	2533
Washing-machine	I. Boyd	635,293	Oct. 24	2429	566	89	529
Washing-machine	W. E. Brown	617,850	Jan. 17	1894	422	86	409
Washing-machine	J. R. Carter	618,331	Jan. 24	2806	622	86	595
Washing-machine	P. W. Casler	624,453	May 9	931	208	87	903

Alphabetical list of inventions—Continued.

Invention.	Name.	No.	Date.	Monthly volume.		Official Gazette.	
				Spec.	Dr'g.	Vol.	Page.
Washing-machine	P. W. Casler	636,320	Nov. 7	158	34	89	952
Washing-machine	A. G. Christman	627,297	June 20	1989	438	87	2040
Washing-machine	J. H. Doub	631,458	Aug. 22	3211	729, 730	88	1406
Washing-machine	J. C. Fenimore	631,932	Aug. 29	4072	914	88	1585
Washing-machine	J. W. Fisher	634,812	Oct. 10	1537	361	89	321
Washing-machine	J. H. Geers	639,167	Dec. 12	1778	412	89	2223
Washing-machine	W. G. Gibbins	638,180	Nov. 28	4112	868, 869	89	1838
Washing-machine	J. W. C. Glotfelty and C. P. Snow	636,403	Nov. 7	294	66	89	980
Washing-machine	E. C. Goodrich	624,475	May 9	975	216	87	911
Washing-machine	W. R. Green	618,504	Jan. 31	3149	696	86	675
Washing-machine	G. Gschwendtner	618,568	Jan. 31	3265	724, 725	86	697
Washing-machine	F. D. Harding	618,570	Jan. 31	3267	725	86	697
Washing-machine	A. H. Herron	623,903	Apr. 25	3155	727	87	662
Washing-machine	O. Hewes	620,921	Mar. 14	710	157	86	1653
Washing-machine	H. Hubbard	619,178	Feb. 7	728	157	86	954
Washing-machine	W. S. Kernohan	627,644	June 27	2684	588	87	2193
Washing-machine	H. Kleiman	624,220	May 2	502	107	87	796
Washing-machine	O. P. Kvernum	621,351	Mar. 21	1520	338	86	1822
Washing-machine	E. Lachance	630,719	Aug. 8	1872	423	88	1100
Washing-machine	W. McIntosh	634,991	Oct. 17	1861	442	89	403
Washing-machine	H. C. Meeker	637,007	Nov. 14	1506	324	89	1251
Washing-machine	D. Morgan	620,794	Mar. 7	476	99	86	1595
Washing-machine	T. C. Murphy	620,605	Mar. 7	99	19	86	1522
Washing-machine	G. Nirisen	625,190	May 16	2252	512	87	1175
Washing-machine	S. J. Pett	617,405	Jan. 10	1057	240	86	225
Washing-machine	C. S. Price	631,905	Aug. 29	4026	902	88	1576
Washing-machine	Z. S. and M. C. Randleman	636,556	Nov. 7	572	127	89	1037
Washing-machine	W. S. Reamer	624,540	May 9	1103	249	87	936
Washing-machine	H. A. Schoregge	635,001	Oct. 17	1876	445	89	406
Washing-machine	R. H. Scroggins	626,636	June 6	749	172	87	1759
Washing-machine	J. F. Seidel	624,551	May 9	1117	252	87	938
Washing-machine	H. C. Simons	621,861	Mar. 28	2457	548	86	2018
Washing-machine	H. J. Skinner	622,552	Apr. 4	668	156	87	127
Washing-machine	A. J. Smalley	635,197	Oct. 17	2254	525	89	480
Washing-machine	J. C. Smith	626,105	May 30	3999	911, 912	87	1550
Washing-machine	T. W. Stone	619,910	Feb. 21	2058	467	86	1254
Washing-machine	W. F. Stricker	629,702	July 25	3244	755	88	686
Washing-machine	W. Sweet	629,625	July 25	3119	725, 726	88	662
Washing-machine	J. H. Therien	620,552	Feb. 28	3188	730	86	1484
Washing-machine	J. W. Thomas	625,069	May 16	2041	459	87	1136
Washing-machine	G. F. Van Brunt	631,347	Aug. 22	3006	682	88	1366
Washing-machine	J. H. Vickars	632,601	Sept. 5	712	164, 165	88	1847
Washing-machine	R. L. Wearne	630,146	Aug. 1	782	168, 169	88	877
Washing-machine	R. P. Weed	622,907	Apr. 11	1306	300	87	266
Washing-machine	H. W. Wichman	627,789	June 27	2930	641, 642	87	2242
Washing-machine	H. W. Wichman and A. H. Herron	627,788	June 27	2928	641	87	2242
Washing-machine	J. T. Wills	638,432	Dec. 5	473	96	89	1957
Washing-machine	G. W. Wright	634,492	Oct. 10	981	234	89	214
Washing-machine	A. J., J. B., and W. D. Ziegler	633,178	Sept. 19	1843	433, 434	88	2096
Washing-machine alarm. Rotary	G. B. Wheeler	634,712	Oct. 10	1370	322	89	290
Washing machine. Clothes-	J. M. Coulter	617,673	Jan. 10	1533	348	86	318
Washing-machine clothes-conveyer	E. and J. Haskins	628,797	July 11	1610	371	88	335
Washing-machine gearing	S. P. Grey	635,475	Oct. 24	2820	643	89	606
Washing-machine gearing	A. H. Herron	624,031	May 2	148	32, 33	87	731
Washing-machine reversing mechanism	J. A. Reams and C. H. Smith	637,895	Nov. 28	3565	746, 747	89	1731
Waste-gate. Automatic	W. T. Taylor	635,206	Oct. 17	2272	529	89	482
Watch. Alarm-	H. Baethig	637,366	Nov. 21	2215	476	89	1303
Watch-balance. Compensation	A. Borel	631,103	Aug. 15	2571	582	88	1261
Watch balance-wheels. Manufacturing	A. Mathey-Doret	639,821	Dec. 26	3027	697	89	2515
Watch-barrel	C. Morlet	617,115	Jan. 3	491	117	86	97
Watch-barrel	C. Morlet	629,907	Aug. 1	298	67	88	778
Watch-barrel contractor	C. H. Jenkins	627,670	June 27	2727	598	87	2202
Watchcase	H. F. Steinmeyer	634,919	Oct. 17	1729	410	89	376
Watchcase. Dust-proof	W. W. Jordan	626,703	June 13	893	203	87	1806
Watchcase-pendant	A. M. Yeakel	621,887	Mar. 28	2521	567	86	2030
Watch. Cyclometer-	J. Davidson	622,884	Apr. 11	1272	293, 294	87	260
Watch guard or protector	W. S. Sutton	635,611	Oct. 24	3057	702	89	650
Watch hair-spring collet	C. Teske	617,301	Jan. 3	883	194	86	164
Watch-holder attachment for vehicles	C. A. Cowles	630,186	Aug. 1	851	182	88	890
Watch-key	J. W. Riglander	630,562	Aug. 8	1607	359	88	1050
Watch-lathe attachment	C. M. Willis	634,787	Oct. 10	1491	351	89	313
Watchmaker's tool	C. H. Jenkins	627,669	June 27	2726	597	87	2201
Watch-movement bridge	J. L. Kurtz	639,177	Dec. 12	1796	416	89	2237
Watch-plate	F. Hecht	638,510	Dec. 5	616	127	89	1984
Watch-plate	E. Krahenbuhl	632,128	Aug. 29	4454	1002	88	1660
Watch-regulator	C. K. Colby	627,053	June 13	1555	341	87	1934
Watch-regulator	C. K. Colby	627,817	June 27	2988	653	87	2253
Watch-regulator	O. F. Engwall	635,760	Oct. 31	3345	774	89	720
Watch-regulator	E. Hart	621,245	Mar. 14	1318	292	86	1770
Watch. Repeating	F. W. Waschau	621,002	Mar. 14	876	190, 191	86	1684
Watch-roller-pin fastening	E. J. Haverly	639,698	Dec. 19	2794	644	89	2451
Watch-roller remover	E. N. Parker	624,242	May 2	553	117	87	804
Watch safety-guard	J. J. Fogarty	630,208	Aug. 1	883	191	88	897
Watch-spring holder	M. H. Stevens	630,127	Aug. 1	749	161	88	872

Alphabetical list of inventions—Continued.

Invention.	Name.	No.	Date.	Monthly volume.		Official Gazette.	
				Spec.	Dr'g.	Vol.	Page.
Watch. Stem winding and setting	A. Anzelewitz	626,128	May 30	4044	923	87	1559
Watch. Stem winding and setting	E. F. Heffernan	621,664	Mar. 21	2078	464	86	1930
Watches. Adjustable jewel-bearing for	A. C. Rosenbrook	620,972	Mar. 14	824	181	86	1674
Water and steam pipe. Sheet-metal	F. A. Wilmot	625,946	May 30	3627	824	87	1484
Water and steam separator	C. W. Baker	630,023	Aug. 1	556	122, 123	88	833
Water, &c. Apparatus for automatically causing flow of	H. Beech	634,842	Oct. 10	1593	373	89	333
Water. Apparatus for mixing cold and hot	F. Kaeferle	623,909	Apr. 25	3166	730	87	664
Water-bag stopper	C. E. Longden	626,069	May 30	3907	887	87	1535
Water-boiler. Electric	J. C. Cramer	624,306	May 2	669	147	87	828
Water. Buoyant metallic agent for purifying	J. W. Hyatt	634,462	Oct. 10	930	222	89	203
Water-can	G. Birk	630,583	Aug. 8	1645	367	88	1058
Water-cart and watering-trough. Portable	L. E. Miller	634,828	Oct. 10	1564	368	89	328
Water-closet	G. Biebuyck	632,631	Sept. 5	756	174	88	1856
Water-closet	P. J. Davies	633,232	Sept. 19	1958	460	88	2120
Water-closet	W. S. Glover	627,919	June 27	3170	694	87	2293
Water-closet	G. B. Howell	623,311	Apr. 18	2064	473, 474	87	432
Water-closet	C. H. Moore	624,959	May 16	1858	417	87	1101
Water-closet	J. Old	629,462	July 25	2804	651	88	602
Water-closet	J. B. Rhodes	639,290	Dec. 19	2024	467	89	2296
Water-closet	L. M. Russell	636,564	Nov. 7	596	131	89	1043
Water-closet	A. Solomon and J. Van Leaven	631,097	Aug. 15	2564	580	88	1260
Water-closet	L. H. Williams	626,645	June 6	764	175	87	1762
Water-closet bowl or basin	D. W. Scutt	625,125	May 16	2150	488	87	1155
Water-closet flushing apparatus	A. Lá Bonté	624,224	May 2	509	108	87	797
Water-closet flushing apparatus	T. Tripp	638,945	Dec. 12	1402	320, 321	89	2160
Water-closet flushing apparatus	J. A. Woodbury	638,900	Dec. 12	1324	301	89	2145
Water-closet flushing device	F. Robinson, H. T. Emerson, and W. O. Carlson.	628,357	July 4	765	178	88	147
Water-closet flushing device	D. O. Seaman	626,346	June 6	244	57	87	1661
Water-closet flushing-valve	T. J. McHugh	618,609	Jan. 31	3331	740	86	710
Water-closet flushing-valve	L. B. Smith	637,357	Nov. 21	2196	473	89	1399
Water-closet for ships. Pump	S. R. Miles	637,399	Nov. 21	2273	490	89	1415
Water-closet seat	E. F. Chaffee	617,875	Jan. 17	1948	436	86	419
Water-closet seat	J. Herrmann	623,016	Apr. 11	1502	347	87	306
Water-closet seat	J. Herrmann	628,802	July 11	1618	373	88	337
Water-closet seats. Sanitary protector for	F. E. Miller and G. L. Wheelock	634,580	Oct. 10	1140	270, 271	89	244
Water-closet spring-seat	A. O'Brien	622,383	Apr. 4	314	72	87	60
Water-closet valve	C. Perkes	638,594	Dec. 5	769	167	89	2013
Water-closet valve	R. S. Watson	621,549	Mar. 21	1879	416	86	1889
Water-closet valve device	P. J. Madden	637,967	Nov. 28	3685	775	89	1754
Water-closets. Attachment for automatically flushing	A. E. Schlieder	638,888	Dec. 12	1304	296	89	2140
Water-closets, &c. Soil-pipe connection for	W. E. Hinsdale	628,004	July 4	88	17	88	19
Water collecting and conveying apparatus	J. T. Lackey	624,504	May 9	1027	232	87	920
Water-column	E. D. Cain	618,222	Jan. 24	2611	578	86	558
Water-column	W. S. Elliott	626,226	June 6	19	5	87	1618
Water-column. Electric-alarm	M. L. Bush and C. F. Swain	631,277	Aug. 22	2884	652	88	1341
Water. Composition for sterilizing	C. J. Heinen	636,986	Nov. 14	1460	------	89	1242
Water-conveyer	H. A. Johnson	628,437	July 4	907	212	88	174
Water cooler and filter	D. Melcher	633,698	Sept. 26	2835	659	88	2303
Water-cooling tower	J. M. Seymour, Jr.	621,718	Mar. 21	2177	489	86	1950
Water-distributing device	E. Hett	637,565	Nov. 21	2719	565, 566	89	1520
Water-elevator	J. A. Lombas	640,141	Dec. 26	3595	827	89	2631
Water-elevator	H. Room	617,910	Jan. 17	2022	451, 452	86	433
Water-elevator. Compressed-air	F. Hayes and H. L. Frost	628,318	July 4	705	164	88	135
Water-elevator. Compressed-air	M. L. Mitchell	629,866	Aug. 1	203	46, 47	88	760
Water-elevator. Compressed-air	W. H. Shaffner	639,622	Dec. 19	2641	606	89	2420
Water-elevator. Windlass	J. M. Carver	629,769	Aug. 1	15	4, 5	88	724
Water-elevator. Windlass	T. S. Coleman	639,149	Dec. 12	1748	404	89	2227
Water elevators and purifiers. Bucket-chain for	F. J. Kuny	622,896	Apr. 11	1291	297	87	263
Water-feed apparatus	J. Morrison	636,681	Nov. 7	816	180	89	1088
Water-feed device	W. P. Maxson	633,526	Sept. 19	2482	584	88	2220
Water-feed regulator	T. L. and T. J. Sturtevant	636,470	Nov. 7	408	90, 91	89	1008
Water-feeder. Automatic	C. A. Southwick	626,730	June 13	940	213	87	1815
Water-gage	M. Goudreau	625,724	May 23	3185	723	87	1381
Water-gage gasket	H. K. Gilbert	630,047	Aug. 1	604	132	88	843
Water-gage guard	R. S. Mears	635,565	Oct. 24	2977	683	89	635
Water-gate. Non-clogging	P. K. Shaffer	629,725	July 25	3291	768	88	695
Water-heater	J. C. Beckfield	632,212	Aug. 29	4607	1038	88	1689
Water-heater	J. F. Borne and R. C. McClure	624,903	May 16	1755	396	87	1082
Water-heater	G. P. Brintnall	626,454	June 6	441	103	87	1699
Water-heater	W. C. Clarke	620,888	Mar. 14	655	143	86	1644
Water-heater	C. H. Fox	633,644	Sept. 26	2733	636	88	2282
Water-heater	D. Heft	637,868	Nov. 28	3516	735	89	1720
Water-heater	J. T. Helms and R. A. Keller	619,568	Feb. 14	1400	322	86	1102
Water-heater	M. E. Herbert, Jr.	634,345	Oct. 3	723	172	89	145
Water-heater	J. McCartney	624,070	May 2	226	47	87	745
Water-heater	T. J. Mooney	621,690	Mar. 21	2132	475	86	1941
Water-heater	G. W. Morris	621,693	Mar. 21	2136	476	86	1942
Water-heater	T. Pattison	631,261	Aug. 15	2853	644	88	1318
Water-heater	I. E. Reis	638,144	Nov. 28	4044	853	89	1823
Water-heater	M. Schaack	633,768	Sept. 26	2951	685	88	2327
Water-heater	M. Schaack	633,769	Sept. 26	2952	685	88	2327
Water-heater	W. A. Tichenor	619,101	Feb. 7	572	122, 123	86	923
Water-heater	P. G. Van Wie	638,301	Dec. 5	220	46	89	1908
Water-heater	P. G. Van Wie and L. Kahn	628,048	July 4	162	34	88	33
Water heater and purifier	C. F. Bainter	637,224	Nov. 21	1940	415	89	1348
Water heater and tank	H. Harbeckes	636,799	Nov. 14	1093	234	89	1169

Alphabetical list of inventions—Continued.

Invention.	Name.	No.	Date.	Monthly volume.		Official Gazette.	
				Spec.	Dr'g.	Vol.	Page.
Water-heater. Automatic	R. Schlumberger	629,175	July 18	2287	532	88	482
Water-heater burner	I. E. Reis	638,143	Nov. 28	4043	852	89	1823
Water-heater-cleaning apparatus	G. J. Dehn	620,231	Feb. 28	2626	597	86	1375
Water-heater-heating element	B. Becker	638,165	Nov. 28	4083	861	89	1830
Water-heater. Instantaneous	G. Wilson	639,478	Dec. 19	2392	550, 551	89	2370
Water heater or analogous device	T. C. Witherspoon	631,898	Aug. 29	3916	876	88	1555
Water-heater. Solar	C. A. Davis	629,122	July 18	2195	509, 510	88	466
Water-heater. Tubular gas	J. Mander	639,417	Dec. 19	2279	527	89	2347
Water-heating apparatus	M. H. Dorgan	619,876	Feb. 21	2008	456	86	1245
Water-heating apparatus	E. W. Higbee	636,141	Oct. 31	4106	939, 940	89	870
Water-heating apparatus	A. Stäge and C. Tornow	632,854	Sept. 12	1225	280	88	1966
Water in cylinder-jackets. Circulation of	E. Bernardi	623,869	Apr. 25	3092	712	87	649
Water-lifting apparatus	P. S. Nowacki	635,504	Oct. 24	2866	654	89	614
Water-meter	G. B. Bassett	617,946	Jan. 17	2073	465	86	444
Water-meter	G. B. Bassett	626,518	June 6	550	127	87	1720
Water-meter	G. B. Bassett	626,519	June 6	551	127	87	1720
Water-meter	G. B. Bassett	626,647	June 6	773	176	87	1764
Water-meter	G. B. Bassett	627,088	June 20	1622	355	87	1966
Water-meter	O. Beckmann	630,441	Aug. 8	1380	309	88	1005
Water-meter	J. Thomson	618,192	Jan. 24	2569	568	86	551
Water-meter. Automatic	J. C. Ulrich	638,657	Dec. 5	876	191, 192	89	2035
Water-meter. Disk	J. Thomson	618,193	Jan. 24	2570	568	86	551
Water-meter. Disk	J. Thomson	618,302	Jan. 24	2761	612	86	588
Water-meter pipe connection	J. Thomson	618,194	Jan. 24	2571	568	86	551
Water-meters. Apparatus for removing foreign substances from	J. Keim	637,266	Nov. 21	2012	431	89	1362
Water-motor	R. M. Blackmer	639,011	Dec. 12	1529	350	89	2184
Water-motor	J. F. Curry	621,036	Mar. 14	958	208	86	1699
Water-motor	G. O. Heen	627,117	June 20	1676	367, 368	87	1977
Water motor. Superheated	M. Hutin and M. Leblanc	639,394	Dec. 19	2236	517	89	2340
Water out of wells. Device for forcing	A. Baca	637,694	Nov. 21	3186	660	89	1634
Water-pipe connection. Movable	H. H. Gorter	637,507	Nov. 21	2463	534	89	1452
Water-pipe trap	J. D. Q. Hamilton	635,383	Oct. 24	2615	604	89	564
Water-pressure regulator	T. A. Evans	623,773	Apr. 25	2910	665	87	615
Waterproof. Composition for rendering garments	G. F. Newman	639,087	Dec. 12	1641	------	89	2205
Waterproof. Making cloth	S. J. Harwood	625,030	May 16	1973	------	87	1124
Waterproof sidewalk, floor, or roof construction	P. H. Jackson	638,870	Dec. 12	1272	289	89	2133
Water purifier and elevator. Combined	J. W. Hammett	635,682	Oct. 24	3184	733	89	676
Water. Purifying	J. Wilson	619,917	Feb. 21	2069	------	86	1256
Water. Purifying	J. Wilson	619,918	Feb. 21	2070	------	86	1256
Water. Purifying	J. Wilson	629,409	July 25	2714	------	88	585
Water. Purifying	J. Wilson	629,410	July 25	2715	------	88	585
Water. Purifying	J. Wilson	629,411	July 25	2715	------	88	585
Water-purifying apparatus	F. G. Du Pont	620,234	Feb. 28	2630	599	86	1376
Water-purifying apparatus	E. A. Leland	629,377	July 25	2650	616	88	571
Water-purifying apparatus	M. Otto	624,527	May 9	1075	241	87	930
Water-purifying apparatus	A. Schantz	638,421	Dec. 5	450	93	89	1952
Water-purifying apparatus. Refuse	H. Riensch	623,828	Apr. 25	3012	692	87	635
Water-purifying apparatus. Waste	J. Delattre	636,497	Nov. 7	458	102	89	1013
Water-purifying means	E. Maginn	629,578	July 25	3031	708	88	645
Water reservoir and cooler	B. Metcalf	617,035	Jan. 3	332	79	86	65
Water-return apparatus. Automatic	J. McAllister and H. E. Barlow	623,554	Apr. 25	2501	575	87	537
Water-service system	E. G. Harris	623,470	Apr. 18	2339	537	87	489
Water-sprinkler	T. Babin	620,728	Mar. 7	357	73	86	1571
Water-sterilizing apparatus	L. Maiche	639,592	Dec. 19	2585	594	89	2410
Water-supply for buildings	E. A. Leland	629,376	July 25	2649	615	88	571
Water-supply reservoir. Portable	T. M. Jefferson	638,339	Dec. 5	288	59	89	1921
Water-supplying apparatus	A. S. Gear	618,224	Jan. 24	2616	578, 579	86	559
Water-tank	C. Farmer	625,494	May 23	2803	638	87	1306
Water-tank heater and feed-cooker	E. E. Miller	621,359	Mar. 21	1529	340	86	1824
Water-tower	C. Damm	617,228	Jan. 3	697	162	86	136
Water-tower and extension-ladder	W. Barnard	635,639	Oct. 24	3109	714	89	661
Water-trough	H. C. Foltz	623,208	Apr. 18	1877	430	87	394
Water-tube boiler	W. E. Berry	620,408	Feb. 28	2926	669, 670	86	1433
Water-tube boiler	P. D. Blackden	635,710	Oct. 24	3226	743	89	685
Water-tube boiler	H. Blessinger	637,701	Nov. 21	3197	663	89	1636
Water-tube boiler	H. Blessinger	639,507	Dec. 19	2432	562	89	2378
Water-tube boiler	M. P. Boss	634,978	Oct. 17	1840	436	89	399
Water-tube boiler	J. R. Brownell	636,627	Nov. 7	719	157	89	1066
Water-tube boiler	W. J. Ehrsam	620,897	Mar. 14	669	146	86	1646
Water-tube boiler	P. J. Keene	637,616	Nov. 21	3037	625, 626	89	1604
Water-tube boiler	P. J. Keene	637,617	Nov. 21	3039	627, 628	89	1604
Water-tube boiler	J. M. Maxwell	634,303	Oct. 3	627	152, 153	89	126
Water-tube boiler	A. S. Vogt	634,045	Oct. 3	108	28	89	25
Water-tube boiler	E. C. De Yarmett and E. M. Haynes	633,575	Sept. 26	2597	608	88	2259
Water-tube boiler	W. W. McKelvey	630,259	Aug. 1	972	213, 214	88	914
Water-tube boiler	W. Penman	632,198	Aug. 29	4587	1033	88	1685
Water-tube boiler	E. R. Stettinius	626,731	June 13	941	213	87	1815
Water-tube boiler	E. R. Stettinius	628,044	July 4	154	32	88	32
Water-wheel	N. K. Bowman	627,044	June 13	1539	336, 337	87	1931
Water-wheel	W. A. Doble	619,148	Feb. 7	672	144	86	943
Water-wheel	W. A. Doble	619,149	Feb. 7	674	145	86	943
Water-wheel	P. Henretty	629,250	July 18	2411	558	88	504

Alphabetical list of inventions—Continued.

Invention.	Name.	No.	Date.	Monthly volume. Spec.	Monthly volume. Dr'g.	Official Gazette. Vol.	Official Gazette. Page.
Water-wheel	R. B. Kummer	626,619	June 6	709	164	87	1752
Water-wheel	J. J. Lefeber	628,946	July 18	1874	434, 435	88	402
Water-wheel	A. H. Lighthall	624,350	May 2	741	165, 166	87	842
Water-wheel	S. F. Swanson	617,061	Jan. 3	394	96	86	76
Water-wheel bucket	F. K. Blue	617,555	Jan. 10	1321	297	86	276
Water-wheel bucket or vane	A. H. Lighthall	624,349	May 2	739	165	87	842
Water-wheel casing	W. J. Krase	633,962	Sept. 26	3281	764	88	2393
Water-wheel. Current	T. J. Ingels	638,123	Nov. 28	4011	844, 845	89	1817
Water-wheel. Current	J. P. Whidden	619,005	Feb. 7	404	84	86	889
Water-wheel regulating apparatus	S. N. Knight	625,337	May 23	2532	576	87	1254
Water-wheel system	A. C. Rice	621,141	Mar. 14	1143	248	86	1735
Water-wheel. Tangential	W. A. Doble	633,184	Sept. 19	1851	436	88	2098
Water-wheel. Turbine	C. Brimer	630,482	Aug. 8	1457	326	88	1021
Water-wheel. Turbine	E. W. Cram	617,281	Jan. 3	799	186	86	157
Water-wheel. Turbine	W. M. Mills	629,457	July 25	2795	650	88	601
Water-wheel. Turbine	J. Sharpe	624,692	May 9	1362	304, 305	87	987
Water-wheel. Turbine	W. W. Tyler	634,967	Oct. 17	1820	431	89	394
Waterworks-separator	F. A. W. Davis	629,846	Aug. 1	169	39, 40	88	754
Waterworks system	P. J. Moran	634,015	Oct. 3	62	17	89	16
Waters. Apparatus for purifying effluent	W. and W. E. Greig	622,423	Apr. 4	398	92	87	74
Waterer. Automatic stock-	E. A. Losee	619,081	Feb. 7	537	113	86	915
Waterer. Stock-	W. A. Connell	617,827	Jan. 17	1857	415	86	401
Waterer. Stock-	O. Ditsworth	635,754	Oct. 31	3331	770	89	718
Waterer. Stock-	A. Glenn	638,842	Dec. 12	1220	274, 275	89	2124
Waterer. Stock-	D. Hufnagel	623,545	Apr. 25	2487	571	87	535
Watering-cart and fire-engine. Automobile	C. W. Collyer	638,864	Dec. 12	1256	284, 285	89	2130
Watering fountain. Automatic stock-	C. Pelmulder	628,112	July 4	297	70	88	59
Watering live stock. Device for	L. Pray	623,382	Apr. 18	2189	502	87	437
Watering-trough	G. W. Ehrman	637,242	Nov. 21	1975	422	89	1355
Watering-trough. Automatic	F. Marsh	621,610	Mar. 21	1972	440	86	1908
Watering-trough. Automatic	C. H. Presbrey	622,533	Apr. 4	636	149	87	121
Watering-trough. Automatic	C. H. Presbrey	634,504	Oct. 10	999	239	89	217
Watering-trough. Automatic	T. E. Stevens	616,986	Jan. 3	232	53, 54	86	46
Wattmeter for three-phase alternating currents. Motor-	J. A. Möllinger	637,473	Nov. 21	2400	520, 521	89	1440
Wattmeter. Inspector's indicating-	F. P. Cox	625,830	May 30	3418	776	87	1444
Wave and tide power	C. M. Johnson	639,733	Dec. 26	2855	657, 658	89	2480
Wave and tide power	C. M. Johnson	639,734	Dec. 26	2858	658, 659	89	2481
Wave-motor	W. A. Cheney	632,833	Sept. 12	1103	272	88	1960
Wave-motor	H. C. Essington	625,101	May 16	2111	479, 480	87	1148
Wave-motor	M. Gehre	628,458	July 11	949	221, 222	88	202
Wave-motor	J. E. Hartwell	626,162	May 30	4119	938, 939	87	1574
Wave-motor	W. A. Norton	632,139	Aug. 29	4473	1006, 1007	88	1664
Wave-motor	J. M. Palmer	623,556	Apr. 25	2505	575	87	538
Wave-motor	J. M. Palmer	623,557	Apr. 25	2508	575	87	539
Wave-motor	M. B. Rice	632,826	Sept. 12	1180	270	88	1957
Wave-motor	E. J. Ryan	627,523	June 27	2460	541, 542	87	2149
Wave-power	F. J. Hagen	625,444	May 23	2716	618	87	1288
Wave-power. Apparatus for utilizing	T. Redding	631,178	Aug. 15	2697	610	88	1287
Wave-power motor	D. K. Bryson	639,352	Dec. 19	2141	492	89	2320
Wave-power water-moving apparatus	J. Rogowski	630,006	Aug. 1	521	115	88	826
Wax-end-forming apparatus	J. F. Merrill	627,826	June 27	2999	655	87	2255
Wax-pad	F. Kaufman	630,543	Aug. 8	1576	351	88	1043
Way-bill, consignee's-receipt, and agent's-record envelop. Combined	R. A. Grout	618,662	Jan. 31	3435	766	86	731
Weather-guard	G. W. Golden	632,049	Aug. 29	4296	965	88	1628
Weather or door strip	J. A. O. Livoni	619,587	Feb. 14	1426	328	86	1106
Weather-repelling device for doors	J. C. Fernald	639,026	Dec. 12	1548	355	89	2188
Weather-shield	E. H. West	632,385	Sept. 5	322	73	88	1770
Weather-signal indicator	T. A. and H. B. Froehlich	631,161	Aug. 15	2672	604	88	1281
Weather-strip	T. M. Aspinall	630,642	Aug. 8	1750	393	88	1077
Weather-strip	A. A. Coon	633,810	Sept. 26	3010	700	88	2339
Weather-strip	O. A. Essig	625,840	May 30	3436	780	87	1448
Weather-strip	J. P. Gardner	622,138	Mar. 28	2981	673	86	2121
Weather-strip	G. W. Golden	623,364	Apr. 18	2163	497	87	451
Weather-strip	G. W. Golden	638,506	Dec. 5	611	126	89	1983
Weather-strip	G. B. Grover	630,216	Aug. 1	898	198	88	899
Weather-strip	P. L. Hedberg	626,492	June 6	507	118	87	1711
Weather-strip	B. F. Higgins	632,310	Sept. 5	192	45	88	1745
Weather-strip	J. Horsfield	632,922	Sept. 12	1362	314	88	1990
Weather-strip	G. W. Krebs	623,917	Apr. 25	3181	733	87	667
Weather-strip	E. Le May	627,264	June 20	1933	426	87	2029
Weather-strip	A. Y. Masser	625,404	May 23	2641	600	87	1275
Weather-strip	B. Murphy	620,348	Feb. 28	2832	648	86	1415
Weather-strip	A. Rose	618,733	Jan. 31	3554	793	86	754
Weather-strip	G. L. Scoville	639,831	Dec. 26	3041	700	89	2518
Weather-strip	D. H. Talbert	628,420	July 4	878	207	88	168
Weather-strip	M. Yakley and N. F. Prudden	635,708	Oct. 24	3223	742	89	684
Weather-strip. Door	F. B. Kamm	622,488	Apr. 4	543	127	87	103
Weather-strip for window-sashes	D. B. Bauder	619,657	Feb. 14	1569	357	86	1133
Weaver's pick-out and scratch-up comb	J. A. Carr	636,395	Nov. 7	284	63	89	978
Weaver's scratch-up and pick-out comb	W. Ogden	620,490	Feb. 28	3056	699	86	1458
Weaving apparatus	L. Desmarais and L. Canal	626,149	May 30	4093	933	87	1569

Alphabetical list of inventions—Continued.

Invention.	Name.	No.	Date.	Monthly volume. Spec.	Monthly volume. Drg.	Official Gazette. Vol.	Official Gazette. Page.
Weaving apparatus. Circular	C. G. Hill and R. Weiss	637,336	Nov. 21	2161	465, 466	89	1393
Weaving apparatus. Fabric-	E. Smith	635,198	Oct. 17	2256	525, 526, 527	89	480
Weaving coir-yarn mats. Machine for	K. Walker	630,954	Aug. 15	2285	519, 520, 521, 522	88	1206
Weaving double-faced fabrics	J. Caldwell	639,518	Dec. 19	2448	566	89	2382
Weaving figured fabrics. Apparatus for	R. Heggie, Jr	621,776	Mar. 21	2300	517	86	1972
Weaving pile fabrics. Apparatus for	R. N. W. Smith	634,037	Oct. 3	95	24, 25	89	23
Web feeding and pasting mechanism	L. C. Crowell	624,308	May 2	671	147, 148	87	828
Webs of material. Machine for cutting and trimming	R. L. Patterson	618,287	Jan. 24	2731	605	86	581
Wedge-cutting machine	G. M. Clubb	624,753	May 9	1463	331	87	1008
Weed and trash cutter for hoe and lister drills	E. W. Griffiths	629,559	July 25	2992	699	88	638
Weed-cutter and cultivator	F. M. Sherrill	629,015	July 18	1994	464	88	425
Weed exterminator. Perennial-	H. F. Deterding	620,429	Feb. 28	2957	678	86	1439
Weed-puller	R. Russell	639,618	Dec. 19	2634	604, 605	89	2419
Weed-seed destroyer	A. Reis	628,355	July 4	762	176, 177	88	147
Weeds. Method of and means for exterminating	C. S. Wood	619,458	Feb. 14	1223	278	86	1067
Weeder	G. B. Davison	632,961	Sept. 12	1422	328	88	2002
Weeder	L. P. Hopkins	618,098	Jan. 24	2373	530	86	515
Weeder	J. B. Kintner	624,946	May 16	1837	412, 413	87	1097
Weeder	L. B. Smith, E. R. Maine, and D. H. Pitts.	618,212	Jan. 24	2595	573	86	555
Weeder	E. E. Whipple	637,191	Nov. 14	1865	401	89	1318
Weeder	E. E. Whipple	637,192	Nov. 14	1866	401	89	1318
Weeder	E. E. Whipple	638,535	Dec. 5	660	138	89	1992
Weeder	W. S. Wright	625,078	May 16	2053	461	87	1138
Weeder. Hand-	S. Fuller	634,409	Oct. 3	828	200	89	165
Weeder-tooth	G. B. Davison	632,962	Sept. 12	1424	329	88	2002
Weeding implement	G. Cutter	637,091	Nov. 14	1655	358	89	1279
Weeding-tool	S. Percival	633,729	Sept. 26	2886	671	88	2314
Weeding-tool	J. M. Strout	630,946	Aug. 15	2274	518	88	1204
Weigher. Automatic	J. and D. D. A. Outcalt	618,129	Jan. 24	2433	543, 544	86	526
Weigher. Automatic	F. C. Stuckel	634,375	Oct. 3	772	184	89	153
Weigher. Grain-	C. L. Gardner	625,971	May 30	3679	836	87	1494
Weighing and cut-off apparatus. Automatic	A. T. Wilkins and D. Dever	632,773	Sept. 12	1075	249	88	1935
Weighing and measuring machine	S. P. Mackey	639,074	Dec. 12	1613	371	89	2200
Weighing and package-filling machine	G. W. Watson	633,253	Sept. 19	1990	467, 468, 469, 648	88	2126
Weighing and package-filling machine	G. W. Watson	633,675	Sept. 26	2788	649, 650	88	2294
Weighing and pricing machine. Automatic	M. Fischhaber	627,107	June 20	1659	362	87	1973
Weighing apparatus	G. U. Merrill	619,898	Feb. 21	2040	463	86	1250
Weighing apparatus	L. D. Orr	624,374	May 2	776	174	87	849
Weighing apparatus	J. A. Stäckig and O. Carlson	637,042	Nov. 14	1563	337	89	1263
Weighing apparatus	J. A. Stäckig and O. Carlson	639,108	Dec. 12	1687	389	89	2215
Weighing apparatus	J. A. Stäckig and O. Carlson	639,109	Dec. 12	1688	390	89	2215
Weighing apparatus	J. M. White	631,351	Aug. 22	3013	683	88	1368
Weighing apparatus. Automatic	M. E. Reisert	637,896	Nov. 28	3567	747	89	1731
Weighing apparatus. Automatic	M. E. Reisert	637,897	Nov. 28	3570	747, 748	89	1732
Weighing attachment for trucks	G. L. Banks	630,765	Aug. 8	1943	438	88	1114
Weighing-machine	C. Delaet	628,926	July 18	1839	428	88	395
Weighing-machine	S. P. Mackey	627,861	June 27	3061	669, 670	87	2268
Weighing-machine	A. L. F. Mitchell	635,698	Oct. 24	3205	739	89	680
Weighing-machine	J. A. Ostenberg	636,058	Oct. 31	3918	899, 900	89	833
Weighing-machine	J. and D. D. A. Outcalt	628,894	July 11	1765	413, 414	88	364
Weighing-machine	F. H. Richards	618,383	Jan. 24	2902	644, 645	86	614
Weighing-machine	F. H. Richards	624,379	May 2	792	178	87	852
Weighing-machine	F. H. Richards	631,052	Aug. 15	2476	561	88	1244
Weighing-machine	F. H. Richards	631,053	Aug. 15	2480	562, 563	88	1244
Weighing-machine	F. A. Richards	632,659	Sept. 5	825	192, 193	88	1872
Weighing-machine	F. H. Richards	632,660	Sept. 5	829	193, 194	88	1872
Weighing-machine	F. H. Richards	633,218	Sept. 19	1929	454, 455	88	2114
Weighing-machine	F. H. Richards	637,527	Nov. 21	2501	542, 543	89	1459
Weighing-machine	F. H. Richards	638,673	Dec. 5	917	204, 205	89	2045
Weighing-machine. Automatic	H. W. Abbott	627,464	June 27	2337	515	87	2125
Weighing-machine. Automatic	J. Christiansen and F. E. Thompson.	634,745	Oct. 10	1427	337, 338	89	301
Weighing-machine. Automatic	C. H. Cooley	632,675	Sept. 5	864	201, 202, 203	88	1880
Weighing-machine. Automatic	E. Hanak	637,989	Nov. 28	3723	784	89	1762
Weighing-machine. Automatic	F. H. Richards	618,384	Jan. 24	2920	645, 646	86	619

Alphabetical list of inventions—Continued.

Invention.	Name.	No.	Date.	Monthly volume. Spec.	Monthly volume. Drg.	Official Gazette. Vol.	Official Gazette. Page.
Weighing-machine. Automatic	F. H. Richards	638,672	Dec. 5	902	199, 200, 201, 202, 203, 204	89	2041
Weighing-machine. Automatic	W. Seward	632,284	Sept. 5	148	34	88	1736
Weighing-machine. Coin-actuated	E. B. Fenby	637,928	Nov. 28	3619	758, 759	89	1742
Weighing-machine feeding device. Automatic	A. L. F. Mitchell and W. A. Rhodes	633,555	Sept. 19	2537	595	88	2230
Weighing, measuring, and delivering provisions. Apparatus for	W. D. Wanzer	633,629	Sept. 26	2712	631, 632	88	2278
Weighing-scoop	M. Granat and L. F. Lamott	632,619	Apr. 4	778	181	87	148
Weighing-scoop	B. McKiernan	636,920	Nov. 14	1338	287	89	1217
Weighing vessel. Liquid-	J. Reusing	625,901	May 30	3555	806	87	1470
Weight and pressure indicator	E. McGarvey	633,471	Sept. 19	2394	563	88	2203
Weight and pressure recording apparatus	E. McGarvey	636,685	Nov. 7	821	182, 183	89	1089
Weight-register	H. Fairbanks	617,285	Jan. 3	805	187, 188	86	158
Weight-sorting machine	J. Kellington	636,206	Oct. 31	4219	971, 972	89	894
Weir. Automatic regulating-	E. B. Weston and W. W. Jackson	635,827	Oct. 31	3476	798, 799	89	745
Weir. Automatic regulating-	E. B. Weston and W. W. Jackson	635,828	Oct. 31	3478	799	89	746
Weir. Automatic regulating-	E. B. Weston and W. W. Jackson	635,829	Oct. 31	3480	800	89	746
Welding. Apparatus for holding carbons for electric	G. W. de Tunzelmann	626,352	June 6	251	59	87	1662
Welding apparatus. Pipe-	C. Twer	635,822	Oct. 31	3465	796	89	744
Welding machine. Chain-	H. Spühl	619,850	Feb. 21	1954	443, 444	86	1236
Welding machine. Socket-	A. G. Heinle	635,097	Oct. 17	2075	488	89	446
Welding mechanism	G. F. Sievern	628,168	July 4	393	92, 93	88	80
Welding metals	A. W. Andersen	628,427	July 4	890	------	88	171
Welding wire fabrics. Machine for electrically	J. C. Perry	633,214	Sept. 19	1917	451, 452	88	2111
Well attachment. Artesian-	F. Cavallaro	627,250	June 20	1901	419	87	2022
Well attachment. Artesian-	F. Cavallaro	627,251	June 20	1902	419	87	2022
Well-boring device	W. W. Horr	622,473	Apr. 4	505	120	87	95
Well-boring rig	A. Fauck	631,423	Aug. 22	3152	715	88	1395
Well-cementing apparatus	A. Baca	637,693	Nov. 21	3185	660	89	1633
Well cleaning, drilling, and pumping apparatus. Deep-	W. D. Black	635,290	Oct. 24	2425	565	89	529
Well drilling and pumping rig. Oil or Artesian	C. C. Howell	631,504	Aug. 22	3304	751	88	1425
Well-drilling apparatus	J. Reid	626,933	June 13	1349	297	87	1893
Well-drilling machine	P. B. Freeman	622,459	Apr. 4	470	110, 111	87	87
Well-drilling machine	A. Rodefeld	623,182	Apr. 18	1833	419, 420	87	384
Well-drilling machine	D. D. Ward	617,894	Jan. 17	1988	444	86	427
Well-drilling machinery	C. F. Rigby	632,537	Sept. 5	611	140	88	1828
Well-drilling-tool coupling	J. F. W. Kuehn and P. Wohlfahrt	634,114	Oct. 3	244	61	89	52
Well-drilling-tool jar	H. W. Rank	631,177	Aug. 15	2696	610	88	1286
Well-drilling-tool wrench	C. L. Dunham	632,555	Sept. 5	646	150	88	1834
Well-operating apparatus	J. A. and A. V. McAllister	639,601	Dec. 19	2601	597	89	2413
Well packer. Oil-	J. Darling	625,648	May 23	3063	698	87	1358
Well point. Drive-	W. A. Swaby	634,312	Oct. 3	650	158	89	132
Well sand-screen. Water-	B. F. Hudson	628,468	July 11	972	225	88	208
Well-tube lifting apparatus	A. Bergerson	638,001	Nov. 28	3762	790	89	1769
Well-ventilator. Solar-heating automatic	E. T. Perdue	627,010	June 13	1493	326	87	1923
Wells and separating bitumen from its impurities. Apparatus for raising bituminous sand from	A. S. Cooper	636,117	Oct. 31	4062	929	89	861
Wells. Device for increasing flow in oil-	J. B. Wheeler	626,949	June 13	1378	303	87	1899
Wells. Device for raising bailless buckets from	M. V. Shoffner	621,380	Mar. 21	1505	347	86	1830
Wells. Device for removing buckets, &c., from	M. V. Shoffner	621,379	Mar. 21	1564	347	86	1830
Wells. Packer for oil or like	G. Palm	628,210	July 4	469	112	88	93
Wells. Tubing or casing joint for Artesian and oil	T. J. Bray	619,821	Feb. 21	1893	432	86	1222
Welt-attaching machine	P. A. Coupal and W. Gordon	618,027	Jan. 17	2218	495	86	471
Wheat-drier	A. Johnson	630,892	Aug. 15	2177	494, 495	88	1186
Wheat for sowing. Apparatus for selection of	J. F. Mathias	628,827	July 11	1654	382, 383	88	344
Wheel: *See* Ball-bearing wheel. Bicycle-wheel. Bicycle sprocket-wheel. Car-wheel. Current-wheel. Cycle driving-wheel. Elastic wheel. Elastic or resilient wheel. Engine-wheel. Fifth-wheel. Gear-wheel. Grinding-wheel. Locomotive driving-wheel. Metal wheel. Motor-wheel. Paddle-wheel. Pleasure-wheel. Pneumatic wheel. Pneumatic-tired wheel. Polishing-wheel. Propeller-wheel. Rubber-tired wheel. Sheet-metal wheel. Skate-wheel. Spring-wheel. Sprocket-wheel. Sprocket driving-wheel. Surfacing-wheel. Tension-wheel. Traction-wheel. Trolley-wheel. Variable-diameter wheel. Vehicle-wheel. Vehicle driving-wheel. Vehicle motor-wheel. Water-wheel. Wind-wheel.							
Wheel	W. S. Blaisdell	619,660	Feb. 14	1572	358	86	1134
Wheel	C. R. Davis	631,986	Aug. 29	4175	939	88	1604
Wheel	J. Donovan	636,958	Nov. 14	1400	298	89	1229

Alphabetical list of inventions—Continued.

Invention.	Name.	No.	Date.	Monthly volume. Spec.	Monthly volume. Dr'g.	Official Gazette. Vol.	Official Gazette. Page.
Wheel	J. W. Eisenhuth	636,900	Nov. 14	1278	275	89	1207
Wheel	J. W. Eisenhuth	639,543	Dec. 19	2502	577	89	2392
Wheel	D. Goeke and A. Knaack	629,442	July 25	2769	643	88	596
Wheel	M. Gratz and G. W. Shaw	627,998	July 4	77	14	88	16
Wheel	W. L. Huffman	624,036	May 2	156	34	87	732
Wheel	W. Ives	630,705	Aug. 8	1850	417, 418	88	1096
Wheel	F. J. Mercer	637,470	Nov. 21	2396	519	89	1440
Wheel	G. W. Morse	636,274	Nov. 7	88	21	89	940
Wheel	F. Pfeffer	623,621	Apr. 25	2622	599	87	560
Wheel	J. S. Rowell	625,419	May 23	2673	608	87	1280
Wheel	C. H. Smith	628,862	July 11	1712	400	88	354
Wheel and axle	G. S. Strong	636,012	Oct. 31	3837	882	89	816
Wheel-center	J. Evans and R. W. Healey	624,093	May 2	89	19, 20	87	719
Wheel-chair	E. B. Taylor	621,178	Mar. 14	1199	261, 262	86	1747
Wheel for automobiles or other vehicles	J. C. Anderson	637,691	Nov. 21	3182	659	89	1633
Wheel for cycles, &c	F. W. Jones	632,574	Sept. 5	672	155	88	1839
Wheel guard or fender. Vehicle-	E. Kelly	617,101	Jan. 3	465	112	86	91
Wheel guard or shoe	F. Divelbiss	635,921	Oct. 31	3663	845	89	781
Wheel mud-guard. Vehicle-	J. P. Murphy	617,538	Jan. 10	1290	292	86	271
Wheel-rim	E. M. Birdsall	627,042	June 13	1535	335	87	1930
Wheel-rim	J. Craig	619,141	Feb. 7	657	141, 142	86	940
Wheel rim and tire	T. Downing	624,763	May 9	1484	337	87	1012
Wheel rim and tire. Combined	J. S. Haldeman	627,458	June 20	2323	512	87	2105
Wheel rim. Bicycle-	G. Beacock	622,176	Mar. 28	3050	691	86	2135
Wheel-rim for cycles or other vehicles	C. W. Atkinson	619,246	Feb. 7	844	185	86	978
Wheel-rim for elastic tires	G. A. Smith	633,917	Sept. 26	3199	745	88	2377
Wheel-rim for pneumatic tires	H. Loog and R. R. Gubbins	636,153	Oct. 31	4121	943	89	873
Wheel-scraper	J. W. Whipp	621,882	Mar. 28	2504	559	86	2028
Wheel-tightening device	L. Buis	620,639	Mar. 7	170	36	86	1535
Wheel-truing device	J. G. Schmidt	621,153	Mar. 14	1160	252	86	1738
Wheel-washing apparatus	O. A. Hoyt	617,397	Jan. 10	1042	236	86	222
Wheel with traction-rim	C. M. Dissosway	635,128	Oct. 17	2139	500	89	458
Wheel-wrench	W. J. Fay	636,649	Nov. 7	755	165	89	1074
Wheels. Apparatus for making vehicle-	L. Rakus	617,047	Jan. 3	371	90	86	71
Wheels, &c. Manufacture of wrought-iron or steel spoke-	H. Ehrhardt	628,080	July 4	222	51	88	45
Wheels, pulleys, &c. Apparatus for manufacturing	W. Malam	619,197	Feb. 7	760	164, 165	86	961
Wheelbarrow	J R. Carpenter	617,278	Jan. 3	795	185	86	156
Wheelbarrow	W. J. Freed	638,106	Nov. 28	3970	835	89	1808
Wheelbarrow	V. A. Gates	620,580	Mar. 7	52	10	86	1512
Wheelbarrow	H. Gries	630,689	Aug. 8	1828	412	88	1091
Wheelbarrow attachment	C. W. Kauffman	633,648	Sept. 26	2738	637, 638	88	2283
Wheelbarrow-tray	M. V. Garver	634,450	Oct. 10	909	218	89	199
Wheeled chair	W. J. Streng	617,058	Jan. 3	390	95	86	76
Wheelwright-machine	J. P. Dines	620,108	Feb. 28	2412	545	86	1335
Whiffletree	F. W. Chickering	630,326	Aug. 8	1120	245	88	958
Whiffletree	C. H. Falkenstein	631,565	Aug. 22	3426	774	88	1449
Whiffletree	E. T. Harlow	629,681	July 25	3211	748	88	680
Whiffletree	W. H. Webb	633,330	Sept. 19	2151	504	88	2157
Whiffletree and shaft attachment for vehicles	H. E. Westby	621,880	Mar. 28	2499	557	86	2027
Whiffletree-coupling	G. E. Fariss	639,555	Dec. 19	2531	581	89	2398
Whiffletree-coupling	A. Kast and W. Rabich	617,577	Jan. 10	1369	310	86	285
Whiffletree-coupling	C. Kretschmer	636,813	Nov. 14	1115	239	89	1174
Whiffletree-coupling	J. W. Neal	622,705	Apr. 11	953	220	87	201
Whiffletree-coupling	G. S. Thompson	639,462	Dec. 19	2363	544	89	2364
Whiffletree-hook	H. H. Allen	630,836	Aug. 15	2077	469	88	1166
Whiffletree-hook	W. E. Morgan	618,960	Feb. 7	298	64	86	869
Whiffletree-hook	H. Olson	624,373	May 2	775	174	87	849
Whiffletree-hook	C. H. W. Relyea	634,835	Oct. 10	1578	371	89	330
Whiffletree-hook	J. L. Riter	630,469	Aug. 8	1440	322	88	1017
Whiffletree-hook	J. Schnabel	621,464	Mar. 21	1717	381	86	1859
Whip	H. D. Beman	629,886	Aug. 1	253	56	88	769
Whip and rein holder. Combined	J. H. Sullivan	622,931	Apr. 11	1349	310	87	276
Whip-butts. Loading for	F. P. Couse	630,665	Aug. 8	1792	404	88	1084
Whip-centers. Machine for twisting and stretching rawhide	J. P. Donovan	633,433	Sept. 19	2335	551	88	2192
Whip-holder	D. A. Hamer	621,409	Mar. 21	1607	356	86	1838
Whip holding and controlling mechanism	W. E. Vogel	623,228	Apr. 18	1908	438	87	400
Whip-socket	J. H. Cooper	626,651	June 6	778	177	87	1765
Whip-socket	E. W. Scott	632,971	Sept. 12	1436	332	88	2004
Whip-socket and rein-holder. Combined	G. W. Hyde	618,680	Jan. 31	3461	772	86	736
Whip-socket and rein-holder. Combined	T. J. Welch	621,877	Mar. 28	2487	555	86	2025
Whip-socket. Spring-lock	H. Paul	637,407	Nov. 21	2293	493	89	1419
Whip-support	P. V. Stump	635,201	Oct. 17	2261	527	89	480
Whisking or mixing machine	G. S. and W. K. Baker	638,830	Dec. 12	1202	269, 270, 271	89	2120
Whist. Apparatus for playing duplicate	H R. Griffen	619,404	Feb. 14	1123	254, 255	86	1049
Whist-board	C. Shuman	638,602	Dec. 5	780	169	89	2015
Whist board. Duplicate-	M. C. Ryan	624,104	May 2	292	61	87	757
Whist. Indicator for duplicate	C. A. Watson	630,787	Aug. 8	1983	448	88	1123
Whist playing and studying apparatus	C. H. Landenberger	623,376	Apr. 18	2180	501	87	455
Whistle	F. L. Johnson	620,037	Feb. 21	2280	517	86	1296
Whistle	F. L. Johnson	632,184	Aug. 29	4570	1029	88	1683
Whistle. Bird-	J. F. Wherry	634,928	Oct. 17	1741	413	89	378
Whistle or call	J. F. Marsters	623,728	Apr. 25	2793	639	87	592
Whistle-valve	F. Lane	636,907	Nov. 14	1300	280	89	1211
Whiting. Manufacturing	R. P. Johnson	626,865	June 13	1222	270	87	1868
Wick	C. L. Marshall	632,902	Sept. 12	1328	305	88	1983
Wick-adjusting device. Lamp-	W. H. Stimpson	623,931	Apr. 25	3205	738	87	671

Alphabetical list of inventions—Continued.

Invention.	Name.	No.	Date.	Monthly volume. Spec.	Monthly volume. Drg.	Official Gazette. Vol.	Official Gazette. Page.
Wick and method of manufacture. Lamp-	J. W. Hyatt	638,247	Dec. 5	84	19	89	1883
Wick for incandescent oil-lamps	C. L. Marshall	632,903	Sept. 12	1329	305	88	1984
Wick-raiser-locking device	E. E. Northway	624,074	May 2	230	49	87	746
Wick raising or lowering attachment for burners	R. W. McFarland	634,762	Oct. 10	1456	343	89	306
Wick trimmer. Circular-lamp-	F. P. Morneau	622,510	Apr. 4	573	134	87	108
Wig foundation	C. C. Cotin	619,823	Feb. 21	1896	433	86	1223
Winch. Power-	H. P. Hansen	625,974	May 30	3690	839	87	1496
Winches. Anchoring means for power-	H. C. Goddard	624,010	May 2	103	22	87	723
Wind-board	M. T. Reeves and J. N. Kailor	620,358	Feb. 28	2850	651, 652	86	1419
Wind-engine	W. D., W. M., and A. M. Staplin	618,807	Jan. 31	3686	825, 826	86	781
Wind-motor	J. Elniff	625,296	May 16	2450	556, 557	87	1212
Wind-motor	J. R. Emery	634,082	Oct. 3	170	43	89	38
Wind-motor	J. S. Landon	640,003	Dec. 26	3351	767	89	2580
Wind-wheel	J. F. Fisher	622,420	Apr. 4	395	91	87	73
Wind-wheel	J. B. Girard	634,168	Oct. 3	342	87	89	71
Wind-wheel	O. Rubarts	623,428	Apr. 18	2273	520	87	475
Wind-wheel regulator	W. W. Chaney	636,952	Nov. 14	1392	296, 297	89	1228
Wind-wheels. Automatic regulator for	E. G. Harris	617,877	Jan. 17	1951	437	86	420
Wind-wheels. Automatic regulator for	K. K. Lerol, Jr	631,725	Aug. 22	3715	834	88	1505
Winder. Bobbin-	D. G. Baker	626,403	June 6	354	82, 83, 84	87	1682
Winding device	J. E. Barbour	619,266	Feb. 14	893	200	86	1003
Winding-drum	E. T. Wright	628,977	July 18	1924	448	88	412
Winding-frame	C. Jones	623,404	Apr. 18	2228	510	87	465
Winding-machine	S. Berard	622,103	Mar. 28	2902	657	86	2105
Winding-machine	P. H. Curley	625,305	May 16	2463	560	87	1214
Winding-machine	S. M. Green	630,343	Aug. 8	1161	255	88	967
Winding-machine	J. Hubbard	626,998	June 13	1474	323	87	1919
Winding-machine	D. McTaggart	631,876	Aug. 29	3983	891	88	1568
Winding-machine	G. Sipp	627,211	June 20	1828	400	87	2007
Winding-machine	G. F. Sturgess	625,855	May 30	3463	786	87	1453
Winding machine. Cop-	D. G. Baker	617,071	Jan. 3	406	99, 100	86	79
Winding machine. Thread-	J. F. Schenck	638,360	Dec. 5	335	71, 72	89	1930
Winding machine. Thread-	F. A. Whitmore	637,438	Nov. 21	2341	505, 506	89	1429
Winding-machine thread-oiling device	E. E. Kilbourn	619,893	Feb. 21	2032	461	86	1249
Winding-machines. Automatic stop and tension device for	I. E. Palmer	619,497	Feb. 14	1289	295	86	1081
Winding mechanism	G. L. Brownell	621,484	Mar. 21	1752	390	86	1865
Winding mechanism	G. F. Read	635,979	Oct. 31	3768	870	89	802
Winding webs into rolls. Device for	T. H. Savery	634,479	Oct. 10	958	228, 229	89	209
Windlass	E. M. Carr	619,864	Feb. 21	1981	450	86	1240
Windlass	W. H. Harfield	618,203	Jan. 24	2584	571	86	554
Windlass	G. W. Morgan	631,653	Aug. 22	3569	804, 805	88	1478
Windlass	C. A. Morrison	639,596	Dec. 19	2591	595	89	2411
Windlass	W. T. Wood	620,007	Feb. 21	2218	504	86	1284
Windlass. Ship's	J. B. Cowper	621,489	Mar. 21	1760	393	86	1867
Windmill	H. H. Bergsland	620,838	Mar. 7	555	119	86	1610
Windmill	J. N. Bruce	631,982	Aug. 29	4166	936, 937	88	1602
Windmill	A. M. Carlson	622,115	Mar. 28	2929	664, 665	86	2110
Windmill	M. W. Goodrich	619,954	Feb. 21	2130	482	86	1268
Windmill	L. K. Hong	623,402	Apr. 18	2225	510	87	465
Windmill	C. B. and W. J. Lane	626,814	June 13	1095	246	87	1844
Windmill	P. O. Lutnes	628,011	July 4	97	20	88	20
Windmill	J. Miller	633,879	Sept. 26	3138	728	88	2365
Windmill	J. Muir	628,412	July 4	861	202	88	165
Windmill	O. Olsson	626,559	June 6	615	141, 142	87	1734
Windmill	C. Prejean	639,091	Dec. 12	1650	381, 382	89	2206
Windmill	A. J. Smalley	619,627	Feb. 14	1507	344	86	1122
Windmill	D. W. Smith	638,603	Dec. 5	781	169, 170	89	2015
Windmill	R. W. Smith	628,497	July 11	1019	237, 238	88	217
Windmill	C. C. Thompson	625,614	May 23	2997	683	87	1345
Windmill	G. P. Youmans	617,068	Jan. 3	404	98	86	78
Windmill and pump coupling	F. A. Bagley	639,494	Dec. 19	2414	457	89	2374
Windmill-brake	A. R. Dempster and W. D. Rinehart	637,326	Nov. 21	2136	460	89	1387
Windmill-gearing	C. E. Smith	633,619	Sept. 26	2696	627	88	2275
Windmill-gearing	R. A. Thompson	622,089	Mar. 28	2876	648	86	2100
Windmill power-equalizer	J. H. Dietz	622,842	Apr. 11	1194	278	87	246
Windmill-regulator	A. Hérisson	637,736	Nov. 21	3252	678	89	1648
Windmill-regulator	J. F. Patterson	636,354	Nov. 7	212	46	89	963
Windmill-regulator	B. M. Totdahl	632,929	Sept. 12	1370	316	88	1991
Windmill-regulator. Automatic	H. F. A. Bruns and F. E. Eldridge	630,445	Aug. 8	1386	311	88	1007
Windmill-regulator. Automatic	A. Rockenbaugh and D. J. Miller	639,827	Dec. 26	3034	698	89	2517
Windmill-regulator. Automatic hydraulic	H. Woodmanse	617,794	Jan. 17	1795	402	86	388
Windmill-tower	M. C. Robbins	637,420	Nov. 21	2313	499	89	1423
Window	C. W. Bolton	629,419	July 25	2727	633, 634	88	587
Window	H. K. Doolittle	626,057	May 30	3888	883	87	1532
Window	W. J. Dunn	631,564	Aug. 22	3424	773, 774	88	1449
Window	E. Hipolito	618,462	Jan. 31	3068	679	86	660
Window	J. C. Hood	626,615	June 6	703	162	87	1751

Alphabetical list of inventions—Continued.

Invention.	Name.	No.	Date.	Monthly volume. Spec.	Monthly volume. Dr'g.	Official Gazette. Vol.	Official Gazette. Page.
Window	A. A. Klein	631,256	Aug. 15	2842	641	88	1316
Window	J. B. Marshall	628,104	July 4	283	66, 67	88	56
Window	M. W. Neuens	634,019	Oct. 3	66	18	89	17
Window	P. A. Petersen	621,501	Mar. 21	1785	397	86	1871
Window	M. Riley	617,186	Jan. 3	618	145	86	121
Window	M. Riley	622,539	Apr. 4	644	151	87	122
Window	F. Schoenfeldt	623,260	Apr. 18	1975	452	87	414
Window	T. S. Tripp	620,515	Feb. 28	3097	709	86	1466
Window and fixture therefor	J. H. Giesey	616,916	Jan. 3	92	20	86	20
Window and light-reflecting device	C. E. Manning	618,280	Jan. 24	2713	602	86	577
Window-bead fastener	J. H. Brown	629,887	Aug. 1	254	57	88	770
Window brace and fastener	O. J. Jenks and T. M. Himes	638,845	Dec. 12	1225	276	89	2125
Window. Cellar-	L. Tremmel	618,145	Jan. 24	2470	550	86	534
Window-chair	D. E. Owen	620,248	Feb. 28	2653	605	86	1380
Window-cleaner	M. Bourke	635,462	Oct. 24	2797	639	89	602
Window-cleaner	L. Cochrane and F. Thielemann	628,764	July 11	1543	357	88	321
Window-cleaner	H. W. Glen	629,851	Aug. 1	178	41	88	755
Window-cleaner	C. R. Keyser	622,809	Apr. 11	1124	260	87	233
Window-cleaner	C. G. Mitchell	624,843	May 9	1652	373	87	1044
Window-cleaner	M. Nasberg	628,022	July 4	113	23	88	24
Window-cleaner	J. S. Wertsbaugher	629,835	Aug. 1	149	34	88	750
Window-cleaning guard	J. Christensen	630,592	Aug. 8	1663	373	88	1061
Window-fastener	W. S. James	629,446	July 25	2779	645	88	597
Window-fastener	F. J. Lowery and F. E. Billings	620,468	Feb. 28	3023	691	86	1452
Window fastener. Storm-	G. G. Downes	626,989	June 13	1447	318	87	1913
Window-fixture	F. S. Haltom	624,482	May 9	984	219	87	913
Window-frame	A. N. McBean	639,268	Dec. 19	1979	456	89	2287
Window-frame	W. Romuender	639,866	Dec. 26	3099	713	89	2529
Window frame and sash	C. A. Eighmy	620,023	Feb. 21	2254	511	86	1291
Window frame and sash and door-casing	A. Jones and H. Harig	624,944	May 16	1835	412	87	1096
Window frame and sash. Metallic	E. F. Bertolett	621,209	Mar. 14	1250	276	86	1757
Window frame, sash, and attachments	G. Grahn	618,457	Jan. 31	3059	677	86	658
Window-glass. Illuminating	C. E Manning	631,220	Aug. 15	2764	626	88	1300
Window-guard	G. W. Golden	623,365	Apr. 18	2164	498	87	451
Window-guard	G. W. Golden	636,518	Nov. 7	502	111	89	1023
Window-guard	P. F. Jacobson	630,509	Aug. 8	1505	337	88	1029
Window in shape of ladder. Safety-	F. Scherrer	621,620	Mar. 21	1989	443, 444	86	1911
Window-lock	T. Criswick	623,236	Apr. 18	1922	441	87	403
Window lock and regulating device	L. F. Ryan	624,870	May 9	1697	384	87	1053
Window-lock. Automatic	J. Robertson	633,491	Sept. 19	2426	571	88	2210
Window-lock. Gravity	J. B. Witty and O. D. Reeves	638,037	Nov. 28	3832	806	89	1783
Window lock. Swinging-	T. B. Stevens	624,120	May 2	327	67	87	762
Window. Lookout-	G. Jobson	624,656	May 9	1297	287	87	973
Window-opener	E. Walsh, Jr	619,371	Feb. 14	1064	239	86	1037
Window-operating mechanism	J. P. Yawn	639,329	Dec. 19	2099	482, 483	89	2312
Window or curtain fixture	P. G. Emery	624,775	May 9	1508	343	87	1017
Window or door wind-guard	J. M. Lane	637,623	Nov. 21	3054	631	89	1608
Window-platform. Portable	J. Kragel	638,516	Dec. 5	626	130	89	1986
Window. Reversible	G. O. Dean	637,502	Nov. 21	2456	533	89	1451
Window. Reversible	W. T. Waterstraat	627,164	June 20	1755	385	87	1993
Window. Reversible	W. T. Waterstraat	627,165	June 20	1757	385	87	1993
Window-screen	T. E. Barr	618,828	Feb. 7	20	4	86	807
Window-screen	T. E. Barr	618,829	Feb. 7	21	4	86	807
Window-screen	T. E. Barr	618,830	Feb. 7	22	5	86	808
Window-screen	T. E. Barr	618,831	Feb. 7	24	5	86	808
Window-screen	W. W. Case	637,083	Nov. 14	1637	354	89	1276
Window-screen	J. A. Crocker	628,075	July 4	212	48	88	43
Window-screen	G. W. Golden	618,084	Jan. 24	2350	525	86	510
Window-screen	A. Graham	637,931	Nov. 28	3625	760	89	1743
Window-screen	D. W. Lloyd	627,513	June 27	2422	532	87	2141
Window-screen	D. B. Longwill	638,517	Dec. 5	627	130	89	1986
Window-screen	E. E. Mallory	619,198	Feb. 7	762	165, 166	86	961
Window-screen	E. E. Mallory	638,346	Dec. 5	300	62	89	1924
Window-screen	S. A. Patterson	630,004	Aug. 1	518	114	88	826
Window-screen	G. P. Wettlin and J. M. Peterson	619,454	Feb. 14	1217	277	86	1066
Window-screen	C. F. Warner	636,015	Oct. 31	3842	883	89	817
Window-screen	G. A. Youlden	624,418	May 2	862	194	87	867
Window-screen and controlling apparatus	T. E. Barr	618,822	Feb. 7	7	2	86	804
Window-screen-frame holder	I. Hanna	622,849	Apr. 11	1204	280	87	248
Window-screen. Roller	T. E. Barr	618,823	Feb. 7	10	2, 3	86	805
Window-screen. Roller	T. E. Barr	618,826	Feb. 7	15	3	86	806
Window-screen. Roller	T. E. Barr	618,827	Feb. 7	17	4	86	807
Window-seat	S. Cary	627,072	June 13	1587	347	87	1939
Window-seat	H. E. Knaust	623,675	Apr. 25	2715	622	87	578
Window-slide protector	G. A. Zeiser	617,386	Jan. 10	1015	232	86	217
Window. Slidable hinged	W. McCall	618,608	Jan. 31	3330	740	86	710
Window. Sliding	H. Niederländer	630,781	Aug. 8	1972	446	88	1120
Window. Sliding and swinging	J. Le Mon	622,927	Apr. 11	1343	308	87	274
Window. Sliding-sash	W. Turnbull	630,137	Aug. 1	768	166	88	875
Window-stop	A. I. Gonsalves	638,329	Dec. 5	267	55	89	1917
Window stop and lock	W. Beckerle	631,269	Aug. 22	2872	649	88	1339
Window ventilating attachment	G. M. Wagner	637,187	Nov. 14	1856	400	89	1316
Window-ventilator	C. H. Lippincott and W. W. Gilton	628,602	July 11	1217	285	88	255
Windows. Ventilating-deflector for	W. Amos	630,791	Aug. 8	1992	451	88	1125
Wine. Manufacturing	E. Keller	639,398	Dec. 19	2244	------	89	2341
Wine or lard press	C. W. Blackburn	621,517	Mar. 21	1814	403	86	1876
Wire and process of manufacture. Composite	O. M. Thowless	633,668	Sept. 26	2774	------	88	2291
Wire-and-slat-fabric-making machine	J. Branson	616,884	Jan. 3	24	5	86	7
Wire-and-slat-weaving machine	G. E. De Vore	628,774	July 11	1558	360, 361	88	324
Wire-attaching device. Stay-	B. A. Stoddard	631,681	Aug. 22	3619	816	88	1489
Wire. Barbed	F. C. Carroll	638,320	Dec. 5	250	52	89	1914
Wire bars. Producing	E. Emerson	638,917	Dec. 12	1354	309	89	2151

Alphabetical list of inventions—Continued.

Invention.	Name.	No.	Date.	Monthly volume. Spec.	Monthly volume. Dr'g.	Official Gazette. Vol.	Official Gazette. Page.
Wire caps or cork-retainers. Machine for making	F. F. Neff	625,592	May 23	2966	674	87	1338
Wire-coiling device	E. Redmond	617,353	Jan. 10	949	218	86	204
Wire crimper and shears	I. J. Neracher	627,200	June 20	1810	397	87	2003
Wire-crimping machine	J. M. Martin	626,183	May 30	4154	946	87	1582
Wire-drawing composition	H. W. Fark	618,079	Jan. 24	2333		86	508
Wire-drawing machine	C. A. Cowles	619,724	Feb. 21	1714	391, 392	86	1187
Wire-drawing machine	C. Harmann	624,018	May 2	118	26, 27	87	725
Wire-drawing machine	G. Scheel	617,053	Jan. 3	380	93	86	73
Wire-drawing-machine block	J. M. Chatfield	639,664	Dec. 19	2725	626	89	2488
Wire fabric	M. L. Severy and G. S. Heath	622,279	Apr. 4	139	32	87	30
Wire-fabric machine	E. F. Shellaberger	633,370	Sept. 19	2218	521, 522, 523	88	2170
Wire-fabric machine	P., J., and P. W. Sommer	635,405	Oct. 24	2652	613, 614, 615	89	573
Wire-fabric machine	C. E. Warner	622,406	Apr. 4	354	83, 84, 85	87	66
Wire fabric. Machine for making	E. F. Shellaberger	623,840	Apr. 25	3039	699	87	640
Wire-fabric-machine reel	P., J., and P. W. Sommer	636,362	Nov. 7	226	50, 51	89	966
Wire-fabric-machine tension and feed mechanism	H. S. Bissell	628,915	July 18	1822	424	88	392
Wire-fabric machines. Feed mechanism for	G. L. Hoxie	620,589	Mar. 7	68	13, 14	86	1516
Wire-fabric machines. Feed mechanism for	C. M. Lamb	639,409	Dec. 19	2265	523	89	2344
Wire-fastener	W. C. Greig and E. Smethurst	622,345	Apr. 4	255	59	87	49
Wire-feeding device	E. G. Hoffmann	624,491	May 9	1007	226, 227	87	917
Wire-feeding device	F. S. Huber	626,999	June 13	1476	323, 324	87	1919
Wire gate	C. C. Korns	626,545	June 6	596	137	87	1730
Wire gate	W. C. Stange	631,478	Aug. 22	3249	737	88	1414
Wire-grip	C. H. Brunk	624,449	May 9	923	206	87	902
Wire-handle-forming machine	U. D. Alexander	617,704	Jan. 17	1605	362	86	351
Wire handles. Machine for making coiled-	F. E. Church and W. C. Allen	617,317	Jan. 10	869	204	86	188
Wire. Machine for stringing drawing-dies upon	C. A. Cowles	619,723	Feb. 21	1709	390, 391	86	1186
Wire. Manufacture of compound	E. Martin	625,116	May 16	2135	485	87	1152
Wire. Manufacture of seamless compound	T. F. Carlisle	618,165	Jan. 24	2524	560	86	543
Wire-manufacturing apparatus	R. D. Sanders	625,205	May 16	2270	516	87	1179
Wire-manufacturing machinery	C. A. Cowles	618,396	Jan. 31	2953	654	86	639
Wire-reel	V. E. Edwards	627,722	June 27	2817	617	87	2219
Wire-reel	W. W. Levett	639,818	Dec. 26	3024	696	89	2515
Wire-reel	W. Milbrath	636,004	Oct. 31	3823	879	89	813
Wire reel. Barbed-	E. C. Fahrmeier	637,451	Nov. 21	2365	511	89	1433
Wire rings and attaching clips thereto. Machine for making	A. Calleson	619,937	Feb. 21	2097	476, 477	86	1261
Wire-rod-handling apparatus	V. E. Edwards	627,723	June 27	2818	617, 618	87	2220
Wire-rod mill	P. L. Day	619,036	Feb. 7	456	96	86	898
Wire-rod mill	P. L. Day	619,144	Feb. 7	662	143	86	941
Wire screen	E. Hipolito and A. Mastin	619,958	Feb. 21	2139	485	86	1269
Wire-splicer	C. G. Davis	632,446	Sept. 5	428	95	88	1791
Wire-splicing ring	J. W. Howland	626,702	June 13	892	203	87	1805
Wire-splicing tool	S. F. Nicolai	626,438	June 6	414	98	87	1693
Wire-stay-making device	G. W. Williams	638,538	Dec. 5	665	139	89	1993
Wire stays. Hand-tool for applying	J. Kuhn	621,498	Mar. 21	1780	396	86	1870
Wire-strainer	J. D. Walsh	624,273	May 2	602	130	87	813
Wire-stretcher	T. J. Andre	620,529	Feb. 28	3127	715	86	1472
Wire-stretcher	O. Andrew	640,074	Dec. 26	3481	798	89	2607
Wire-stretcher	H. C. Arnold	623,122	Apr. 18	1719	398	87	363
Wire-stretcher	W. Campbell	636,631	Nov. 7	724	158	89	1067
Wire-stretcher	A. A. Coon	620,018	Feb. 21	2246	510	86	1289
Wire-stretcher	J. W. Darlington	629,240	July 18	2390	554	88	500
Wire-stretcher	M. E. Davis	639,217	Dec. 19	1894	437	89	2268
Wire-stretcher	R. H. Elrod, B. Prickett, and A. B. Smith.	628,400	July 4	842	197	88	161
Wire-stretcher	R. J. Flick and E. Franklin	634,236	Oct. 3	491	123	89	99
Wire-stretcher	B. C. Hancock	638,051	Nov. 28	3849	809	89	1786
Wire-stretcher	W. S. King	639,815	Dec. 26	3019	695	89	2514
Wire-stretcher	R. N. Martz	625,453	May 23	2731	621	87	1291
Wire-stretcher	H. C. Pratt	625,987	May 30	3714	843	87	1501
Wire-stretcher	H. A. Robinson	630,971	Mar. 14	823	181	86	1673
Wire-stretcher	S. S. Sanders	617,189	Jan. 3	626	146	86	122
Wire-stretcher	J. S. Smith	636,075	Oct. 31	3994	913	89	847
Wire-stretcher	W. C. Smith	626,938	June 13	1357	298	87	1895
Wire-stretcher	A. B. Thorn	617,132	Jan. 3	527	125	86	103
Wire-stretcher	G. W. Warner	639,876	Dec. 26	3112	716	89	2531
Wire-stretcher	C. H. Wilson	633,632	Sept. 26	2719	633	88	2279
Wire-stretcher	E. Yankee	627,564	June 27	2521	554	87	2161
Wire-stretcher	D. P. Yates	620,629	Mar. 7	148	31	86	1531
Wire-stretching tool	C. S. Hunt	630,056	Aug. 1	624	136	88	847
Wire-supporting frame. Coiled-	C. O. Sobinski	630,269	Aug. 1	984	217	88	917
Wire swaging, heading, and bending machine. Combined	C. B. Baldwin	617,270	Jan. 3	771	180, 181	86	152
Wire-tightener	L. H. Clyborne	633,425	Sept. 19	2324	547	88	2190
Wire-tightener	J. M. Olinger	624,524	May 9	1066	240	87	929
Wire-tightener	N. J. Rasmussen	626,931	June 13	1347	296	87	1893
Wire-tightener	S. A. Rhodes	618,187	Jan. 24	2562	566	86	549
Wire-tightener	R. D. Tittle	638,298	Dec. 5	212	44	89	1907
Wire-tightening device	G. W. Terry and E. H. Stowell	640,049	Dec. 26	3432	788	89	2597
Wire-twister for making cork-retainers	F. F. Neff	625,591	May 23	2963	673, 674	87	1338
Wire-twisting machine	L. W. Noyes	619,782	Feb. 21	1825	417	86	1210
Wire-winding device	W. N. Parrish	625,056	May 16	2020	455	87	1132
Wire-winding machine	G. D. Emerson	635,039	Oct. 17	1940	460	89	418

Alphabetical list of inventions—Continued.

Invention.	Name.	No.	Date.	Monthly volume.		Official Gazette.	
				Spec.	Dr'g.	Vol.	Page.
Wire-winding machine	G. F. Matteson	630,907	Aug. 15	2203	502	88	1190
Wireworking-machine	A. C. and J. Q. Shimer	630,008	Aug. 1	525	115, 116, 117	88	827
Wireworking-machine feed mechanism	G. O. Page	625,351	May 23	2558	582	87	1258
Wires. Anchor for overhead	J. G. Buehler	617,804	Jan. 17	1811	405	86	392
Wires. Device for joining intersecting	H. R. Lamb	634,648	Oct. 10	1244	296	89	265
Wires. Device for tying intersecting	G. L. Hoxie	621,416	Mar. 21	1614	359	86	1840
Wires. Die for joining intersecting	H. R. Lamb	628,986	July 18	1942	452	88	415
Wires. Machine for wrapping stay-wires around line-	W. McCloskey	624,072	May 2	229	48	87	745
Wiring blanks. Machine for	E. P. Sheldon	635,356	Oct. 24	2585	589, 590, 591, 592, 593	89	549
Wood. Antifouling coating for	G. D. Coleman	629,427	July 25	2740	637	88	590
Wood-bending machine	C. W. and M. J. Greenwood	631,788	Aug. 29	3842	855	88	1539
Wood-bending machine	J. A. Meeks	617,756	Jan. 17	1698	382	86	370
Wood-bending machine	W. G. Shepard	636,072	Oct. 31	3982	911, 912	89	845
Wood-bending machine	N. B. Zuccarello	619,459	Feb. 14	1224	278	86	1068
Wood carpet or floor-covering	L. Molle	623,923	Apr. 25	3190	734	87	669
Wood-carving machine	J. E. Brielmaier	638,794	Dec. 12	1141	254, 255	89	2109
Wood-compressing die	H. J. Scheid	638,477	Dec. 5	558	116	89	1973
Wood-dressing machine	J. E. Almon	622,432	Apr. 4	420	97	87	78
Wood fiber. Machine for producing	H. M. Hoover	624,938	May 16	1825	409	87	1094
Wood from fibrous refuse. Manufacturing material similar to	J. Kaiser	625,450	May 23	2728	------	87	1291
Wood-hardening apparatus	G. F. Lebioda	625,042	May 16	1988	444	87	1127
Wood holder and carrier	F. Hanson and A. W. Reinnholm	625,927	May 30	3601	818	87	1479
Wood. Impregnating	F. Hasselmann	626,538	June 6	583	------	87	1727
Wood-impregnating apparatus	S. Willner	620,627	Mar. 7	143	29, 30	86	1530
Wood or ratan twisting or shaping device	A. H. Ordway	637,652	Nov. 21	3101	642	89	1617
Wood or sulfite. Device for removing splinters from ground	J. Goodfellow	628,311	July 4	691	160	88	133
Wood pavements. Elastic filling for	T. K. Muir	635,176	Oct. 17	2218	517	89	473
Wood-preserving apparatus	C. S. Chamberlain	621,774	Mar. 21	2295	516	86	1971
Wood-preserving compound	M. Arnn	633,778	Sept. 26	2971	------	88	2331
Wood. Producing imitation carvings in	J. H. Weiss	632,433	Sept. 5	398	91	88	1786
Wood-scraper	C. L. Britt	619,131	Feb. 7	635	137	86	935
Wood-splitting machine	P. F. Wise	629,144	July 18	2238	519	88	473
Wood to fiber. Machine for reducing	J. Askins	635,908	Oct. 31	3637	839	89	777
Wood with metal. Machine for covering	W. P. Appleyard	625,531	May 23	2856	650, 651	87	1317
Woods. Producing artificial	D. Lynn	625,979	May 30	3699	------	87	1498
Wooden box. Rectangular	W. L. Archer	617,999	Jan. 17	2161	482	86	460
Wooden-ware package	G. P. Fisher, Jr., and J. Reif, Jr	622,339	Apr. 4	248	57	87	47
Woodworking-machine	J. K. P. Shelton	627,147	June 20	1720	377, 378	87	1985
Wool. Apparatus for purifying wash-waters from	J. Delattre	633,688	Sept. 26	2816	655	88	2299
Wool. Cleaning	E. Maertens	630,294	Aug. 1	1041	228	88	928
Wool. Cleaning	E. Maertens	630,295	Aug. 1	1045	228	88	929
Wool. Cleaning	E. Maertens	630,296	Aug. 1	1050	228	88	929
Wool-cleaning machine	J. Brandy	636,714	Nov. 7	888	196	89	1104
Wool-cleaning process and apparatus	E. Maertens	630,293	Aug. 1	1035	228	88	927
Wool, cotton, &c. Machine for cleaning and carding	J. D. Morel	619,979	Feb. 21	2172	493, 494, 495	86	1276
Wool-fat into its products. Separating	C. Schmidt	632,791	Sept. 12	1113	------	88	1943
Wool slivers. Cleaning	E. Roussel and D. Lefebvre	633,703	Sept. 26	2842	------	88	2305
Wool-washer	F. G. Sargent	630,566	Aug. 8	1612	361	88	1051
Work-bench	V. E. Taylor	629,405	July 25	2706	629	88	583
Work-box	E. Benton	639,653	Dec. 19	2699	620	89	2433
Work-box	L. A. Sell	623,292	Apr. 18	2030	467	87	426
Work-feeding mechanism	M. Young	617,431	Jan. 10	1102	251, 252, 253	86	233
Work-holder	R. R. Lea	628,822	July 11	1647	381	88	342
Work-holder	G. O. Olin	633,893	Sept. 26	3156	733	88	2368
Work-holding stand or table	M. V. Hanscom	620,313	Feb. 28	2776	634, 635	86	1405
Wort from mash. Process of and apparatus for extracting	G. A. Bachmann	621,014	Mar. 14	904	197	86	1689
Woven fabric	J. E. Kerr	622,237	Apr. 4	66	16	87	16
Woven fabric and mode of weaving same	H. Hardwick	629,292	July 18	2478	578	88	516
Woven fabric and producing same	E. Tymeson and R. Borland	626,878	June 13	1255	275, 276	87	1875
Wrapper for glass chimneys, bottles, &c	C. F. Moffitt	639,143	Oct. 17	2170	506	89	463
Wrapping-machine	J. A. L. Barbier-Durozier	632,983	Sept. 12	1452	337	88	2007
Wrapping-machine	H. Bohls	620,637	Mar. 7	161	34, 35, 36	86	1533
Wrapping-machine	L. C. Crowell	622,841	Apr. 11	1188	276, 277, 278	87	244
Wrapping-machine	L. C. Crowell	637,374	Nov. 21	2225	479, 480	89	1405
Wrapping-machine	G. L. Gay	634,333	Oct. 3	700	167, 168	89	140
Wrapping-machine	H. Rose	621,714	Mar. 21	2168	483, 484, 485, 486	86	1948

Alphabetical list of inventions—Continued.

Invention.	Name.	No.	Date.	Monthly volume. Spec.	Monthly volume. Dr'g.	Official Gazette. Vol.	Official Gazette. Page.
Wrench:							
See Brace-wrench. Pipe and nut wrench.							
Carriage-wrench. Pipe and rod wrench.							
Hub-wrench. Ratchet-wrench.							
Monkey-wrench. Reversible wrench.							
Nipple-wrench. Screw-wrench.							
Nut-wrench. Tap-wrench.							
Nut and pipe wrench. Tire-bolt wrench.							
Pipe-wrench. Wheel-wrench.							
Wrench	A. Anderson	632,082	Aug. 29	4356	979	88	1640
Wrench	A. H. Anderson	624,149	May 2	389	79	87	774
Wrench	R. and A. W. Ashworth	627,466	June 27	2341	515	87	2126
Wrench	R. and A. W. Ashworth	628,218	July 4	478	115	88	95
Wrench	J. Beeby	631,148	Aug. 15	2649	599	88	1277
Wrench	H. Belisle	627,894	June 27	3119	683	87	2279
Wrench	C. W. Bradshaw	635,463	Oct. 24	2797	639	89	602
Wrench	M. O. Carter	637,921	Nov. 28	3605	755	89	1739
Wrench	W. V. Chisholm	620,738	Mar. 7	374	76	86	1574
Wrench	J. and R. T. Clyde	625,145	May 16	2177	494	87	1161
Wrench	F. L. Coes	631,280	Aug. 22	2889	653	88	1342
Wrench	J. H. Coes	638,956	Dec. 12	1422	325	89	2164
Wrench	J. H. Coes	638,957	Dec. 12	1423	325	89	2164
Wrench	J. H. Coes	638,958	Dec. 12	1425	325	89	2165
Wrench	C. H. Cool	623,947	Apr. 25	3296	746	87	677
Wrench	S. Davidson	637,375	Nov. 21	2283	481	89	1408
Wrench	H. A. Deiters	634,661	Oct. 10	1275	301	89	272
Wrench	C. Engstrand	636,247	Nov. 7	31	7	89	931
Wrench	N. M. Farmer	636,648	Nov. 7	753	165	89	1074
Wrench	J. H. Flanigan	639,369	Dec. 19	2191	506	89	2330
Wrench	J. Gardiner	618,859	Feb. 7	73	15	86	818
Wrench	W. Gleason	635,767	Oct. 31	3355	776	89	722
Wrench	C. T. Guild	620,121	Feb. 28	2437	551	86	1340
Wrench	A. L. Hamilton	637,251	Nov. 21	1988	426	89	1357
Wrench	J. H. Hanson	618,506	Jan. 31	3155	697	86	676
Wrench	C. C. Harpold	622,428	Apr. 4	406	93	87	76
Wrench	O. Hastings	620,772	Mar. 7	435	90	86	1586
Wrench	C. L. Henderson	618,571	Jan. 31	3269	725	86	698
Wrench	J. N. Hill	624,211	May 2	487	104	87	792
Wrench	F. Hoerens	632,051	Aug. 29	4298	966	88	1629
Wrench	F. S. Hollweck	622,471	Apr. 4	498	118	87	94
Wrench	F. C. Jaeger	639,243	Dec. 19	1912	447	89	2279
Wrench	C. Johnson	620,143	Feb. 28	2474	562	86	1348
Wrench	C. F. Johnson	622,486	Apr. 4	539	127	87	102
Wrench	M. L. Keagle	636,230	Oct. 31	4276	981	89	904
Wrench	R. Klatt	620,785	Mar. 7	463	95	86	1592
Wrench	R. Klatt	636,673	Nov. 7	808	178	89	1085
Wrench	C. H. Lambkin	620,461	Feb. 28	3013	689	86	1449
Wrench	M. Lemley	619,193	Feb. 7	755	164	86	960
Wrench	R. L. Levin	634,175	Oct. 3	354	91	89	73
Wrench	R. L. Levin and C. Bongfeldt	631,801	Aug. 29	3860	860	88	1543
Wrench	H. W. Libby and C. R. Swett	640,005	Dec. 26	3354	768	89	2580
Wrench	D. Linebaugh	637,268	Nov. 21	2014	432	89	1363
Wrench	J. L. Martin	623,800	Apr. 25	2957	675	87	624
Wrench	W. C. McCowan	625,457	May 23	2737	623	87	1292
Wrench	D. B. McCune	620,485	Feb. 28	3048	697	86	1456
Wrench	A. McKaig	629,045	July 18	2047	477	88	436
Wrench	J. F. Miller	634,853	Oct. 10	1620	379	89	338
Wrench	O. M. Miller	620,477	Feb. 28	3038	695	86	1454
Wrench	J. H. Neal	628,838	July 11	1671	390	88	346
Wrench	W. M. Norcross	618,899	Feb. 7	141	31	86	832
Wrench	J. L. Nott	630,986	Aug. 15	2356	536	88	1220
Wrench	E. Olson	622,707	Apr. 11	955	220	87	201
Wrench	G. R. Polliard	627,269	June 20	1941	427	87	2030
Wrench	W. H. Preston	632,847	Sept. 12	1215	278	88	1964
Wrench	G. L. Ray and W. Peak	635,593	Oct. 24	3022	694	89	643
Wrench	W. H. Robinson	634,216	Oct. 3	435	111	89	91
Wrench	E. C. Rollins	638,474	Dec. 5	554	115	89	1973
Wrench	B. Ross	636,561	Nov. 7	593	130	89	1042
Wrench	B. I. Rydberg	623,337	Apr. 18	2112	485	87	442
Wrench	F. Searle	622,824	Apr. 11	1149	265	87	237
Wrench	J. W. and J. F. Skersick	623,188	Apr. 18	1847	423	87	387
Wrench	C. W. Smith	630,523	Aug. 8	1537	343	88	1035
Wrench	W. R. Smythe	618,485	Jan. 31	3108	688	86	668
Wrench	F. W. Stewart	630,421	Aug. 8	1350	301	88	1000
Wrench	F. W. Stewart and G. R. Van Schoick	617,369	Jan. 10	985	226	86	210
Wrench	J. M. Tilton	635,207	Oct. 17	2274	529	89	482
Wrench	F. T. Verharen	617,998	Jan. 17	2160	482	86	460
Wrench	D. K. Wilhelm and S. A. Louder	632,610	Sept. 5	724	167	88	1850
Wrench	M. Williams	639,640	Dec. 19	2677	614	89	2429
Wrench	G. E. Zeigler	627,950	June 27	3224	706	87	2303
Wrench attachment	G. W. Rouse	638,475	Dec. 5	555	115	89	1973
Wrench attachment for combination-tools	A. Metzger	626,285	June 6	122	31	87	1637
Wrench-handle	A. Plant	637,484	Nov. 21	2419	525	89	1444
Wringer:							
See Clothes-wringer. Mop-wringer.							
Wringing or pressing out liquids. Device for	G. Mönnig	634,901	Oct. 17	1699	402	89	370
Wristband cutting and turning machine	J. Firsching	632,308	Sept. 5	188	42, 43	88	1744
Wrist-pin	S. F. Field and J. Palmer	618,655	Jan. 31	3424	763	86	729
Writer. Cipher-	R. McKeighan	625,188	May 16	2248	511	87	1174
Writing and drawing instrument. Combined	B. F. Downs	617,897	Jan. 17	1998	446	86	428
Writing. Apparatus for attaining correct position of pens when	J. Fibrig	621,472	Mar. 21	1733	386	86	1862
Writing-case	R. M. Denzig	636,119	Oct. 31	4066	929	89	861
Writing, Device for use in	E. H. Lanier	617,169	Jan. 3	595	139	86	116

Alphabetical list of inventions—Continued.

Invention.	Name.	No.	Date.	Monthly volume.		Official Gazette.	
				Spec.	Dr'g.	Vol.	Page.
Writing ineradicable. Rendering	S. J. Morrow	630,255	Aug. 1	966	------	88	913
Writing-pad	R. S. C. Fuller	626,685	June 13	853	194	87	1799
Wurtzilite product and apparatus	C. E. Anthony	620,082	Feb. 21	2353	533	86	1310
Xanthin derivative and making same	F. Ach	631,757	Aug. 22	3765	------	88	1514
Xanthin derivatives and making same	E. Fischer	631,707	Aug. 22	3668	------	88	1497
Yarn. Drying	R. A. Gage	629,318	July 18	2535	590	88	528
Yarn-drying apparatus	R. A. Gage	629,158	July 18	2260	523	88	477
Yarn-drying machine	J. K. Proctor	629,270	July 18	2441	565	88	509
Yarn from filling-carriers. Device for removing waste	W. G. Eaton	619,682	Feb. 14	1613	368	86	1143
Yarn, &c. Spooled	E. Tymeson and R. Borland	626,879	June 13	1259	276	87	1876
Yarn-treating apparatus	J. Gregson	622,001	Mar. 28	2735	618	86	2072
Yeast-agitating apparatus	A. Lorenz	639,067	Dec. 12	1605	369	89	2198
Yeast. Apparatus for propagating	N. Bendixen	628,067	July 4	197	44	88	39
Yeast-powder box	L. Canon	638,319	Dec. 5	249	52	89	1914
Yeasting process	A. Myers	638,259	Dec. 5	106	25	89	1886
Yoke attachment. Neck-	J. C. Hackett	623,781	Apr. 25	2922	668	87	618
Yoke. Cattle-	A. T. Hunter	625,335	May 23	2529	575	87	1253
Yoke center. Neck-	C. F. Deplanty and H. Schockmann	629,065	July 18	2085	486	88	443
Yoke center. Neck-	C. W. McDonald	637,150	Nov. 14	1786	383	89	1303
Yoke center. Neck-	S. Pearson	629,868	Aug. 1	213	49	88	762
Yoke coupling. Neck-	E. Roenius	622,979	Apr. 11	1429	329	87	292
Yoke harness-coupling. Neck-	L. O. Snell	630,524	Aug. 8	1538	343	88	1035
Yoke. Neck-	W. H. Bayley	637,917	Nov. 28	3599	754	89	1738
Yoke. Neck-	C. Cooper	617,225	Jan. 3	688	159	86	134
Yoke. Neck-	W. Johnston	619,488	Feb. 14	1272	291	86	1078
Yoke. Neck-	R. F. King	631,264	Aug. 15	2861	646	88	1320
Yoke. Neck-	F. Novotny	626,923	June 13	1333	293	87	1890
Yoke. Neck-	E. H. Shepard	627,275	June 20	1951	429	87	2032
Zinc and copper from ores. Extraction of	H. Howard	623,154	Apr. 18	1785	------	87	376
Zinc from its ores. Extracting	C. Hoepfner	629,686	July 25	3220	------	88	682
Zinc from refractory zinc-bearing ores. Recovering	J. Jones	639,579	Dec. 19	2567	589	89	2406
Zinc or other metals. Electrolytical production of	C. Hoepfner	629,685	July 25	3216	749	88	681
Zinc upon iron. Electrodeposition of	S. O. Cowper-Coles	623,888	Apr. 25	3130	721	87	657

ALPHABETICAL LIST OF DESIGNS.

Design.	Name.	No.	Date.	Official Gazette. Volume.	Page.
Abdominal band	C. Arnold	30,458	Apr. 4	87	166
Abdominal band	A. Wardroper	30,700	May 2	87	884
Abdominal belt	J. H. Keating	30,123	Jan. 31	86	793
Advertising-bookcase	R. W. E. Southworth	30,139	Feb. 7	86	986
Advertising-cabinet	A. J. O'Neill	31,210	July 11	88	380
Advertising-card	D. W. Bennett	31,952	Dec. 5	89	2061
Advertising cigar-box opener	J. S. Barnes	31,812	Nov. 7	89	1135
Advertising-frame	H. W. Baird	30,493	Apr. 4	87	171
Advertising-medal	J. C. Bean	30,516	Apr. 11	87	348
Advertising-table	E. F. Dougherty	30,140	Feb. 7	86	987
Advertising-tag	D. W. Perry	30,753	May 16	87	1216
Aerator for cream-separators	H. S. Hunt	30,014	Jan. 17	86	480
Air-chamber	J. J. Lawler	31,191	July 11	88	376
Antirattler-spring	G. H. Fernald	31,945	Dec. 5	89	2059
Armature mounting. Electric-	J. H. Mason	32,004	Dec. 19	89	2453
Ash-receiver or similar article	D. McMillan	30,936	June 6	87	1770
Atomizer	W. C. Downey	31,892	Nov. 28	89	1852
Atomizer-body	D. B. Smith	31,678	Oct. 17	89	511
Atomizer-mounting	F. M. Underhill	31,466	Aug. 29	88	1696
Auger. Earth-	T. A. H. Falz	30,847	May 23	87	1388
Automobile-body	H. W. Alden	31,204	July 11	88	379
Automobile-body	W. H. Atwood	31,690	Oct. 17	89	513
Ax-rack	F. S. Briggs	30,492	Apr. 4	87	171
Axle dust-guard	C. L. McCallister	31,641	Oct. 10	89	344
Axle for locomobiles. Driving-	F. E. and F. O. Stanley	31,946	Dec. 5	89	2060
Axle for locomobiles. Steering-	F. E. and F. O. Stanley	31,947	Dec. 5	89	2060
Axle-frame. Locomobile	F. E. and F. O. Stanley	31,948	Dec. 5	89	2060
Axle. Wheel-	H. P. Wells	31,980	Dec. 12	89	2253
Badge	C. W. Bailey	31,114	July 4	88	177
Badge	J. T. Bailey	30,260	Feb. 28	86	1487
Badge	J. T. Bailey	30,517	Apr. 11	87	348
Badge	J. T. Bailey	30,931	June 6	87	1769
Badge	H. G. Brewer	31,058	June 27	87	2307
Badge	H. G. Brewer	31,059	June 27	87	2308
Badge	C. J. Buchheit and E. C. Loveridge	29,957	Jan. 10	86	332
Badge	T. W. Cosgrove	31,218	July 18	88	531
Badge	W. H. Craft	30,644	May 2	87	875
Badge	L. G. Craig	30,328	Mar. 14	86	1796
Badge	W. J. Crowe	31,057	June 27	87	2307
Badge	E. and U. S. De Moulin	31,618	Oct. 10	89	340
Badge	F. J. Deck	31,219	July 18	88	531
Badge	G. W. Frank	30,599	Apr. 25	87	683
Badge	M. T. Graf	30,645	May 2	87	876
Badge	G. G. Greenburg	31,617	Oct. 10	89	340
Badge	E. F. Greene	30,600	Apr. 25	87	683
Badge	J. Greenwood and F. J. Helmuth	29,916	Jan. 3	86	170
Badge	G. W. Hubbell	30,357	Mar. 21	86	1974
Badge	G. W. Hubbell	31,113	July 4	88	177
Badge	J. B. King	29,958	Jan. 10	86	332
Badge	E. M. Levy	30,601	Apr. 25	87	683
Badge	E. A. Muth	30,712	May 9	87	1062
Badge	J. M. Nabsledt	31,342	Aug. 8	88	1142
Badge	J. M. Nabstedt	31,778	Nov. 7	89	1130
Badge	H. E. Oyer	30,932	June 6	87	1769
Badge	W. A. Russell	31,296	Aug. 1	88	936
Badge	H. Schaeffer	31,514	Sept. 19	88	2232
Badge	A. E. Sipe	30,303	Mar. 7	86	1626
Badge, &c	W. S. Tarrant	31,515	Sept. 19	88	2232
Badge	G. C. Van Roden	31,060	June 27	87	2308
Badge	L. L. Whittemore	30,304	Mar. 7	86	1626
Badge	F. E. Wilkinson and C. D. Kingston	31,025	June 20	87	2108
Badge	F. E. Wilkinson and C. D. Kingston	31,026	June 20	87	2108
Badge	C. G. Willson	31,387	Aug. 15	88	1322
Badge	H. S. Winn	31,343	Aug. 8	88	1143
Badge	A. K. Womrath	31,426	Aug. 22	88	1517
Badge. Button-	G. C. Berry, N. R. Steiner, and L. S. Myler.	30,167	Feb. 14	86	1155
Badge. Campaign-	F. M. Mahan	31,573	Oct. 3	89	178
Badge or button	J. A. Kerker	30,975	June 13	87	1946
Badge or similar article	E. S. Anderson	30,386	Mar. 28	86	2155
Badge or similar article	C. W. Bingeman	30,556	Apr. 18	87	502
Badge or similar article	J. W. Mealy	31,730	Oct. 31	89	906
Badge or similar article	H. F. Smith	30,387	Mar. 28	86	2155
Badge or similar article	J. E. Smith and A. J. Messler	30,388	Mar. 28	86	2155
Bag-holder	O. Roed	30,844	May 23	87	1387
Bag or sack	A. M. Bates	31,266	July 18	88	540
Bag or sack	A. M. Bates	31,267	July 18	88	540
Bag or sack	A. M. Bates	31,268	July 18	88	540
Bag. Shopping-	O. A. Lehman	31,053	June 20	87	2111
Balance frame. Spring-	E. N. Gilfillan	30,114	Jan. 31	86	791
Ball retainer and separator	E. F. Creager	30,181	Feb. 14	86	1157
Ball retainer and separator	E. F. Creager	30,182	Feb. 14	86	1158
Ball retainer and separator	E. F. Creager	30,183	Feb. 14	86	1158

Alphabetical list of designs—Continued.

Design.	Name.	No.	Date.	Official Gazette. Vol.	Page.
Bandage. Abdominal	D. D. McClure	31,293	July 25	88	711
Bandage. Suspensor	E. A. E. Meyer	30,952	June 6	87	1773
Banjos, &c. Bridge for	F. E. Cole	30,515	Apr. 11	87	348
Banner	L. G. Reynolds	30,751	May 16	87	1216
Basin. Catch	J. J. Lonergan	30,054	Jan. 24	86	624
Basin-slab	W. H. Lloyd	32,047	Dec. 26	89	2646
Basin-stand	F. E. Bryant	30,424	Mar. 28	86	2161
Basket. Fruit	W. I. Crawford	31,931	Dec. 5	89	2057
Basket. Fruit	W. I. Crawford	31,932	Dec. 5	89	2057
Basket. Wire	H. Hofmann	30,979	June 13	87	1946
Bath ring. Shower	J. Kelly	30,185	Feb. 14	86	1158
Bath-seats. Supporting member for	O. Cabana, Jr	31,288	July 25	88	711
Bath-tub seat	W. Robertson	29,993	Jan. 10	86	337
Battery-plate	T. T. Lewis	30,909	May 30	87	1598
Battery-plate	H. C. Porter	31,366	Aug. 8	88	1147
Battery-plate	H. C. Porter	31,367	Aug. 8	88	1147
Battery-plate	H. C. Porter	31,368	Aug. 8	88	1147
Battery-plate separator	H. C. Porter	31,315	Aug. 1	88	939
Bearing	H. See	31,829	Nov. 14	89	1333
Bearing-plate. Vehicle	G. W. McConnell	30,629	Apr. 25	87	688
Beater or stirrer blade	P. J. Rock	30,015	Jan. 17	86	480
Bed-end frame	E. J. Knapp and A. C. Wilmot	31,651	Oct. 10	89	346
Bed-frame corner-bracket	J. H. Dyett	30,066	Jan. 24	86	626
Bed-pillars. Finial for	E. J. Knapp and A. C. Wilmot	31,559	Sept. 26	88	2405
Bed-post	J. H. Greene	30,376	Mar. 21	86	1976
Bed-slat support	W. Morrison and J. E. Neal	30,401	Mar. 28	86	2157
Bedstead	S. Newman	31,699	Oct. 17	89	514
Bedstead corner-bracket	M. L. Cross	30,189	Feb. 14	86	1159
Bedstead corner-post	S. J. Turner	30,343	Mar. 14	86	1798
Bedstead corner-post	S. J. Turner	30,344	Mar. 14	86	1798
Bedstead end piece	O. E. A. Wiessner	30,017	Jan. 17	86	481
Bedstead end piece	O. E. A. Wiessner	30,018	Jan. 17	86	481
Bedstead end piece	O. E. A. Wiessner	30,342	Mar. 14	86	1798
Bedstead-frame corner-bracket	W. S. Plummer	31,560	Sept. 26	88	2405
Bedstead head or foot	J. M. Adams	30,251	Feb. 21	86	1318
Bedstead headboard or footboard	J. D. Haggard and H. H. Marcusson	30,341	Mar. 14	86	1798
Bell	A. A. Bevin	31,584	Oct. 3	89	180
Bell-gong	R. W. E. Christesen	30,429	Mar. 28	86	2162
Bell-gong	R. W. E. Christesen	30,430	Mar. 28	86	2162
Bell-gong	E. D. Rockwell	30,990	June 13	87	1948
Bell-gong	E. D. Rockwell	31,360	Aug. 8	88	1146
Bell-gong	E. D. Rockwell	31,888	Nov. 28	89	1852
Belt	C. and E. J. Deitsch	30,921	May 30	87	1600
Belt	E. J. Deitsch	30,922	May 30	87	1600
Belt	E. J. Deitsch	30,923	May 30	87	1600
Belt-fastener plate	A. L. Eaton	30,518	Apr. 11	87	348
Belt-fastener plate	A. L. Eaton	30,519	Apr. 11	87	348
Belt-fastener plate	A. L. Eaton	30,520	Apr. 11	87	348
Belt. Shirt-waist	A. E. Dunbar	30,865	May 23	87	1390
Bench-bracket	T. Coyle	29,980	Jan. 10	86	335
Bicycle clutch member	J. C. Robbins	30,539	Apr. 11	87	351
Bicycle-cover	A. W. McGuire	30,732	May 9	87	1065
Bicycle crank-arm	H. D. Ogden	31,008	June 13	87	1951
Bicycle crank-hanger	F. P. Burnham and J. D. Alsup	31,098	June 27	87	2313
Bicycle fork-crown	N. Berglund	30,450	Mar. 28	86	2165
Bicycle fork-crown	W. F. Remppis	31,563	Sept. 26	88	2406
Bicycle-frame	H. H. Baker, Jr	30,970	June 6	87	1776
Bicycle-frame	M. E. Blood	31,051	June 20	87	2111
Bicycle-frame	H. Crowther and C. Timm	30,969	June 6	87	1776
Bicycle-frame	M. Fichtenberg	30,819	May 16	87	1227
Bicycle-frame	M. C. Johnson	31,319	Aug. 1	88	939
Bicycle-frame	M. C. Johnson	31,320	Aug. 1	88	939
Bicycle-frame	R. M. Keating	31,646	Oct. 10	89	345
Bicycle-frame	J. L. Knoll	29,944	Jan. 3	86	175
Bicycle-frame	J. L. Knoll	29,945	Jan. 3	86	175
Bicycle-frame	J. L. Knoll	31,448	Aug. 22	88	1520
Bicycle-frame	L. H. Manson	30,415	Mar. 28	86	2159
Bicycle-frame	J. C. Robbins	30,733	May 9	87	1065
Bicycle-frame	O. W. Schaum	30,820	May 16	87	1227
Bicycle-frame	L. T. Smith	30,070	Jan. 24	86	626
Bicycle-frame	E. C. Stearns	30,245	Feb. 21	86	1316
Bicycle-frame	G. L. Thompson	30,499	Apr. 4	87	172
Bicycle-frame	G. L. Thompson	30,500	Apr. 4	87	173
Bicycle frame-coupling	C. L. Travis	30,118	Jan. 31	86	792
Bicycle handle-bar	C. H. Metz	30,971	June 6	87	1776
Bicycle handle-bar	H. V. Scandrett	30,821	May 16	87	1227
Bicycle handle-bar	C. G. Whitaker	31,364	Aug. 8	88	1146
Bicycle handle-bar extension	C. H. Metz	31,007	June 13	87	1951
Bicycle handle-bar grip	E. D. Gardner	31,801	Nov. 7	89	1133
Bicycle handle-bar grip	E. D. Gardner	31,802	Nov. 7	89	1133
Bicycle handle-bar handle	R. H. Mather	31,257	July 18	88	538
Bicycle-hub	P. H. Barker	30,116	Jan. 31	86	792
Bicycle-pedal rubber member	I. M. Bartlett	30,915	May 30	87	1599
Bicycle-pump body	D. B. Smith	29,986	Jan. 10	86	336
Bicycle-pump nipple	E. F. Pickett	31,562	Sept. 26	88	2406
Bicycle rear bracket	W. Cairns	30,822	May 16	87	1227
Bicycle rear fork	F. P. Burnham	30,914	May 30	87	1599
Bicycle-saddle base	B. F. Wheeler	29,947	Jan. 3	86	175
Bicycle-saddle frame or base	H. M. Rosenblatt	31,598	Oct. 3	89	182
Bicycle-saddle spring	G. P. Holden	31,006	June 13	87	1951
Bicycle seat-post	G. G. Spencer	31,828	Nov. 14	89	1333
Bicycle sprocket-wheel	W. H. Fauber	31,194	July 11	88	377
Bicycle-stirrup upper	C. F. Whaley	30,667	May 2	87	878
Bicycle-support	W. H. Hart, Jr	30,815	May 16	87	1226
Bicycle-support	W. H. Hart, Jr	30,816	May 16	87	1227
Bicycle-support	W. H. Hart, Jr	30,817	May 16	87	1227

Alphabetical list of designs—Continued.

Design.	Name.	No.	Date.	Official Gazette. Vol.	Page.
Bicycle-support	W. H. Hart, Jr	30,818	May 16	87	1227
Bicycle-support	W. H. Hart, Jr	31,479	Aug. 29	88	1698
Bicycle-support	W. H. Hart, Jr	31,480	Aug. 29	88	1698
Bicycles. Chain and sprocket-wheel guard for	F. Douglas	31,866	Nov. 21	89	1660
Bicycles, &c. Fork-tube for	W. H. Fauber	30,243	Feb. 21	86	1316
Billiard-bridge	J. F. Evans	29,997	Jan. 10	86	338
Binding. Skirt-	C. F. Buschner	31,108	June 27	87	2315
Binding. Skirt-	C. F. Buschner	31,109	June 27	87	2315
Binding. Skirt-	H. Feder	30,041	Jan. 17	86	485
Binding. Skirt-	H. Feder	32,052	Dec. 26	89	2647
Binding. Skirt-	B. Lipper	31,729	Oct. 24	89	701
Binding. Skirt-	E. J. McCarty	31,024	June 13	87	1954
Binding. Skirt-	A. Platz, Jr	30,585	Apr. 18	87	507
Binding. Skirt-	H. A. Schaefer	31,963	Dec. 5	89	2063
Bobbin-holder and thread-catcher	R. C. Blakeslee	29,965	Jan. 10	86	333
Body loop-bolt	W. C. North	31,749	Oct. 31	89	909
Boiler casing. Steam-	J. E. Brown	31,328	Aug. 1	88	941
Boiler fire-box	J. Vanes	31,010	June 13	87	1951
Boiler or kettle	J. R. Davidson	31,820	Nov. 14	89	1332
Boiler-plate	E. P. Waggoner	30,246	Feb. 21	86	1317
Boiler-plate	E. P. Waggoner	30,247	Feb. 21	86	1317
Boiler-plate	E. P. Waggoner	30,248	Feb. 21	86	1317
Boiler-section	J. A. Rathbone	30,104	Jan. 31	86	790
Boiler side hanger. Steam-	R. Metcalf	31,868	Nov. 21	89	1661
Boiler-tube-cleaner cutter	W. D. Forsyth and E. T. Bell	31,370	Aug. 8	88	1148
Bolster	T. K. Stanley	31,652	Oct. 10	89	346
Bolt	E. C. Washburn	30,783	May 16	87	1221
Bolt. King-	M. L. Senderling	30,319	Mar. 7	86	1629
Bolt-operator and nail-set	C. O. Seavey	31,001	June 13	87	1950
Bolt. Stud-	J. G. Spear	31,685	Oct. 17	89	512
Book-back	C. W. Hufschmidt	31,674	Oct. 17	89	511
Book-cover	H. O. Cowdrick	30,006	Jan. 17	86	479
Book-cover blank	A. L. Rosenthal	31,380	Aug. 8	88	1149
Book cover. Memorandum-	P. Hufeland	30,873	May 30	87	1593
Book cover. Memorandum-	G. A. Kruttschnitt	30,602	Apr. 25	87	683
Book cover. Memorandum-	G. A. Kruttschnitt	31,075	June 27	87	2310
Booklet. Souvenir	P. Hake	30,132	Feb. 7	86	985
Book or album covers. Mounting for	W. H. Isbister	31,849	Nov. 21	89	1657
Boomerang	J. H. Berry	31,877	Nov. 21	89	1662
Boot or shoe tip	W. W. Phillips	29,950	Jan. 3	86	176
Boot or shoe upper	W. H. Winters	31,106	June 27	87	2314
Bootee	J. A. Manss	31,988	Dec. 12	89	2255
Boring-bar	C. Jackson	31,827	Nov. 14	89	1333
Bottle	A. P. Blyth	30,877	May 30	87	1594
Bottle	C. F. Francisco	30,264	Feb. 28	86	1487
Bottle	M. Henius	31,126	July 4	88	179
Bottle	R. G. Hopkins	30,173	Feb. 14	86	1156
Bottle	J. M. Knadler and W. B. Lucas	30,474	Apr. 4	87	168
Bottle	A. Kronkosky	32,027	Dec. 26	89	2642
Bottle	A. A. Low	31,179	July 11	88	374
Bottle	A. A. Low	31,180	July 11	88	374
Bottle	A. A. Low	31,235	July 18	88	534
Bottle	M. J. Olsen	30,134	Feb. 7	86	986
Bottle	J. Schies	31,706	Oct. 24	89	696
Bottle	F. Schilling	30,562	Apr. 18	87	503
Bottle	F. Schilling	30,664	May 2	87	878
Bottle	F. Schilling	31,462	Aug. 29	88	1695
Bottle	F. Schilling	31,500	Sept. 12	88	2059
Bottle	I. C. Souders	31,622	Oct. 10	89	341
Bottle	W. B. Swindell	31,518	Sept. 19	88	2233
Bottle	W. C. Taylor	31,127	July 4	88	179
Bottle	T. L. Valerius	30,533	Apr. 11	87	358
Bottle	H. J. D. Wipf	30,758	May 16	87	1217
Bottle	D. W. Zeber	30,759	May 16	87	1217
Bottle-cap fastener	C. K. Sherwood	30,403	Mar. 28	86	2158
Bottle-cap-reshaping die	W. A. Schaum	30,048	Jan. 24	86	623
Bottle. Glass	A. P. Babcock	31,780	Nov. 7	89	1130
Bottle. Glass	W. W. Lowrey	30,760	May 16	87	1217
Bottle. Hot-water	C. A. Tatum	30,475	Apr. 4	87	168
Bottle. Nursing-	G. H. Wright	30,007	Jan. 17	86	479
Bottle or jar top	J. D. Miller	30,434	Mar. 28	86	2163
Bottle-stopper extractor	G. Koch	31,398	Aug. 15	88	1324
Bottle-stopper. Glass	W. W. Lowrey	30,832	May 23	87	1386
Bottle-stopper. Glass	W. W. Lowrey	30,833	May 23	87	1386
Bottle-stopper plug	L. H. Broome	31,233	July 18	88	534
Bottle. Water-	C. A. Tatum	30,432	Mar. 28	86	2162
Bottle. Water-	C. A. Tatum	30,433	Mar. 28	86	2162
Bottles, &c. Nipple for nursing-	C. W. Meinecke	30,761	May 16	87	1218
Bowl	C. E. Bardwell	31,737	Oct. 31	89	907
Bowl for tea sets, &c	T. W. Foster	31,344	Aug. 8	88	1143
Bowl or vessel	B. Davies	31,738	Oct. 31	89	907
Box	L. Auerbach	31,585	Oct. 3	89	180
Box	G. W. Blair	30,563	Apr. 18	87	503
Box	R. N. Colgate	30,412	Mar. 28	86	2159
Box	A. Datz	31,236	July 18	88	534
Box	A. S. Marks	30,980	June 13	87	1946
Box	J. A. Moller, Jr	30,171	Feb. 14	86	1156
Box	W. B. Zuck	30,089	Jan. 31	86	787
Box-blank	W. T. Boyd	30,706	May 2	87	885
Box-blank	H. B. Smith	31,984	Dec. 12	89	2254
Box-blank	W. M. Wellman	30,160	Feb. 7	86	991
Box blank. Berry-	E. L. Walker	31,998	Dec. 19	89	2452
Box blank. Paper-	D. Heston	30,944	June 6	87	1772
Box blank. Paper-	D. Heston	30,945	June 6	87	1772
Box blank. Paper-	E. E. Pinkerton	31,214	July 11	88	381
Box-cover	C. M. Martin	30,476	Apr. 4	87	169

Alphabetical list of designs—Continued.

Design.	Name.	No.	Date.	Official Gazette. Vol.	Page.
Box for garters. Packing-	E. Gutmann	31,586	Oct. 3	89	180
Box-lid	R. M. Hollingshead	30,161	Feb. 7	86	991
Box-lid clasp	L. Diesterweg	30,947	June 6	87	1772
Box-lid holder	A. W. Grelle	31,999	Dec. 19	89	2452
Box. Match-	S. M. Rosin	31,851	Nov. 21	89	1658
Box or crate fastener	T. J. Watson	32,039	Dec. 26	89	2644
Box or like article. Ornamental powder-	B. G. Taite	30,226	Feb. 21	86	1314
Box. Paper	S. Hamburger	30,428	Mar. 28	86	2162
Box. Paper	R. L. Myers	30,871	May 30	87	1593
Box. Stationery-	G. B. Hurd	31,627	Oct. 10	89	342
Box. Turned wooden	W. C. Estes	31,997	Dec. 19	89	2452
Bracket. Wall-	W. Schwenk	31,042	June 20	87	2110
Braid	H. Bernstein	31,846	Nov. 14	89	1335
Braid	A. S. Waitzfelder	30,003	Jan. 10	86	339
Braid and ruffle	H. M. Lipper	30,042	Jan. 17	86	485
Brake dog. Foot-	E. B. Gray	30,269	Feb. 28	86	1488
Brake-head	W. D. Sargent	31,000	June 13	87	1950
Brake-shoe holder	J. N. Pringle	30,202	Feb. 14	86	1161
Brick	M. McNeill	31,329	Aug. 1	88	941
Brick	E. Paquette	30,707	May 2	87	885
Brick edges. Die for forming	R. H. Staley	30,571	Apr. 18	87	505
Brick. Fire-	H. S. Vrooman	30,288	Feb. 28	86	1491
Brick. Fire-	H. S. Vrooman	30,289	Feb. 28	86	1491
Bridle-bit	A. A. Callis	31,306	Aug. 1	88	937
Bridle-bit	C. D. Jackson	31,040	June 20	87	2110
Bridle-fastener blank	M. Wilson	30,097	Jan. 31	86	788
Broom and brush holder	W. T. Hamlin and C. Johann	31,123	July 4	88	178
Broom-cover	O. S. Kulman	31,530	Sept. 19	88	2235
Broom-holder	G. D. Fox	31,591	Oct. 3	89	181
Broom-rack	H. C. Bothwell	31,823	Nov. 14	89	1332
Brush	G. C. Bentzinger	30,616	Apr. 25	87	686
Brush	R. Lindsley	30,663	May 2	87	878
Brush and powder rack. Tooth	D. L. and C. Walmsley	31,028	June 20	87	2108
Brush-back or similar article	F. J. Diacont	31,705	Oct. 24	89	696
Brush-back or similar article	F. H. La Pierre	30,044	Jan. 24	86	623
Brush-back or similar article	H. A. Weihman	31,226	July 18	88	532
Brush body and handle	E. J. Kelly	31,122	July 4	88	178
Brush-bridle retainer	F. A. Stickney, Sr	30,727	May 9	87	1064
Brush. Fountain-	J. T. Snow	30,262	Feb. 28	86	1487
Brush-head	J. F. Hoke, Jr	30,092	Jan. 31	86	788
Brush-head	J. F. Hoke, Jr	30,728	May 9	87	1064
Brush-holder	J. A. Keane	32,012	Dec. 19	89	2454
Brushes, &c. Back for	T. W. Foster	31,121	July 4	88	178
Brushes, &c. Back for	F. H. La Pierre	31,735	Oct. 31	89	907
Brushes, &c. Back for	F. H. La Pierre	31,736	Oct. 31	89	907
Brushes, &c. Handle for tooth-	E. A. Hewitson	31,348	Aug. 8	88	1143
Brushes or similar articles. Back for	E. Crees and C. S. Court	31,273	July 25	88	708
Buckle	H. Hammer	31,748	Oct. 31	89	909
Buckle	C. E Smith	30,717	May 9	87	1063
Buckle-frame	W. Downing	31,676	Oct. 17	89	511
Buckle-plate	M. B. Hammond	31,504	Sept. 12	88	2060
Buckler. Belt-	J. Macphail	30,488	Apr. 4	87	170
Buffer	E. T. Burrowes	30,056	Jan. 24	86	624
Buffer-spring	Z. H. Tate	31,372	Aug. 8	88	1148
Building-block	H. B. Camp	30,550	Apr. 11	87	353
Building strut or column	W. J. Callaway	30,549	Apr. 11	87	353
Burners. Casing for air and oil supply for	H. M. Hamrick	30,028	Jan. 17	86	482
Bustle	M. E. Wetherell	31,054	June 20	87	2112
Butter mold or print	B. F. Otto	31,821	Nov. 14	89	1332
Button, &c	W. Baumgarten	31,061	June 27	87	2308
Button	H. T. Cook	30,713	May 9	87	1062
Button	G. C. Webb	31,619	Oct. 10	89	340
Buttonhole-opener and buttoner	R. Clarkson	31,433	Aug. 22	88	1518
Button-holder	A. Sametz	30,079	Jan. 31	86	785
Button-hooks, &c. Handle for	E. Crees and C. S. Court	30,933	June 6	87	1770
Button-hooks, &c. Handle for	F. J. Diacont	31,734	Oct. 31	89	906
Button-hooks, &c. Handle for	T. W. Foster	31,066	June 27	87	2308
Button-hooks, &c. Handle for	L. Fritzsche	29,959	Jan. 10	86	332
Button-hooks, &c. Handle for	S. A. Keller	31,546	Sept. 26	88	2402
Button-hooks, &c. Handle for	S. A. Keller	31,547	Sept. 26	88	2403
Button-hooks, &c. Handle for	W. H. Saart	31,067	June 27	87	2308
Button-hooks, &c. Handle for	W. H. Saart	31,225	July 18	88	532
Button-hooks or similar articles. Handle for	E. Crees and C. S. Court	31,274	July 25	88	708
Button. Link cuff	J. E. Hills	31,731	Oct. 31	89	906
Button necktie-fasteners. Member for collar-	F. C. Leach	31,304	Aug. 1	88	937
Button-shield plate	R. F. Bradbury	30,364	Mar. 21	86	1374
Buttoner and nail-cutter. Collar-	F. Lewald	31,349	Aug. 8	88	1143
Cabinet	G. W. Thompson	31,695	Oct. 17	89	513
Cabinet. Cracker-	A. W. Meyer	30,426	Mar. 28	86	2161
Cabinet frame. Pastry-	G. Kopp	30,798	May 16	87	1223
Cabinet. Garter-	E. Pickhardt	31,726	Oct. 24	89	701
Cabinet. Kitchen-	A. B. Johnson	30,398	Mar. 28	86	2157
Cabinet. Kitchen-	J. E. Tate	31,983	Dec. 12	89	2254
Cabinet. Kitchen-	W. H. Teachout	31,650	Oct. 10	89	346
Cabinet. Kitchen-	B. F. Willard and S. R. Crowner	30,504	Apr. 4	87	173
Cabinet. Kitchen-	W. S. Wright	29,943	Jan. 3	86	174
Cabinets. Dispensing-front for grocers'	F. F. Jaques	30,325	Mar. 7	86	1630
Cable-support	J. Heywood	31,552	Sept. 26	88	2403
Calendar-base	W. Mosby	31,813	Nov. 7	89	1136
Calender-block stand	C. H. Coles	31,853	Nov. 21	89	1658
Calk	H. Freistroffer	30,483	Apr. 4	87	170
Call-box and base	H. L. Haupt	30,053	Jan. 24	86	624
Cam	N. Shaw	30,101	Jan. 31	86	789
Can	A. P. Claude	31,079	June 27	87	2310
Can-bottom	H. M. Case	31,399	Aug. 15	88	1324
Can-cap	T. H. Ross	30,764	May 16	87	1218

Alphabetical list of designs—Continued.

Design.	Name.	No.	Date.	Official Gazette. Vol.	Page.
Can-cover	A. E. Dulmage	30,672	May 2	87	879
Can. Dairy milk-	E. Mathews	31,933	Dec. 5	89	2057
Can. Metal	H. A. Wilhelm	31,742	Oct. 31	89	908
Can. Oil-	S. Davis	30,879	May 30	87	1594
Can-opener	M. O. Finkbeiner	30,615	Apr. 25	87	686
Can-opener	J. A. Plint	31,859	Nov. 21	89	1659
Can-opener	W. H. Randle and B. D. Phillips	30,502	Apr. 4	87	173
Can or bin. Coffee	G. M. Gordon	31,134	July 4	88	180
Can pocket. Grease-	A. Crocheron	30,110	Jan. 31	86	791
Can. Tea or coffee	T. F. McCormick	30,878	May 30	87	1594
Candlestick. Miner's	W. H. Pleasants	30,406	Mar. 28	86	2158
Candlestick. Miner's	W. H. Pleasants	30,991	June 13	87	1948
Canopy-frame	H. G. Wittbold	30,268	Feb. 28	86	1488
Cap	M. Davis	31,107	June 27	87	2314
Car-body bolster	E. F. Goltra	29,935	Jan. 3	86	173
Car-body bolster	E. F. Goltra	29,936	Jan. 3	86	173
Car-body bolster	E. F. Goltra	29,937	Jan. 3	86	173
Car-ceiling	J. H. Horne	32,033	Dec. 26	89	2643
Car center sill	W. P. Bettendorf	30,635	Apr. 25	87	688
Car cushion or guard. Street-	A. C. Woodworth	30,201	Feb. 14	86	1161
Car-door hanger	G. S. Marshall	31,327	Aug. 1	88	940
Car-fender	C. A. Hatch	30,582	Apr. 18	87	507
Car-platform	F. H. Harris	31,374	Aug. 8	88	1148
Car-seat hand-rail	P. M. Kling	31,314	Aug. 1	88	939
Car-seat stand	A. M. Kittredge	30,957	June 6	87	1774
Car signs. Hood-reflector for street-	T. Millen	30,058	Jan. 24	86	624
Cars, &c. Protective foot-plate for	J. J. Gorman	30,270	Feb. 28	86	1488
Card-case	G. A. Kruttschnitt	30,603	Apr. 25	87	683
Card-flat end clip	C. Mills and R. W. Hunton	30,885	May 30	87	1595
Card-mount	J. P. Odgers	31,953	Dec. 5	89	2061
Card-mount	J. P. Odgers	31,954	Dec. 5	89	2062
Card-mount	J. P. Odgers	31,955	Dec. 5	89	2062
Carpet	E. A. Crowe	30,511	Apr. 4	87	174
Carpet	J. Spring	30,642	Apr. 25	87	690
Carpet-border	W. A. Elliot	31,776	Oct. 31	89	914
Carpet-border	J. Spring	30,257	Feb. 21	86	1318
Carpet button. Stair-	D. Walker	31,785	Nov. 7	89	1131
Carpet-cleaner cylinder	L. C. Hayes	30,617	Apr. 25	87	686
Carpet fastener. Stair-	D. Walker	30,723	May 9	87	1063
Carpet for railway-car seats	A. K. May	31,880	Nov. 21	89	1662
Carpet for trolley-car seats	A. K. May	31,879	Nov. 21	89	1662
Carpet-stretcher	J. W. Orton	31,037	June 20	87	2109
Carpet-stretcher	G. A. Righter	30,481	Apr. 4	87	169
Carpeting	M. M. Cox	31,170	July 4	88	186
Carpeting	M. M. Cox	31,171	July 4	88	187
Carpeting	M. M. Cox	31,172	July 4	88	187
Carpeting	A. G. Greig	30,451	Mar. 28	86	2165
Carpeting	A. G. Greig	30,452	Mar. 28	86	2166
Carpeting	A. E. Held	31,333	Aug. 1	88	941
Carpeting	W. C. Magee	31,166	July 4	88	186
Carpeting	W. C. Magee	31,334	Aug. 1	88	942
Carpeting	A. M. Rose	30,453	Mar. 28	86	2166
Carpeting	J. Spring	30,356	Mar. 14	86	1801
Carpeting	N. S. Stewart	30,827	May 16	87	1228
Carpeting	N. S. Stewart	31,167	July 4	88	186
Carpeting	N. S. Stewart	31,168	July 4	88	186
Carpeting	N. S. Stewart	31,169	July 4	88	186
Carpeting	N. S. Stewart	31,335	Aug. 1	88	942
Carpeting	N. S. Stewart	31,336	Aug. 1	88	942
Carpeting	N. S. Stewart	31,337	Aug. 1	88	942
Carpeting	N. S. Stewart	31,338	Aug. 1	88	942
Carpeting	N. S. Stewart	31,339	Aug. 1	88	942
Carpeting	N. S. Stewart	31,340	Aug. 1	88	942
Carpeting	N. S. Stewart	31,341	Aug. 1	88	942
Carriage. Baby-	F. Hall	30,190	Feb. 14	86	1159
Carriage foot-rest. Child's-	I. N. Dann	30,191	Feb. 14	86	1159
Cartridge-clip receiver	E. G. Parkhurst	30,586	Apr. 18	87	507
Cartridge-clip. Temporary	E. G. Parkhurst	30,587	Apr. 18	87	507
Casket-cover	C. M. Drennan	30,965	June 6	87	1775
Casket-grip	E. R. Sargent	30,535	Apr. 11	87	350
Caster frame. Ball-	J. Loos	31,597	Oct. 3	89	182
Caster-pintle	B. P. Kenyon	31,793	Nov. 7	89	1132
Chafing-dish	J. P. Steppe	32,026	Dec. 26	89	2642
Chafing-dish stand	J. P. Steppe	31,666	Oct. 17	89	509
Chafing-dish stand	J. P. Steppe	31,783	Nov. 7	89	1131
Chafing-dish water-pan	J. P. Steppe	31,667	Oct. 17	89	509
Chain	W. C. Edge	31,221	July 18	88	532
Chain	G. H. French	31,545	Sept. 26	88	2402
Chain and necklace. Watch-	M. M. Mirabeau	31,064	June 27	87	2308
Chain-link	S. D. Locke	30,362	Mar. 21	86	1974
Chain-link	S. D. Locke	30,363	Mar. 21	86	1974
Chain-link	J. Smith	30,242	Feb. 21	86	1316
Chain. Membership-	F. A. Boysen	31,063	June 27	87	2308
Chair	P. T. Graves	31,049	June 20	87	2111
Chair	A. Kirkpatrick	31,513	Sept. 12	88	2062
Chair	G. Loring	31,875	Nov. 21	89	1662
Chair-back	L. Gohlke and R. W. Irwin	30,138	Feb. 7	86	986
Chair. Folding	T. Adams	31,698	Oct. 17	89	514
Chair-leg tip	F. Watt	30,425	Mar. 28	86	2161
Chair. Ratan or wicker	H. M. Kinports	29,995	Jan. 10	86	337
Chair seat and back	C. R. Kaiser	31,313	Aug. 1	88	938
Chair-seat. Bent-wood	J. H. Coffman	31,951	Dec. 5	89	2061
Chair-seat. Bent-wood	F. A. Dennett	29,994	Jan. 10	86	337
Chair-seat. Bent-wood	H. Koehn	30,400	Mar. 28	86	2157
Chair-spindle	J. Gilson	31,416	Aug. 15	88	1327
Chair. Window-	F. T. Dickson	32,011	Dec. 19	89	2454

Alphabetical list of designs—Continued.

Design.	Name.	No.	Date.	Official Gazette. Vol.	Page.
Chairs or cradles. Rocker-cushion for rocking-	J. M. Martin	31,493	Sept. 5	88	1892
Channel-bar support	J. Heywood	31,551	Sept. 26	88	2403
Charm	S. Benensohn	31,427	Aug. 22	88	1517
Charm	J. Forsheim	31,062	June 27	87	2308
Charm or similar article	A. M. Field	30,004	Jan. 17	86	478
Chart. Dressmaker's pattern-	J. A. Wright	30,553	Apr. 11	87	353
Check	G. J. Bremer	30,872	May 30	87	1593
Checker-board	F. S. Liggett and G. J. E. Mayer	30,869	May 23	87	1391
Checkrein-holder	A. H. Huggins	30,536	Apr. 11	87	351
Checkrein-hook	E. A. Soult	31,440	Aug. 22	88	1519
Chest	J. H. Thompson	30,477	Apr. 4	87	169
Chimney	A. Howard	32,029	Dec. 26	89	2642
Chimney cowl or cap	J. A. Holmberg and F. H. Duncan	30,284	Feb. 28	86	1491
Chimney-hole cap	H. H. Ladd	30,905	May 30	87	1598
Chopper case. Food-	L. T. Snow	30,580	Apr. 18	87	506
Churn	R. C. Spratling	31,822	Nov. 14	89	1332
Churn-dasher	P. Gormley	30,068	Jan. 24	86	626
Churn-frame	M. O'Marrow	30,797	May 16	87	1223
Cigar	N. Du Brul	31,917	Dec. 5	89	2054
Cigar	S. K. Snavely	31,847	Nov. 14	89	1336
Cigar and ash holder	G. F. Prendergast	30,605	Apr. 25	87	684
Cigar-counter utensil	W. E. Parsons, Jr	29,971	Jan. 10	86	334
Cigarette	N. Du Brul	31,916	Dec. 5	89	2054
Clamp-band	T. W. G. Cook	31,895	Nov. 28	89	1853
Clamp-body	E. D. Abbott	29,974	Jan. 10	86	335
Clamp member	H. Crigler	31,082	June 27	87	2311
Clamp member	F. Radford and E. C. Boyer	29,920	Jan. 3	86	170
Clamp member	F. Radford and E. C. Boyer	29,921	Jan. 3	86	170
Clasp	J. H. McPhail	30,177	Feb. 14	86	1157
Clasp-body	H. Knepper	31,939	Dec. 5	89	2058
Clasp member	C. L. Lewis and C. E. Mixer	30,948	June 6	87	1772
Clasp member	C. L. Lewis and C. E. Mixer	30,949	June 6	87	1772
Cleaver. Butcher's	J. McKinzie	31,534	Sept. 19	88	2236
Clip	A. C. Nygaard	30,278	Feb. 28	86	1490
Clip. Paper-	G. P. Farmer	30,946	June 6	87	1772
Clock-back	N. L. Whedon	29,970	Jan. 10	86	334
Clock-case	G. P. Bedford	30,772	May 16	87	1219
Clock-case	E. Hardy	31,227	July 18	88	533
Clock-case	E. Hardy	31,228	July 18	88	533
Clock-case	E. Hardy	31,229	July 18	88	533
Clock-case	E. M. Jennings and C. F. Mosman	30,984	June 13	87	1947
Clock-case	E. M. Jennings and C. F. Mosman	30,985	June 13	87	1948
Clock-case	C. F. Mosman	30,983	June 13	87	1947
Clock-dial	M. M. Gillam	30,937	June 6	87	1770
Clock-face	S. P. Thrasher	30,829	May 23	87	1386
Clock-frame	C. F. Chouffet and E. J. Isley	31,920	Dec. 5	89	2055
Clock-frame	E. Hardy	30,577	Apr. 18	87	506
Clock-frame	F. Stewart	30,606	Apr. 25	87	684
Clock-frame	F. Stewart	30,607	Apr. 25	87	684
Clock-frame	F. Stewart	30,608	Apr. 25	87	684
Clock or watch dial	J. L. Clarke	31,501	Sept. 12	88	2060
Clothes-fork	J. A. Olson	30,796	May 16	87	1223
Clothes-line-clamp frame	J. M. Stewart	31,186	July 11	88	376
Clothes-line holder	J. C. Sheeran	31,185	July 11	88	376
Clothes-line-holder frame	T. Lemaire	31,792	Nov. 7	89	1132
Clothes-line link	J. F. Irvine	31,747	Oct. 31	89	909
Clothes-line post	G. W. and J. C. Sanborn	29,940	Jan. 3	86	174
Clothes-line props. Body member for	M. M. Lightfoot	30,137	Feb. 7	86	986
Clothes-line trolley	T. Rubino	31,554	Sept. 26	88	2404
Clothes-pin	G. M. Hatfield	31,184	July 11	88	376
Clothes-pin	L. E. Karnes	31,290	July 25	88	711
Clothes-pin	E. O. Lunt	30,186	Feb. 14	86	1158
Clothes-pin	G. H. Waters	31,438	Aug. 22	88	1518
Clothes-rack frame	F. Hiemenz	30,120	Jan. 31	86	792
Clothes-rack head	W. Erskine	31,937	Dec. 5	89	2058
Clothes-tongs member	A. Reeves and A. W. Johnson	30,479	Apr. 4	87	169
Clothes-spring	J. N. Carter	31,972	Dec. 12	89	2252
Clothes-washer	C. Blake	30,575	Apr. 18	87	506
Clutch member	F. J. Seng	31,083	June 27	87	2311
Clutch member	F. J. Seng	31,190	July 11	88	376
Clutch member	A. F. Sternberg	31,897	Nov. 28	89	1853
Coach-pad	J. W. Harmon	30,273	Feb. 28	86	1489
Cock body. Double bath-	A. S. Hills	31,599	Oct. 3	89	182
Coffee-pot	W. N. Head	30,614	Apr. 25	87	685
Coffin handle-plate	H. T. Coons	30,361	Mar. 21	86	1974
Collar and cuff smoother	H. Grenon	31,755	Oct. 31	89	910
Color-exhibiting card	J. E. Patton, Jr	31,910	Nov. 28	89	1855
Column-shaft	A. F. Schwerd and A. W. Emrick	31,158	July 4	88	184
Column-shaft	A. F. Schwerd and A. W. Emrick	31,159	July 4	88	184
Column-shaft	A. F. Schwerd and A. W. Emrick	31,160	July 4	88	185
Comb	F. W. Grell	30,261	Feb. 28	86	1487
Comb for personal wear.	J. Eschwege	31,521	Sept. 19	88	2233
Comb-teeth-containing sheath	L. Schneider	31,297	Aug. 1	88	936
Commode-chair	C. W. Russell	29,992	Jan. 10	86	337
Communion-cup filler	E. W. Ryan	30,935	June 6	87	1770
Conductor-fastener	W. Heib	31,836	Nov. 14	89	1334
Confectionery-holder	F. H. Roberts	30,012	Jan. 17	86	480
Confectionery piece	T. P. Drown	31,016	June 13	87	1952
Converter-box	F. Schwedtmann	30,688	May 2	87	882
Converter-box	F. Schwedtmann	30,689	May 2	87	883
Converter-box	F. Schwedtmann	30,690	May 2	87	883
Cooker. Feed-	H. J. Grimm	31,135	July 4	88	180
Cooking utensil	J. H. Smith	31,043	June 20	87	2110
Cop-tube	W. H. Baker and F. E. Kip	31,636	Oct. 10	89	344
Copy-holder standard	L. Hudgin	31,854	Nov. 21	89	1658
Cord-cutter. Artificial-thumb-nail	L. M. Rhoades	31,130	July 4	88	180

Alphabetical list of designs—Continued.

Design.	Name.	No.	Date.	Official Gazette. Vol.	Page.
Cord-tip coupling. Flexible-	J. B. Hardy	30,255	Feb. 21	86	1318
Cork-retaining device	C. Schroeder	31,311	Aug. 1	88	938
Corkscrew-handle	W. R. Clough	30,234	Feb. 21	86	1315
Corkscrew-head	E. Walker	31,505	Sept. 12	88	2060
Corn-holder	E. A. Straub	31,966	Dec. 12	89	2251
Corn-husker pad	J. G. Kees	30,337	Mar. 14	86	1797
Corner-bead	J. H. McCracken	30,302	Feb. 28	86	1493
Corner dust-guard	C. W. Withington	30,684	May 2	87	881
Corner dust-guard	C. W. Withington	30,685	May 2	87	882
Corner strip or plate	W. F. Parker	30,775	May 16	87	1220
Corset	M. M. Mills	31,292	July 25	88	711
Corset	F. Rockett	32,050	Dec. 26	89	2646
Corset	L. G. Walker	30,381	Mar. 21	86	1977
Corset-hook eye	W. P. Allen	31,176	July 11	88	374
Cotton-picker	R. F. Richards	31,151	July 4	88	183
Counterbalance-spring casing	J. M. Gagan	30,238	Feb. 21	86	1315
Counter-mat	F. Wagner	30,175	Feb. 14	86	1156
Counter wall-fixture	W. C. Huss	30,960	June 6	87	1774
Cover. Vessel-	J. H. Brown	30,762	May 16	87	1218
Cracker or biscuit	L. Fox	31,777	Oct. 31	89	914
Crank-shaft member	C. H. Metz	30,537	Apr. 11	87	351
Crank-shaft sleeve	L. P. Halladay	31,492	Sept. 5	88	1892
Crate	W. Goldie	31,253	July 18	88	537
Cream-separator	D. C. Camp	31,254	July 18	88	538
Cream-separator	C. S. Hanna	31,255	July 18	88	538
Cream-separator	H. S. Hunt	29,941	Jan. 3	86	174
Cream-separator	J. E. Phillips	30,244	Feb. 21	86	1316
Cream-separator	S. Reinsberg	30,741	May 9	87	1067
Cream-separator bottom	C. F. Hawkins	30,962	June 6	87	1775
Cream-separator column	H. N. Gagel	30,673	May 2	87	879
Cream-separators. Water-mixing stand for	H. E. Barney	31,640	Oct. 10	89	344
Creamery-cans. Water-spraying stand for	A. E. Dulmage	30,574	Apr. 18	87	505
Crown-piece attachment	C. Rozell	30,035	Jan. 17	86	484
Cuff-holder	W. K. Herrington	31,548	Sept. 26	88	2403
Cuff-holder	E. M. La Veine	30,389	Mar. 28	86	2155
Cultivating-scraper	A. E. Thompson	30,422	Mar. 28	86	2161
Cultivator-frame	S. L. Allen	30,069	Jan. 24	86	626
Cultivator-frame	W. L. Beall	30,680	May 2	87	881
Cultivator supporting-bracket	C. H. Nichols	31,716	Oct. 24	89	699
Cultivator thinning and weeding shoe	F. M. Oeder and J. E. Wright	31,251	July 18	88	537
Cultivators. Sugar-beet-thinning shoe for	F. M. Oeder and J. E. Wright	30,849	May 23	87	1388
Cup	C. J. Ahrenfeldt	30,521	Apr. 11	87	348
Cup	C. W. Meinecke	31,178	July 11	88	374
Cup	H. M. Williams	30,308	Mar. 7	86	1627
Cup. Drinking-	J. Albachary	30,008	Jan. 17	86	479
Cup. Feeding or invalid	D. Hogan	31,230	July 18	88	533
Curling-iron heater	W. R. Mowery	31,124	July 4	88	179
Curling-iron member	S. M. Levy	31,971	Dec. 12	89	2252
Curling irons. Member for hair-	G. Havell	30,093	Jan. 31	86	788
Current-regulator case	M. E. Fuld	29,977	Jan. 10	86	335
Currycomb	T. S. Evans	30,365	Mar. 21	86	1975
Curtain	E. T. Burrowes	29,953	Jan. 3	86	176
Curtain	E. T. Burrowes	29,954	Jan. 3	86	177
Curtain and shade bracket	S. G. Wilkerson	31,791	Nov. 7	89	1132
Cuspidor. Fountain-	H. E. Weber	32,005	Dec. 19	89	2453
Cuspidor. Pocket-	P. D. Pollard	31,397	Aug. 15	88	1323
Cut-off. Rain-water	L. Kuehn	31,835	Nov. 14	89	1334
Cutter-frame	S. K. White	31,751	Oct. 31	89	909
Cutting and adjusting tool member	C. G. Anderson	31,788	Nov. 7	89	1131
Cutting tool. Circular-	C. Jackson	31,753	Oct. 31	89	910
Cycle seat-post	W. Pearl	31,680	Oct. 17	89	513
Dauber	H. L. Miller	31,973	Dec. 12	89	2252
Dental cabinet	W. G. Hullhorst	29,996	Jan. 10	86	338
Dental-chair supporting-piece or plunger	E. M. Fredericks	30,693	May 2	87	883
Dental elevator	X. Dodel	31,494	Sept. 5	88	1892
Desk standard. School-	H. L. Hall	31,287	July 25	88	710
Dial	W. Northorpe	31,502	Sept. 12	88	2060
Dial-face	C. W. Pank	31,673	Oct. 17	89	510
Diaper	W. M. Stinson	31,570	Sept. 26	88	2407
Dictionary-holders. Standard for	L. W. Noyes	30,311	Mar. 7	86	1627
Die for forging bodies of rotary trimmer-cutters	E. Childs	30,677	May 2	87	880
Die-plate	J. Marsden	30,988	June 13	87	1948
Die-plate	J. Marsden	30,989	June 13	87	1948
Die-plate	R. A. Stewart	30,049	Jan. 24	86	623
Dipper	S. A. Bunting	31,463	Aug. 29	88	1695
Directory-frame	L. L. Sample	31,076	June 27	87	2310
Directory-stand or similar article	F. S. Frost and R. B. Dutch	31,524	Sept. 19	88	2234
Dish	W. H. Grindley	31,740	Oct. 31	89	908
Dish	G. Otto	30,174	Feb. 14	86	1156
Dish. Cover-	R. L. Johnson	31,782	Nov. 7	89	1131
Dish. Covered	C. J. Ahrenfeldt	30,524	Apr. 11	87	349
Dish. Covered	C. J. Ahrenfeldt	30,525	Apr. 11	87	349
Dish. Covered	W. H. Grindley	31,710	Oct. 24	89	697
Dish. Covered	A. Paroutaud	29,967	Jan. 10	86	333
Disinfecting-fluid tank	E. Taussig	30,745	May 9	87	1068
Display-box	M. W. Becton	30,427	Mar. 28	86	2161
Display-box	F. H. Roberts	30,010	Jan. 17	86	479
Display-box	F. H. Roberts	30,011	Jan. 17	86	480
Display-box	J. F. Simons	30,859	May 23	87	1390
Display-card	H. S. Moore	31,212	July 11	88	380
Display-card for shirts	E. K. Betts	30,513	Apr. 4	87	175
Display-casing	A. A. Pearson	31,211	July 11	88	380
Display-fixture. Store	H. G. Roth	31,525	Sept. 19	88	2234
Display-fixture. Store	H. G. Roth	31,526	Sept. 19	88	2234
Display-fixture. Store	H. G. Roth	31,527	Sept. 19	88	2234
Display-fixture. Store	H. G. Roth	31,528	Sept. 19	88	2235

Alphabetical list of designs—Continued.

Design.	Name.	No.	Date.	Official Gazette. Vol.	Page.
Display-frame	L. S. Crandall	30,860	May 23	87	1390
Display-rack or similar article	T. M. Hartman	32,042	Dec. 26	89	2645
Display-rack. Pedestal	C. B. Morrow	30,771	May 16	87	1219
Display-ring	C. B. Morrow	31,156	July 4	88	184
Display-stand	G. W. McNaught	30,542	Apr. 11	87	351
Display stand. Bottle-	J. Q. A. Walker	30,331	Mar. 14	86	1796
Doll	D. C. Bouton	31,663	Oct. 17	89	509
Door-check frame	C. M. Burgess	30,691	May 2	87	883
Door-check frame	C. M. Burgess	30,692	May 2	87	883
Door frame. Screen-	W. B. Phillips	30,544	Apr. 11	87	352
Door-hanger	D. F. Corkery	30,594	Apr. 18	87	508
Door or window securer	G. E. Johnson	31,529	Sept. 19	88	2235
Door-plate for door-hangers	W. J. Lane	31,930	Dec. 5	89	2057
Door-securer	W. H. Phillips	32,030	Dec. 26	89	2642
Door-securer member	J. A. O'Dell	31,143	July 4	88	182
Door supports. Casing member for sliding-	G. C. Gardner	31,088	June 27	87	2312
Dough-board	E. Sargent, Jr	30,397	Mar. 28	86	2157
Drainer	C. Haynes	31,491	Sept. 5	88	1892
Dress-edging	A. Vogt	30,165	Feb. 7	86	991
Dresser and commode. Combined	D. Hartley	30,394	Mar. 28	86	2156
Drinking-glass	A. F. Meder	31,499	Sept. 12	88	2059
Drip-pan	J. Mugford	31,556	Sept. 26	88	2404
Drop-bar	J. Coldwell and C. G. Gildard	29,979	Jan. 10	86	335
Drop-bar	J. Coldwell and C. G. Gildard	31,002	June 13	87	1950
Drum. Heating-	O. E. Wait	31,609	Oct. 3	89	184
Drum. Heating-	F. S. Weller	31,691	Oct. 17	89	513
Dust and cinder guard	J. H. Reynolds	30,850	May 23	87	1388
Dust-pan	H. Gerwig	31,183	July 11	88	375
Easel	S. J. Sharp	31,452	Aug. 22	88	1521
Easel. Picture-holding	W. G. Harper and W. H. Fromhart	30,541	Apr. 11	87	351
Eaves-trough hanger	W. Heib	30,108	Jan. 31	86	790
Eaves-trough screen	T. C. Keller	30,107	Jan. 31	86	790
Egg-beater frame	S. R. Munson	32,028	Dec. 26	89	2642
Egg-carton filler	R. J. Barkley	30,088	Jan. 31	86	787
Egg-holder	W. P. Murphy	30,526	Apr. 11	87	349
Egg-tester	D. M. Haight	29,942	Jan. 3	86	174
Elbow-coupling	J. H. Glauber	31,553	Sept. 26	88	2404
Electric-circuit terminal	W. H. Baker and F. E. Kip	30,207	Feb. 14	86	1162
Electric contact-button	W. C. Bryant	31,147	July 4	88	182
Electric cut-out base	J. Sachs	31,045	June 20	87	2110
Electrical cut-out cover	C. G. Perkins	31,044	June 20	87	2110
Electric-heater casing	E. E. Gold	29,976	Jan. 10	86	335
Electric-machine case. Coin-controlled	W. C. Backof	31,839	Nov. 14	89	1335
Electric machines. Core-plate for dynamo-	E. D. Priest	30,102	Jan. 31	86	789
Electric-meter dial	H. P. Maxim	31,919	Dec. 5	89	2055
Electrical-conductor molding	H. Krantz	31,193	July 11	88	377
Electrical terminal	W. B. Bragdon	31,316	Aug. 1	88	989
Electrode	A. D. Scott	31,495	Sept. 5	88	1892
Electrode. Storage-battery	T. A. Willard	30,687	May 2	87	882
Electromotor-casing	J. Post	31,898	Nov. 28	89	1853
Emery-grinder frame	D. B. Hyde	30,495	Apr. 4	87	172
Engine casing. Gas-	C. C. Riotte	30,279	Feb. 28	86	1490
Engine-frame	C. C. Riotte	31,805	Nov. 7	89	1134
Engine-frame	C. C. Riotte	31,806	Nov. 7	89	1134
Engine frame. Gas-	H. H. Hennegin	31,807	Nov. 7	89	1134
Engine frame. Gas-	L. H. Nash	30,030	Jan. 17	86	483
Engines. Cylinder-head for triple-cylinder	C. L. Mayhew	31,412	Aug. 15	88	1326
Engines. Cylinder-piece for triple-cylinder	C. L. Mayhew	31,411	Aug. 15	88	1326
Entry-sheets. Skeleton frame for	H. Swalley	31,392	Aug. 15	88	1323
Envelop	W. O. Abbott	31,725	Oct. 24	89	700
Envelop-blank	J. H. Bradley	31,391	Aug. 15	88	1322
Envelop-blank	R. A. Byrne	30,943	June 6	87	1771
Eraser-holder	L. W. Faber	30,655	May 2	87	877
Escutcheon	A. L. Reed	31,911	Nov. 28	89	1855
Escutcheon-plate	B. Phelps	30,113	Jan. 31	86	791
Ewer	W. H. Grindley	31,739	Oct. 31	89	908
Exercising-machine terminal member	E. R. Goodridge	30,972	June 6	87	1776
Eye	I. P. Doolittle	30,590	Apr. 18	87	508
Eye	W. G. Templeton	31,132	July 4	88	180
Eye-cup	B. F. Stephens	30,756	May 16	87	1217
Eyeglass-case	H. E. Guyer	30,045	Jan. 24	86	623
Eyeglass-case	H. E. Guyer	30,934	June 6	87	1770
Eyeglass-case	H. E. Guyer	31,351	Aug. 8	88	1144
Eyeglass-case	W. Zoerb	30,307	Mar. 7	86	1627
Eyeglass-case	W. Zoerb	31,070	June 27	87	2309
Eyeglass-frame	J. Casey and M. S. Chism	30,456	Apr. 4	87	165
Eyeglass-guard	M. W. Kaufmann	31,883	Nov. 28	89	1851
Eyeglass-holder	I. Phelps	31,352	Aug. 8	88	1144
Eyeglass lens-mounting	R. M. Mertz	31,131	July 4	88	180
Eyeglass-mounting	G. A. Squier	30,604	Apr. 25	87	684
Eyelet	D. C. See	30,465	Apr. 4	87	167
Fabric	H. L. Andrews	30,166	Feb. 7	86	991
Fabric	A. Bierman	30,258	Feb. 21	86	1319
Fabric	I. Fisher	31,056	June 20	87	2112
Fabric	I. E. Palmer	31,110	June 27	87	2315
Fabric	I. E. Palmer	31,111	June 27	87	2315
Fabric	I. E. Palmer	31,112	June 27	87	2315
Fabric	I. E. Palmer	31,572	Sept. 26	88	2407
Fabric. Hemmed	L. F. Boomer	30,126	Jan. 31	86	793
Fabric. Pile	S. Blumenthal	30,749	May 9	87	1068
Fabric. Pile	S. Blumenthal	30,750	May 9	87	1068
Fabric. Plaited	G H. Taylor	30,974	June 6	87	1776
Fabric. Textile	D. Howarth	30,927	May 30	87	1601
Fabric. Textile	D. Howarth	30,928	May 30	87	1601
Fabric. Textile	D. Howarth	30,929	May 30	87	1601
Fabric. Textile	H. P. Johnstone	31,457	Aug. 22	88	1522

Alphabetical list of designs—Continued.

Design.	Name.	No.	Date.	Official Gazette. Vol.	Page.
Fabric. Textile	R. and L. Krause	30,554	Apr. 11	87	353
Fabric. Textile	H. S. Lawson	31,962	Dec. 5	89	2063
Fabric. Warp-net	F. O. Haubner	30,709	May 2	8.	886
Fabric. Woven	A. L. Bernheimer	31,662	Oct. 10	89	348
Fabric. Woven	W. T. Smith	32,053	Dec. 26	89	2647
Fan	D. A. Minard	30,924	May 30	87	1600
Fan	D. A. Minard	31,022	June 13	87	1953
Fan for sewing-machines	A. Weinraub	31,405	Aug. 15	88	1325
Fan motors. Frame for electric-	R. Lundell	31,369	Aug. 8	88	1147
Fans. Air-deflector for electric	E. W. Brown	31,899	Nov. 28	89	1853
Fans Air-deflector for electric	E. W. Brown	31,900	Nov. 28	89	1853
Fare-register dial	A. E. Nielsen	30,077	Jan. 31	86	785
Fastener socket member	W. S. Richardson	30,315	Mar. 7	86	1628
Fasteners. Socket member for detachable	M. D. Shipman	31,350	Aug. 8	88	1143
Faucet	I. N. Glauber	31,363	Aug. 8	88	1146
Faucet-body	I. Levy	30,893	May 30	87	1596
Faucet-body	I. Levy	31,467	Aug. 29	88	1696
Faucet body. Filtering-	S. H. Jones	31,824	Nov. 14	89	1332
Fence	J. H. Srofe	31,602	Oct. 3	89	183
Fence-panel	G. D. Sheer	30,372	Mar. 21	86	1976
Fence-post	J. H. Boddie	30,913	May 30	87	1599
Fence-post	J. W. Brooks	30,959	June 6	87	1774
Fence-post	R. M. Handly	31,091	June 27	87	2312
Fence-post	S. K. Kraver	30,795	May 16	87	1223
Fence-post	W. Tabken	31,800	Nov. 7	89	1133
Fence-tool member	D. D. Stetler	30,281	Feb. 28	86	1490
Fence. Wire	A. L. Kitselman	31,092	June 27	87	2312
Fence. Wire	J. H. Srofe	30,420	Mar. 28	86	2160
Fence. Wire	J. H. Srofe	30,421	Mar. 28	86	2160
Fence. Wire	J. H. Srofe	30,912	May 30	87	1599
Fence. Wire	J. H. Srofe	31,150	July 4	88	183
Fence. Wire	J. H. Srofe	31,474	Aug. 29	88	1697
Fence. Wire	J. H. Srofe	31,475	Aug. 29	88	1697
Fence. Wire	J. H. Srofe	31,476	Aug. 29	88	1697
Fence. Wire	J. H. Srofe	31,687	Oct. 17	89	512
Fencing-tool	E. Anderson	31,282	July 25	88	710
File. Letter or bill	C. C. Wilson and G. Brownlie	31,671	Oct. 17	89	510
File or holder. Paper	W. Todd	29,918	Jan. 3	86	170
Filter-press plate	J. H. Hinken and J. E. Turney	31,890	Nov. 28	89	1852
Finger-ring	J. H. Fink	30,455	Apr. 4	87	165
Finger-ring	C. H. Pfeil	30,647	May 2	87	876
Fire-cracker body	C. L. Curtis	30,658	May 2	87	877
Fire-cracker charge and stem	L. Nordlinger	30,659	May 2	87	877
Fire-cracker holder	W. Heffner	31,454	Aug. 22	88	1521
Fire-escape-ladder panel	J. C. Tate	32,036	Dec. 26	89	2642
Fire-plug box	L. J. Howard	30,738	May 9	87	1066
Fire-plug box	L. J. Howard	30,739	May 9	87	1066
Fire-pot. Air-conduit	W. H. Shick	31,445	Aug. 22	88	1520
Fire-pot lining-section	A. B. Clunies	31,196	July 11	88	377
Fire-pot lining-section	A. B. Clunies	31,197	July 11	88	377
Fire-pot lining-section	A. B. Clunies	31,198	July 11	88	378
Fire-pot lining-section	J. W. Kennedy	30,317	Mar. 7	86	1628
Fireproof floors. Filling-block for	F. Selby	30,570	Apr. 18	87	504
Flag or banner	W. F. Coston	30,976	June 13	87	1946
Flags. Field for	W. N. Paulson	31,453	Aug. 22	88	1521
Flower-holder for personal wear	C. N. Littlehale	30,653	May 2	87	876
Flush-tank casing	O. K. Ascher	31,009	June 13	87	1951
Fodder-cutter fan-casing and frame	J. Dick	31,489	Sept. 5	88	1891
Food-cutter perforated plate	C. B. Hopkins	31,680	Oct. 17	89	511
Fork and spoon. Combined	G. E. Whitcomb and J. E. Barnard	30,129	Feb. 7	86	985
Fork. Dessert-	G. T. Phillips and D. F. Stayman	31,575	Oct. 3	89	178
Fork. Loosening-	F. M. Swartz	31,896	Nov. 28	89	1853
Fruit-gatherer frame	D. B. Rock	31,152	July 4	88	183
Fur trimming. Imitation	A. Bierman	30,127	Jan. 31	86	793
Furnace	L. S. Pfouts	30,414	Mar. 28	86	2159
Furnace-body	D. S. Richardson	30,681	May 2	87	881
Furnace-casing	L. S. Pfouts	30,638	Apr. 25	87	689
Furniture-leg	J. T. Kitchen	31,289	July 25	88	711
Gage case. Recording-	W. H. Bristol	30,194	Feb. 14	86	1160
Gage. Section-liner	E. G. Thomas	31,837	Nov. 14	89	1334
Game-board	J. Altshuler	30,210	Feb. 14	86	1162
Game-board	W. Bott	30,467	Apr. 4	87	167
Game-board	W. C. Breitenbach	30,395	Mar. 28	86	2156
Game-board	M. H. Eveleth	31,815	Nov. 7	89	1136
Game-board	P. Fleming and J. Lyon	31,104	June 27	87	2314
Game-board	J. H. Fuertes	29,998	Jan. 10	86	338
Game-board	W. H. Fullington	30,379	Mar. 21	86	1977
Game-board	F. F. Gerry	31,760	Oct. 31	89	911
Game-board	H. L. Haskell	31,018	June 13	87	1953
Game-board	A. E. Hourd	30,396	Mar. 28	86	2156
Game-board	E. S. Kelley	30,640	Apr. 25	87	690
Game-board	A. C. La Monda	31,656	Oct. 10	89	347
Game-board	M. Lecloux	31,908	Nov. 28	89	1855
Game-board	A. E. Libby	31,907	Nov. 28	89	1855
Game-board	S. M. Lutz	29,999	Jan. 10	86	338
Game-board	C. A. Michaels	31,105	June 27	87	2314
Game-board	J. C. Neyhart	31,019	June 13	87	1953
Game-board	W. H. Pound	30,558	Apr. 18	87	502
Game-board	E. Ripley and J. L. Thayer	31,612	Oct. 3	89	184
Game-board	P. R. G. Sjöström	30,466	Apr. 4	87	167
Game-board	W. A. Stark and D. A. Craig	31,657	Oct. 10	89	347
Game-board	R. T. Wallace	31,263	July 18	88	539
Game-board	V. W. Wilson	31,419	Aug. 15	88	1327
Game-counter	G. H. Harris	30,208	Feb. 14	86	1162
Game-counter	G. H. Harris	30,209	Feb. 14	86	1162
Game-counter	E. L. Williams	30,158	Feb. 7	86	990

Alphabetical list of designs—Continued.

Design.	Name.	No.	Date.	Official Gazette. Vol.	Page.
Game-frame	V. W. Wilson	31,418	Aug. 15	88	1327
Game or puzzle board	W. C. Breitenbach	31,295	July 25	88	712
Game-standard	H. R. English	30,310	Mar. 7	86	1627
Game-table	A. A. Longman	30,380	Mar. 21	86	1977
Game-table	J. A. Romspert	31,377	Aug. 8	88	1149
Game-table top	A. A. Longman	30,468	Apr. 4	87	167
Garment. Bifurcated	H. Jacob	31,270	July 18	88	540
Garment. Bifurcated nether	J. A. Scriven	31,538	Sept. 19	88	2237
Garment. Bifurcated nether	J. A. Scriven	31,539	Sept. 19	88	2237
Garment. Bifurcated nether	J. A. Scriven	31,540	Sept. 19	88	2237
Garment. Bifurcated nether	J. A. Scriven	31,541	Sept. 19	88	2237
Garment. Bifurcated nether	J. A. Scriven	31,542	Sept. 19	88	2238
Garment. Bifurcated nether	J. A. Scriven	31,571	Sept. 26	88	2407
Garment. Bifurcated nether	J. A. Scriven	31,615	Oct. 3	89	185
Garment. Bifurcated nether	J. A. Scriven	31,616	Oct. 3	89	185
Garment. Bifurcated nether	J. A. Scriven	31,660	Oct. 10	89	348
Garment. Bifurcated nether	J. A. Scriven	31,661	Oct. 10	89	348
Garment. Bifurcated nether	J. A. Scriven	31,704	Oct. 17	89	515
Garment. Bifurcated nether	J. A. Scriven	31,770	Oct. 31	89	913
Garment. Bifurcated nether	J. A. Scriven	31,771	Oct. 31	89	913
Garment. Bifurcated nether	J. A. Scriven	31,772	Oct. 31	89	913
Garment-fastener member	P. Luttman	31,577	Oct. 3	89	179
Garment-hanger	F. Sager	30,231	Feb. 21	86	1314
Garment. Shoulder-	F. F. Amsden	30,867	May 23	87	1391
Garment-supporter	E. N. La Veine	30,918	May 30	87	1600
Garment-supporter	E. I. Rosenfeld	30,919	May 30	87	1600
Garment-supporter holder	D. H. Warner	31,269	July 18	88	540
Garment-supporter loop	G. E. Adams	31,912	Nov. 28	89	1855
Garment-supporter loop	G. E. Adams	31,994	Dec. 19	89	2451
Garter	E. B. Bullock	31,483	Aug. 29	88	1699
Gas-burner	H. F. Gabel	30,668	May 2	87	879
Gas-burner	C. D. Gervin	30,619	Apr. 25	87	686
Gas-burner	A. A. Strom	30,901	May 30	87	1597
Gas burner. Acetylene-	H. E. Shaffer	31,030	June 20	87	2108
Gas-burner face-board	J. H. Diamond	30,545	Apr. 11	87	352
Gas-burner mantle-support	C. H. Frye	30,902	May 30	87	1597
Gas generators. Carbid-holder for acetylene-	A. A. Strom	30,204	Feb. 14	86	1161
Gas generators. Carbid-holder for acetylene-	A. A. Strom	30,205	Feb. 14	86	1162
Gas-meter-diaphragm hoop	J. Hearne	30,029	Jan. 17	86	483
Gas-purifier	B. E. Chollar	31,754	Oct. 31	89	910
Gasket	J. F. Morris	31,451	Aug. 22	88	1521
Gear-case member	C. H. Metz	30,409	Mar. 28	86	2159
Gear-case member	C. H. Metz	30,410	Mar. 28	86	2159
Gear-wheel housing	J. Schmitt	31,977	Dec. 12	89	2253
Generator-shell	E. P. Waggoner	30,320	Mar. 7	86	1629
Glass chimney	J. Beiswanger	29,969	Jan. 10	86	334
Glass disk	P. H. Healy	30,267	Feb. 28	86	1488
Glass-holder	G. W. Hampton	31,125	July 4	88	179
Glass light	S. Marcus	30,446	Mar. 28	86	2164
Glass or light	W. B. Jacobs	30,000	Jan. 10	86	338
Glass or light	W. B. Jacobs	30,001	Jan. 10	86	338
Glass or light	W. B. Jacobs	30,002	Jan. 10	86	339
Glass. Plate or pane of	J. Locke	31,761	Oct. 31	89	911
Glass. Plate or pane of	J. Locke	31,762	Oct. 31	89	911
Glass. Plate or pane of	J. Locke	31,763	Oct. 31	89	911
Glass. Plate or pane of	J. Locke	31,764	Oct. 31	89	911
Glass. Plate or pane of	J. Locke	31,765	Oct. 31	89	911
Glass receptacle	C. W. Klein	31,885	Nov. 28	89	1851
Glass. Sheet-	C. C. Hartung	31,700	Oct. 17	89	514
Glass. Sheet or plate	E. Offenbacher	30,085	Jan. 31	86	786
Glass vessel	A. H. Heisey	31,078	June 27	87	2310
Glass vessel	L. B. Martin	30,047	Jan. 24	86	623
Glass vessel. Cut-	T. B. Clark	30,086	Jan. 31	86	786
Glass vessel. Cut-	W. H. Gibbs	31,781	Nov. 7	89	1130
Glove	D. H. Murphy	31,163	July 4	88	185
Glove-blank	P. J. Braun	31,658	Oct. 10	89	347
Glove-fastener	S. F. Paul	31,029	June 20	87	2108
Glove-fastener stud member	M. D. Shipman	31,503	Sept. 12	88	2060
Golf-ball	G. A. Barnes	29,949	Jan. 3	86	176
Golf-ball	J. and D. Foulis	30,378	Mar. 21	86	1977
Golf-stick handle	W. A. Griffith	30,708	May 2	87	886
Golf-tee	A. Sewall	31,878	Nov. 21	89	1662
Graft-cutting blade	J. W. Wood	30,675	May 2	87	880
Grain-separator straw-rack	J. Fahrney	30,581	Apr. 18	87	507
Graining-tool	A. E. Robson	31,439	Aug. 22	88	1518
Graphophone-frame	J. W. Jones	31,921	Dec. 5	89	2055
Grass-cutting blade	H. S. Earle	30,478	Apr. 4	87	169
Grate-bar	D. S. Richardson	29,924	Jan. 3	86	171
Grate-bar	D. S. Richardson	29,925	Jan. 3	86	171
Grate-bar	D. S. Richardson	29,926	Jan. 3	86	171
Grate-bar	D. S. Richardson	29,927	Jan. 3	86	171
Grate-bar	D. S. Richardson	29,928	Jan. 3	86	171
Grate-bar	O. Thost	30,505	Apr. 4	87	173
Grate-bar	O. Thost	30,506	Apr. 4	87	173
Grate-hook shell	B. W. Burdick	31,908	Nov. 28	89	1854
Grater casing. Nutmeg-	W. C. Day	31,437	Aug. 22	88	1518
Grave-guard	H. F. Geiger	30,870	May 23	87	1391
Grave-marker	E. J. Murphy	30,813	May 16	87	1226
Grinders. Bracket for sickle-	A. L. Reiner	31,093	June 27	87	2312
Grinding-wheel	W. A. Pendry	30,283	Feb. 28	86	1490
Grooving-tool blank	T. E. O'Brien	30,671	May 2	87	879
Gutter-hanger	W. Heib	31,508	Sept. 12	88	2061
Gutter-hanger shank	W. Heib	31,509	Sept. 12	88	2061
Hair-drier	H. E. Bingham	30,229	Feb. 21	86	1314
Hair-holder	N. M. Boyajian	30,461	Apr. 4	87	166
Hame attachment	D. H. Surghnor	30,730	May 9	87	1065

Alphabetical list of designs—Continued.

Design.	Name.	No.	Date.	Official Gazette. Vol.	Page.
Hammer and staple and nail puller	J. McCormick	30,445	Mar. 28	86	2164
Hammer-head	D. S. Williams and F. R. Waters	31,244	July 18	88	536
Hammer. Tack-	J. F. Duffy	29,984	Jan. 10	86	336
Hammock-back	W. A. Green	30,256	Feb. 21	86	1318
Handkerchief	A. Olson	32,051	Dec. 26	89	2647
Handle-bar grip	W. E. De Witt	31,050	June 20	87	2111
Harness attachment	R. B. M. Colvin	31,041	June 20	87	2110
Harness D	O. H. Muntz	31,938	Dec. 5	89	2058
Harness-loop	A. Lobdell	30,098	Jan. 31	86	789
Harness-plate	R. W. Jones	30,592	Apr. 18	87	508
Harness-support	D. D. Torpey	31,595	Oct. 3	89	182
Hassock	G. B. Green	30,509	Apr. 4	87	174
Hat	N. F. Conway	31,915	Nov. 28	89	1856
Hat-band protector	M. P. Allen	31,844	Nov. 14	89	1335
Hat-box	H. A. Dekay	31,402	Aug. 15	88	1324
Hat-fastener	C. Ebert and H. C. Shaw	30,462	Apr. 4	87	166
Hat-holder	S. E. Griggs	30,463	Apr. 4	87	167
Hat-holder	H. D. Jones	31,481	Aug. 29	88	1699
Hat-lining	F. Mack	31,423	Aug. 15	88	1328
Hat-rack	A. J. Curry	30,121	Jan. 31	86	792
Hat. Straw	S. C. Townsend	31,845	Nov. 14	89	1335
Hat-supporting band	R. A. Bliss	30,327	Mar. 7	86	1630
Hatchet or ax head	J. B. Charpiot	30,736	May 9	87	1066
Headlight-case. Locomotive	S. H. Wheelhouse	30,334	Mar. 14	86	1797
Headlight-case. Locomotive	S. H. Wheelhouse	30,335	Mar. 14	86	1797
Headlight. Locomotive-	J. N. Barr	30,146	Feb. 7	86	988
Heater	S. Boal	31,833	Nov. 14	89	1334
Heater	J. L. Gobeille	30,907	May 30	87	1598
Heater	J. A. Kline	30,858	May 23	87	1389
Heater	J. A. Kline	31,477	Aug. 29	88	1698
Heater	J. S. MacKenzie	30,143	Feb. 7	86	987
Heater attachment	W. H. Shick	30,906	May 30	87	1598
Heater base-section	J. A. Kline	31,869	Nov. 21	89	1661
Heater casing. Water-	C. O. F. Youngstrom	31,810	Nov. 7	89	1135
Heater. Electric	J. E. Meek	30,598	Apr. 18	87	509
Heaters. Section for hot-water	W. H. Page	30,105	Jan. 31	86	790
Heel	R. McKay	30,040	Jan. 17	86	485
Heel	H. O'Sullivan	31,382	Aug. 8	88	1150
Heel. Boot or shoe	C. Rystrom	31,497	Sept 5	88	1893
Heel. Boot or shoe	A. Sydeman	30,926	May 30	87	1601
Heel-counter	G. Morton and A. J. Lyons	29,951	Jan. 3	86	176
Heel. Cushion-	J. Zsiday	31,162	July 4	88	185
Heel end	W. B. Arnold	31,567	Sept. 26	88	2407
Heel-plate	W. Kratz	30,162	Feb. 7	86	991
Heel-plate	W. Kratz	30,163	Feb. 7	86	991
Heel-plate	W. Kratz	30,164	Feb. 7	86	991
Heel-plate	W. Kratz	30,294	Feb. 28	86	1492
Heel-plate	J. R. Perry	31,987	Dec. 12	89	2255
Heel. Shoe-	A. A. Kohn	31,330	Aug. 1	88	941
Helmet	C. F. Lehmann	30,702	May 2	87	885
Hinge	A. Behrens	30,022	Jan. 17	86	481
Hinge	H. T. Bush	31,488	Sept. 5	88	1891
Hinge	E. Cox	30,895	May 30	87	1596
Hinge	F. Decker	30,721	May 9	87	1063
Hinge	F. E. Ranney	31,307	Aug. 1	88	937
Hinge	W. Taylor	30,954	June 6	87	1773
Hinge	A. D. Tyler, Jr	30,020	Jan. 17	86	481
Hinge	A. D. Tyler, Jr	30,021	Jan. 17	86	481
Hinge. Barn-door	J. W. Jones	32,032	Dec. 26	89	2643
Hinge. Car-door	J. W. Jones	32,031	Dec. 26	89	2643
Hinge. Door-	A. D. Fritts	31,442	Aug. 22	88	1519
Hinge. Door-hanger	J. C. Gabel, Jr	31,592	Oct. 3	89	181
Hinge. Gate-	W. R. White	31,750	Oct. 31	89	909
Hinge guard-arm	J. H. Pineo	30,953	June 6	87	1773
Hinge-link	S. C. Cary	31,188	July 11	88	376
Hinge member	L. P. Baitinger and T. H. Berkley	31,084	June 27	87	2311
Hinge-staple	W. R. White	31,281	July 25	88	709
Hitch-ring. Safety	W. Wheeler	31,189	July 11	88	376
Hoe	D. H. Baumgardner	31,633	Oct. 10	89	343
Hoe. Garden-	B. Schmaltz	31,826	Nov. 14	89	1333
Hog-holder	D. N. Markillie	30,999	June 13	87	1950
Holdback	W. W. Knipple	31,979	Dec. 12	89	2253
Hoof-pad	W. J. Kent	31,642	Oct. 10	89	345
Hook	T. Alker	31,995	Dec. 19	89	2452
Hook	E. Dederick	31,578	Oct. 3	89	179
Hook	W. P. Murphy	30,609	Apr. 25	87	685
Hook	H. A. Sévigné	29,981	Jan. 10	86	336
Hook-and-eye fastenings. Eye member for	A. H. Cobb	31,787	Nov. 7	89	1131
Hook. Back-band	H. P. Quin	30,096	Jan. 31	86	788
Hook. Coat and hat	F. L. Johnson	30,770	May 16	87	1219
Hook for waistband-fastenings	W. I. Everson	30,950	June 6	87	1773
Hook. Garment-	I. P. Doolittle	30,610	Apr. 25	87	685
Hook. Garment-	F. Macey	30,464	Apr. 4	87	167
Hook. Garment-	N. B. Updike	31,177	July 11	88	374
Hook. Garment-fastening	A. H. Cobb	31,786	Nov. 7	89	1131
Hook. Harness-	C. P. Larsen	32,038	Dec. 26	89	2644
Hook. Harnace trace-	J. R. Allen	31,978	Dec. 12	89	2253
Hook. Lacing-	J. J. Tremble	29,919	Jan. 3	86	170
Hook. Meat-	F. C. Rawley	31,631	Oct. 10	89	343
Hook member. Snap-	J. H. Forster	30,897	May 30	87	1596
Hook. Picture-	J. V. Kaler	30,719	May 9	87	1063
Hook-pin	J. A. Priest	30,754	May 16	87	1217
Hook. Snap-	W. P. Murphy	31,003	June 13	87	1950
Hook. Trace-	H. N. Crawford	30,178	Feb. 14	86	1157
Hook. Trousers-	A. J. Shipley	30,232	Feb. 21	86	1313
Hoop for barrels, &c	H. Mann	30,338	Mar. 14	86	1797

Alphabetical list of designs—Continued.

Design.	Name.	No.	Date.	Official Gazette. Vol.	Page.
Hop-pole twine-holder	J. L. Marble	30,791	May 16	87	1222
Horn	A. Leforestier	30,473	Apr. 4	87	168
Horses. Foot-guard for interfering	W. J. McCurdy	32,017	Dec. 19	89	2455
Horseshoe	D. Howe	30,966	June 6	87	1775
Horseshoe	H. Paar	29,938	Jan. 3	86	173
Horseshoe-pad	R. T. Badgley	30,482	Apr. 4	87	170
Horseshoe-pad	E. D. Flint	30,095	Jan. 31	86	788
Horseshoe-pad	E. D. Flint	30,274	Feb. 28	86	1489
Horseshoe-pad	R. Whitaker	30,731	May 9	87	1065
Hose-clamp member	F. D. Johnston	31,688	Oct. 17	89	512
Hose-nozzle	E. Cliff	30,956	June 6	87	1773
Hose-supporter	R. W. Parramore	31,816	Nov. 7	89	1136
Hose-supporter belt	E. W. Thayer	31,331	Aug. 1	88	941
Hot-air registers. Heat-deflector for	E. J. Tracy	30,059	Jan. 24	86	625
Hot-water-bag cover	H. Lang	31,623	Oct. 10	89	341
Hub. Ball-bearing	J. H. Stokes and A. A. Johnson	29,946	Jan. 3	86	175
Hydrocarbon-burner	B. N. Hawes	31,031	June 20	87	2108
Hydrocarbon-burner	H. Merkel	32,002	Dec. 19	89	2453
Hydrocarbon-burner base	F. Butcher	31,834	Nov. 14	89	1334
Ice-cream mold	J. D. Anderson	31,256	July 18	88	538
Ice-creeper	C. W. Brown	31,421	Aug. 15	88	1327
Ice-plow cutting-point	G. A. Birch	32,016	Dec. 19	89	2455
Incubators, &c. Moisture-tank for	J. L. Macy	30,900	May 30	87	1597
Indicator	E. W. Bodmer	30,019	Jan. 17	86	481
Inhaler	J. M. Munyon	30,312	Mar. 7	86	1628
Insect-exterminator	E. H. Hightower	30,528	Apr. 11	87	349
Insulating-plate for electric lamps	W. B. McDonald	31,970	Dec. 12	89	2252
Insulating-plug for electric-line supports	L. A. Williams	31,838	Nov. 14	89	1334
Insulator	V. G. Converse	30,637	Apr. 25	87	689
Insulator	J. L. Morgan	30,564	Apr. 18	87	503
Insulator	F. H. Withycombe	31,798	Nov. 7	89	1133
Insulator	F. H. Withycombe	31,799	Nov. 7	89	1133
Insulator-cap. Electrical	G. W. Prouty	30,339	Mar. 14	86	1797
Insulator. Ring	H. P. Copeland	31,861	Nov. 21	89	1659
Ironing-board	J. Boesel	30,286	Feb. 28	86	1491
Ironing-board	C. A. Powell	31,719	Oct. 24	89	699
Ironing-board	C. H. Smith	31,756	Oct. 31	89	910
Jar	L. A. Ragsdale	29,968	Jan. 10	86	334
Jar. Butter-	W. H. Kremer	30,087	Jan. 31	86	787
Jar-cap fastener	C. H. Hess	31,435	Aug. 22	88	1518
Jar-cover	W. H. Kremer	30,265	Feb. 28	86	1488
Jar. Milk-	J. D. Miller	30,431	Mar. 28	86	2162
Jar or bottle cover blank	E. L. Hauck	30,613	Apr. 25	87	685
Jar. Paste-	A. N. Ritz	31,181	July 11	88	375
Jewelry. Ornamented stone for	J. L. Herzog	31,220	July 18	88	531
Jig-screens. Frame for supporting ore or mineral washing	C. J. Hodge	29,929	Jan. 3	86	172
Jig-screens. Frame for supporting ore or mineral washing	C. J. Hodge	29,930	Jan. 3	86	172
Jig-screens. Frame for supporting ore or mineral washing	C. J. Hodge	29,931	Jan. 3	86	172
Jig-screens. Frame for supporting ore or mineral washing	C. J. Hodge	29,932	Jan. 3	86	172
Jig-screens. Frame for supporting ore or mineral washing	C. J. Hodge	29,933	Jan. 3	86	172
Jig-screens. Frame for supporting ore or mineral washing	C. J. Hodge	29,934	Jan. 3	86	172
Jigs. Screen-supporting frame for mineral or ore washing	C. J. Hodge	30,106	Jan. 31	86	790
Journal for lay-boys	B. W. Hall	31,507	Sept. 12	88	2061
Kaleidoscope	H. G. Welty	31,020	June 13	87	1953
Kaleidoscope-standard	G. Wale	30,309	Mar. 7	86	1627
Kettle. Fruit-	N. Cossman	31,589	Oct. 3	89	181
Kite	J. Doyle	31,724	Oct. 24	89	700
Knee-protector	D. Gimbel and A. Decker	30,552	Apr. 11	87	353
Knife	W. D. Arnett	31,965	Dec. 12	89	2251
Knife. Chopping-	J. Jacobs	31,436	Aug. 22	88	1518
Knife. Corn-	H. S. Earle	30,876	May 30	87	1594
Knife-handle	A. Kastor	31,298	Aug. 1	88	936
Knife. Paring-	H. H. Sheely	30,674	May 2	87	880
Knife. Pocket-	E. Lindsley	31,173	July 11	88	373
Knit-slipper blank	E. R. Olmsted	31,023	June 13	87	1954
Knitting-machine cam	W. Shaffer	31,902	Nov. 28	89	1854
Knob. Door-	W. T. Adams	30,720	May 9	87	1063
Knob top or cap	A. T. Matthews	30,436	Mar. 28	86	2163
Knob top or cap	A. T. Matthews	30,437	Mar. 28	86	2163
Knob top or cap	A. T. Matthews	30,438	Mar. 28	86	2163
Knob top or cap	A. T. Matthews	30,439	Mar. 28	86	2163
Kraut-cutter	N. Ellis	30,290	Feb. 28	86	1492
Label	W. F. Clark	31,379	Aug. 8	88	1149
Label	C. A. Speakman	30,711	May 9	87	1062
Label	N. Witsch	30,555	Apr. 18	87	502
Lace cover or spread	T. K. Stanley	30,930	May 30	87	1601
Lace-fastener	W. H. Pardee and F. E. Judson	30,652	May 2	87	876
Lace fastener. Shoe-	G. H. Richards	31,241	July 18	88	535
Lace-fastening	H. A. Frye	31,843	Nov. 14	89	1335
Lace hook. Shoe-	M. H. Lipman	30,301	Feb. 28	86	1493
Lace or ribbon holder	T. D. Hobbs	31,523	Sept. 19	88	2233
Ladle or similar article	W. A. Jameson	30,648	May 2	87	876
Lamp	A. K. Miller	31,182	July 11	88	375
Lamp	L. C. Tiffany	30,665	May 2	87	878
Lamp. Acetylene-gas bicycle-	C. Kelly	30,666	May 2	87	878
Lamp. Bicycle-	G. Havell	30,448	Mar. 28	86	2165
Lamp. Bicycle-	G. Havell	30,449	Mar. 28	86	2165
Lamp. Bicycle-	W. C. Homan	31,145	July 4	88	182
Lamp. Bicycle-	A. F. Rockwell	30,540	Apr. 11	87	351
Lamp. Bicycle-	E. L. Williams	30,150	Feb. 7	86	989
Lamp-body	P. C. Avery	30,941	June 6	87	1771
Lamp-body	A. L. Buffington	31,856	Nov. 21	89	1658
Lamp-body	L. S. Buffington	30,082	Jan. 31	86	786
Lamp-body	L. S. Buffington	30,332	Mar. 14	86	1796
Lamp-body	W. S. Creveling	32,001	Dec. 19	89	2453
Lamp-body	F. W. Hedgeland	31,887	Nov. 28	89	1851

Alphabetical list of designs—Continued.

Design.	Name.	No.	Date.	Official Gazette. Vol.	Page.
Lamp-body	C. Hubert	31,711	Oct. 24	89	698
Lamp-body	M. Newgold	31,712	Oct. 24	89	698
Lamp-body	F. Rhind	30,249	Feb. 21	86	1317
Lamp-body	D. S. Williams	31,969	Dec. 12	89	2252
Lamp-body	D. S. Williams	32,000	Dec. 19	89	2452
Lamp-body. Portable	G. F. Hitzelberger	29,939	Jan. 3	86	174
Lamp bulb. Electric-	L. L. Davis	30,856	May 23	87	1389
Lamp-burner	C. K. Harding	31,406	Aug. 15	88	1325
Lamp-burner	C. L. Marshall	30,333	Mar. 14	86	1796
Lamp-burner	F. B. Palmer	30,620	Apr. 25	87	686
Lamp casing and support. Electric-arc	C. E. Harthan	31,146	July 4	88	182
Lamp casing. Electric-arc	C. E. Harthan	30,686	May 2	87	882
Lamp-chimney	W. Buttler	30,250	Feb. 21	86	1318
Lamp-chimney	R. Marsh	30,080	Jan. 31	86	785
Lamp-chimney	R. Marsh	30,081	Jan. 31	86	786
Lamp-chimney cleaner	O. Peters	30,527	Apr. 11	87	349
Lamp-chimney for incandescent gas-lights	M. Herskovitz	30,367	Mar. 21	86	1975
Lamp. Cycle-	J. H. Lancaster	31,318	Aug. 1	88	939
Lamp-dome	F. J. Duffner	31,237	July 18	88	534
Lamp-fixture	G. Bohner	30,903	May 30	87	1597
Lamp-fixture	C. R. Gillett	30,621	Apr. 25	87	686
Lamp-fixture	L. C. Hills	30,084	Jan. 31	86	786
Lamp-fixture	J. F. Williams	30,147	Feb. 7	86	988
Lamp-fixture	J. F. Williams	30,148	Feb. 7	86	989
Lamp-fixture	J. F. Williams	30,149	Feb. 7	86	989
Lamp-fixture	J. F. Williams	30,768	May 16	87	1219
Lamp-fixture	J. F. Williams	30,769	May 16	87	1219
Lamp. Gas-	W. A. Barrows	30,447	Mar. 28	86	2165
Lamp. Gas-	S. P. Watt	31,626	Oct. 10	89	342
Lamp generator. Hydrocarbon-	W. Hawks	31,032	June 20	87	2108
Lamp generator. Vapor-	T. J. Christy	30,726	May 9	87	1064
Lamp-globe	T. W. Synnott	31,968	Dec. 12	89	2251
Lamp hanger. Incandescent-	H. N. Qualey	30,942	June 6	87	1771
Lamp. Hanging	W. C. Homan	30,725	May 9	87	1064
Lamp. Incandescent electric	H. J. Jaeger	31,317	Aug. 1	88	939
Lamp-lid. Miner's	H. F. Pearce	30,992	June 13	87	1949
Lamp. Portable electric	C. E. Whitney	30,206	Feb. 14	86	1162
Lamp-shade	E. L. Elliott	31,353	Aug. 8	88	1144
Lamp-shade	E. L. Elliott	31,354	Aug. 8	88	1144
Lamp shade. Incandescent-electric	J. H. Wright	30,787	May 16	87	1221
Lamp shade or globe	E. L. Elliott	31,355	Aug. 8	88	1145
Lamp shade or globe	F. L. Elliott	31,356	Aug. 8	88	1145
Lamp shade or globe	E. L. Elliott	31,357	Aug. 8	88	1145
Lamp shade or globe	E. L. Elliott	31,358	Aug. 8	88	1145
Lamp shade or globe	E. L. Elliott	31,359	Aug. 8	88	1145
Lamp shade or globe	O. A. Mygatt	30,266	Feb. 28	86	1488
Lamp socket. Incandescent-	R. Meyer	32,003	Dec. 19	89	2453
Lamp. Street-	A. E. Shaw and E. S. Sanderson	31,745	Oct. 31	89	909
Lamp. Vapor-	F. G. Frankenberg	30,767	May 16	87	1218
Lamp. Vapor-	F. G. Frankenberg	30,904	May 30	87	1597
Lamps. Generator-shell for hydrocarbon-	W. Hawks	30,993	June 13	87	1949
Lamps. Vapor generator and superheater for incandescent	W. B. Rulon and J. S. Keen, Jr	30,546	Apr. 11	87	352
Lantern-box	O. J. Rhodes	31,744	Oct. 31	89	908
Lantern-bracket	H. B. Arnold	31,250	July 25	88	709
Lantern-bracket	F. Rhind	30,491	Apr. 4	87	171
Lap-robe	M. B. Showen	31,484	Aug. 29	88	1699
Latch-case	H. G. Voight	31,928	Dec. 5	89	2057
Latch-case. Rim	H. R. Towne	31,087	June 27	87	2311
Latch for window-fasteners. Gravity-	W. L. and C. T. Fields	31,635	Oct. 10	89	343
Latch. Gate-	W. R. White	31,532	Sept. 19	88	2235
Latch. Gravity-	S. S. Connor	30,846	May 23	87	1387
Latch-lever	W. R. White	31,974	Dec. 12	89	2252
Latch-operating bar. Gate-	W. R. White	31,550	Sept. 26	88	2403
Latch or lock case	H. G. Voight	30,845	May 23	87	1387
Lathe-plate	O. W. Schaum	30,349	Mar. 14	86	1799
Lathe-plate	O. W. Schaum	30,350	Mar. 14	86	1800
Lathe tool-holder. Metal-working-	C. Jackson	31,863	Nov. 21	89	1659
Lavatory. One-piece	H. Hayssen	30,572	Apr. 18	87	505
Lavatory. One-piece	H. Hayssen	30,573	Apr. 18	87	505
Lavatory. Porcelain	W. C. Peet	30,135	Feb. 7	86	986
Leather-finishing roll	W. H. Downs	30,854	May 23	87	1389
Legging	C. S. and A. S. Huntington	30,703	May 2	87	885
Lemon-squeezer frame	A. Baumgarten	31,934	Dec. 5	89	2058
Lens or glass for gratings	J. Jacobs	30,144	Feb. 7	86	987
Lens or glass for gratings	J. Jacobs	30,145	Feb. 7	86	988
Lever	W. H. Fullington	30,444	Mar. 28	86	2164
Lever	A. A. Longman	30,239	Feb. 21	86	1315
Licorice stick	C. A. Smylie	31,359	Aug. 15	88	1322
Lifting-jack stand	F. I. Joyce	30,199	Feb. 14	86	1161
Light-fount	L. S. Buffington	30,083	Jan. 31	86	786
Lightning-arrester	A. Morgan	30,109	Jan. 31	86	790
Link	J. Macphail	30,489	Apr. 4	87	171
Liquid-receptacle	J. Rosenberg	30,534	Apr. 11	87	350
Lock and latch keeper	H. G. Voight	31,929	Dec. 5	89	2057
Lock-bar for covers	H. Kahn	30,411	Mar. 28	86	2159
Lock-case	O. P. Arnold	31,583	Oct. 3	89	180
Lock-case	P. Rodgers	30,314	Mar. 7	86	1628
Lock-case	H. G. Voight	30,894	May 30	87	1596
Lock-hasp	W. Roemer	31,794	Nov. 7	89	1132
Locket	B. M. Graff	30,646	May 2	87	876
Locomotive-tender coupling	S. J. Meeker	30,682	May 2	87	881
Locomotive-tender-coupling bracket-plate	S. J. Meeker	30,683	May 2	87	881
Loom guide-chute	G. O. Draper	30,371	Mar. 21	86	1975
Lorgnette-case	H. L. Grasmuk	29,960	Jan. 10	86	332
Lorgnette-case	H. L. Grasmuk	29,961	Jan. 10	86	332
Lorgnette-case	H. L. Grasmuk	29,962	Jan. 10	86	333

Alphabetical list of designs—Continued.

Design.	Name.	No.	Date.	Official Gazette. Vol.	Page.
Lorgnette-case	H. L. Grasmuk	29,963	Jan. 10	86	333
Lorgnette-case	C. L. Uhry	31,672	Oct. 17	89	510
Lubricator. Sight-feed cylinder-	F. W. Bittman	30,593	Apr. 18	87	508
Lunch-box. Bicycle	J. Algots	31,403	Aug. 15	88	1324
Magnet frame. Field-	W. P. Freeman	31,238	July 18	88	535
Mail-bag staple	A. E. Waggoner	32,015	Dec. 19	89	2454
Mandolin-body	W. H. Smaw	31,918	Dec. 5	89	2054
Mandolin-body	H. J. Weckwerth	31,077	June 27	87	2310
Manhole-cover	T. P. Greger	30,631	Apr. 25	87	688
Manhole-cover	T. P. Greger	30,632	Apr. 25	87	688
Manhole-cover	T. P. Greger	30,633	Apr. 25	87	688
Manhole-cover	T. P. Greger	30,695	May 2	87	884
Manhole-cover	T. P. Greger	30,696	May 2	87	884
Manhole-cover	T. P. Greger	30,697	May 2	87	884
Manhole-cover	T. P. Greger	30,804	May 16	87	1224
Manhole-cover	T. P. Greger	30,805	May 16	87	1224
Manhole-cover	T. P. Greger	30,806	May 16	87	1225
Manhole-cover	T. P. Greger	30,807	May 16	87	1225
Manhole-cover	T. P. Greger	30,808	May 16	87	1225
Manhole-cover	T. P. Greger	30,809	May 16	87	1225
Manhole-cover	T. P. Greger	30,810	May 16	87	1225
Manhole-cover frame	T. P. Greger	30,694	May 2	87	883
Manhole-cover frame	T. P. Greger	30,811	May 16	87	1225
Manhole-cover plate	T. P. Greger	30,812	May 16	87	1226
Mantel	A. S. Nichols	30,402	Mar. 28	86	2158
Masher. Vegetable-	C. Van Winkle	30,067	Jan. 24	86	626
Massage-tool	M. E. Barnet	30,230	Feb. 21	86	1314
Mat	J. B. Kelly	31,881	Nov. 21	89	1663
Mat	J. A. Rennie	30,710	May 9	87	1062
Mat-binder	M. D. Stiles	31,165	July 4	88	186
Mat or similar article	H. W. Hartman	30,075	Jan. 24	86	627
Match	G. R. Ford	30,656	May 2	87	877
Match	G. R. Ford	30,657	May 2	87	877
Match-box	C. Doescher	30,981	June 13	87	1947
Match-box	L. Fritzsche	31,400	Aug. 15	88	1324
Match-box or similar article	W. H. Barbour	31,401	Aug. 15	88	1324
Match-lighter member	W. M. Larsen	30,591	Apr. 18	87	508
Match-safe	S. E. Barney	31,741	Oct. 31	89	908
Match-safe	H. C. Chandlee	30,881	May 30	87	1594
Match-safe	F. Sager	31,027	June 20	87	2108
Match-safe	C. D. Shepard	30,982	June 13	87	1947
Match safe or tray	B. Wolf	30,228	Feb. 21	86	1314
Match safe or tray	B. Wolf	31,299	Aug. 1	88	936
Mattress-frame	G. E. Camp	30,326	Mar. 7	86	1630
Mattress-frame	J. A. Hutchison	30,375	Mar. 21	86	1976
Measure	G. M. Walter	30,051	Jan. 24	86	623
Measure for tea-tables. Rum-	S. W. Ray	31,818	Nov. 14	89	1331
Measuring-cup	H. J. D. Wipf	30,757	May 16	87	1217
Meat-chopper feed-screw	J. W. Brown, Jr	31,310	Aug. 1	88	938
Meat-hanger member	J. J. Fitzgerald	31,309	Aug. 1	88	938
Mechanical jumping frog	A. Weigelt and W. Herms	30,032	Jan. 17	86	483
Mechanical jumping frogs. Scaffold for	A. Weigelt and W. Herms	30,033	Jan. 17	86	483
Medal	E. R. McMaster	31,388	Aug. 15	88	1322
Medal or similar article	E. Lummis	30,752	May 16	87	1216
Medal or similar article	H. K. Solberg	30,643	May 2	87	875
Medal or similar article	W. Vetter	31,964	Dec. 12	89	2251
Medicament vessel for inhalers and nasal douches	J. M. Munyon	30,532	Apr. 11	87	350
Menstruator	B. B. Shea	30,052	Jan. 24	86	624
Metal block	J. M. Hayden	30,469	Apr. 4	87	167
Metal-cutting tool	C. Jackson	31,789	Nov. 7	89	1131
Metal plate	F. D. Van Norman and B. F. Stowell	30,628	Apr. 25	87	688
Metal stock	R. Dulk	30,670	May 2	87	879
Metal stock	C. Graff	32,035	Dec. 26	89	2643
Metal structures. Blank for expanded	H. E. White	31,138	July 4	88	181
Metallic plate	H. R. Englert	31,208	July 11	88	379
Metallic post	S. H. Terry	31,600	Oct. 3	89	182
Metallic post	S. H. Terry	31,601	Oct. 3	89	182
Milk-jar	J. D. Miller	31,681	Oct. 17	89	511
Milk-separator	H. A. Wilhelm	31,590	Oct. 3	89	181
Millstone	J. C. Spindle	30,814	May 16	87	1226
Mirror-frame	N. Malluk	30,330	Mar. 14	86	1796
Mirror-frame, &c	H. E. Miller	30,393	Mar. 28	86	2156
Moistener case. Stamp-	F. R. Grout	30,005	Jan. 17	86	478
Molders' flasks. Cope or drag for	O. Barnett, Jr	30,196	Feb. 14	86	1160
Money-box	C. A. Bailey	31,275	July 25	88	709
Monument	L. S. Hainline	31,161	July 4	88	185
Monument	J. Ossola	31,543	Sept. 19	88	2238
Monument	E. O. Townsend	30,512	Apr. 4	87	174
Monument	E. O. Townsend	31,882	Nov. 21	89	1663
Monument-die	W. H. Young	31,496	Sept. 5	88	1893
Motor-frame	H. H. Wait	30,785	May 16	87	1221
Mouthpiece	J. J. Geraghty	31,395	Aug. 15	88	1323
Mower wheel. Lawn-	J. A. Baker	31,944	Dec. 5	89	2059
Music-staff. Visible pitch	A. R. Parsons	30,888	May 30	87	1595
Musical-instrument body	P. E. Wirt	31,129	July 4	88	179
Nail-file	E. Forquignon	31,119	July 4	88	178
Nail. Slug-	B. F. Mayo	30,112	Jan. 31	86	791
Napkin-ring	S. M. Rosin	31,850	Nov. 21	89	1657
Necklace and watch-chain	J. Bagnall	31,544	Sept. 26	88	2402
Necktie attachment	J. A. Priest	30,457	Apr. 4	87	166
Necktie-fastener	E. V. White	31,576	Oct. 3	89	179
Necktie-frame	W. J. Smith	30,176	Feb. 14	86	1157
Necktie-holder	V. J. Anderson	31,774	Oct. 31	89	914
Necktie-holder	M. Cunningham	30,755	May 16	87	1217
Necktie-holder	D. Haslup	30,701	May 2	87	884
Necktie-holder	D. Haslup	31,394	Aug. 15	88	1323

Alphabetical list of designs—Continued.

Design.	Name.	No.	Date.	Official Gazette. Vol.	Page.
Necktie-holder	C. L. Uhry	31,986	Dec. 12	89	2255
Necktie holder and fastener	C. T. Clark	30,611	Apr. 25	87	685
Necktie-retainer	M. L. Powers	31,430	Aug. 22	88	1517
Neckwear-retainer	W. O. Horn	31,727	Oct. 24	89	701
Needle-book	S. Elias	30,385	Mar. 28	86	2155
Nipple	C. W. Meinecke	31,305	Aug. 1	88	937
Nipple	E. Pearl	31,232	July 18	88	534
Nipple. Nursing-	C. W. Meinecke	31,857	Nov. 21	89	1659
Nipple. Nursing-	C. W. Meinecke	31,884	Nov. 28	89	1851
Nipple. Nursing-	R. E. Pickthall	31,677	Oct. 17	89	511
Nozzle for hardening apparatus	C. W. Sponsel	30,345	Mar. 14	86	1799
Nozzle for hardening apparatus	C. W. Sponsel	30,346	Mar. 14	86	1799
Nozzle member. Spraying-	E. Allier	31,408	Aug. 15	88	1325
Nut-cracker base	A. Baumgarten	30,227	Feb. 21	86	1314
Nut-lock washer	S. C. Carroll	31,714	Oct. 24	89	698
Nut-lock washer	L. M. Chapman and J. M. Gelatt	30,955	June 6	87	1773
Nut-lock washer	H. V. Padfield	30,153	Feb. 7	86	990
Nut-lock washer	H. V. Padfield	30,154	Feb. 7	86	990
Nut-lock washer	H. V. Padfield and J. W. Cornelius	30,440	Mar. 28	86	2163
Nut-locking washer	A. H. McAllister	31,242	July 18	88	535
Nut-pick holder	A. Baumgarten	30,392	Mar. 28	86	2156
Nut. Split	T. L. Paine	30,898	May 30	87	1597
Oar-lock	M. P. Nichols	30,722	May 9	87	1063
Oven	H. Adler	31,905	Nov. 28	89	1854
Oven	H. Adler	31,906	Nov. 28	89	1854
Oven-drum	F. S. Weller	31,692	Oct. 17	89	513
Overshoe	C. J. Bailey	31,217	July 11	88	381
Overshoe ankle attachment	L. S. Hodgson	30,863	May 23	87	1390
Pad	J. J. Schorp and G. Siglinger	31,455	Aug. 22	88	1521
Pad-plate	C. M. Crane	30,275	Feb. 28	86	1489
Padlock-case	L. H. Wales	31,624	Oct. 10	89	342
Palette for china-painting	A. A. Rose	30,172	Feb. 14	86	1156
Pan. Cooking-	J. H. Howle	31,784	Nov. 7	89	1131
Pan cover. Frying-	T. Hinoult	31,464	Aug. 29	88	1695
Pan. Milk-warming	E. Taege	30,508	Apr. 4	87	173
Pan or plate lifter	R. N. Roach	30,316	Mar. 7	86	1628
Pants-guard. Bicycle	J. F. Wright	30,501	Apr. 4	87	173
Paper border. Wall-	C. Ruffly	29,955	Jan. 3	86	177
Paper border. Wall-	H. Wearne	31,956	Dec. 5	89	2062
Paper border. Wall-	H. Wearne	31,989	Dec. 12	89	2215
Paper-cutter, &c	O. L. Story	30,977	June 13	87	1946
Paper-fastener	E. F. Pflueger	31,842	Nov. 14	89	1335
Paper-trimming machines. Cutting-blade for wall-	A. Allen	30,676	May 2	87	880
Paper. Wall-	C. Ruffly	29,956	Jan. 3	86	177
Paper. Wall-	H. Wearne	31,957	Dec. 5	89	2062
Paper. Wall-	H. Wearne	31,958	Dec. 5	89	2062
Paper. Wall-	H. Wearne	31,959	Dec. 5	89	2063
Paper. Wall-	H. Wearne	31,960	Dec. 5	89	2063
Paper. Wall-	H. Wearne	31,961	Dec. 5	89	2063
Paper. Wall-	H. Wearne	31,990	Dec. 12	89	2255
Paper. Wall-	H. Wearne	31,991	Dec. 12	89	2255
Paper. Wall-	H. Wearne	31,992	Dec. 12	89	2255
Paper. Wall-	H. Wearne	32,023	Dec. 19	89	2456
Paper. Wall-	H. Wearne	32,024	Dec. 19	89	2456
Paper. Wall-	H. Wearne	32,054	Dec. 26	89	2647
Paper-weight	S. E. Greenway	31,071	June 27	87	2309
Pattern. Bicycle-trousers	F. W. Beberdick	30,222	Feb. 14	86	1165
Pattern-board	W. Oehler	30,296	Feb. 28	86	1492
Pattern. Coat-	F. W. Beberdick	30,212	Feb. 14	86	1163
Pattern. Coat-	F. W. Beberdick	30,213	Feb. 14	86	1163
Pattern. Coat-	F. W. Bederdick	30,214	Feb. 14	86	1163
Pattern. Coat-	F. W. Beberdick	30,215	Feb. 14	86	1164
Pattern. Coat-	F. W. Beberdick	30,216	Feb. 14	86	1164
Pattern. Coat-	F. W. Beberdick	30,217	Feb. 14	86	1164
Pattern. Coat-	F. W. Beberdick	30,218	Feb. 14	86	1164
Pattern. Coat-	F. W. Beberdick	30,219	Feb. 14	86	1164
Pattern. Coat-	F. W. Beberdick	30,220	Feb. 14	86	1165
Pattern. Coat-	F. W. Beberdick	30,259	Feb. 21	86	1319
Pattern. Shirt-	W. Gerhardt	31,775	Oct. 31	89	914
Pattern. Trousers-	F. W. Beberdick	30,223	Feb. 14	86	1165
Pattern. Trousers-	F. W. Beberdick	30,224	Feb. 14	86	1165
Pattern. Vest-	F. W. Beberdick	30,221	Feb. 14	86	1165
Pattern. Vest-	F. W. Beberdick	30,297	Feb. 28	86	1492
Pattern. Vest-	F. W. Beberdick	30,298	Feb. 28	86	1493
Pattern. Vest-	F. W. Beberdick	30,299	Feb. 28	86	1493
Pedal	E. Klahn	30,351	Mar. 14	86	1800
Pen	G. Malpass	31,498	Sept. 12	88	2059
Pen	G. Malpass	31,519	Sept. 19	88	2233
Pen	G. Malpass	31,668	Oct. 17	89	510
Pen	G. Malpass	31,669	Oct. 17	89	510
Pen and pencil holder	E. L. Prickett	31,458	Aug. 29	88	1695
Pen-extractor base	W. Pincus	30,046	Jan. 24	86	623
Penholder	O. Huber	31,222	July 18	88	532
Penholder	L. B. Lanier	30,130	Feb. 7	86	985
Penholder	G. Oberbeck	31,670	Oct. 17	89	510
Penholder attachment	A. J. Miller	29,917	Jan. 3	86	170
Pen-reservoir	E. Walden	31,852	Nov. 21	89	1658
Pen-wiper	R. S. Taylor	30,557	Apr. 18	87	502
Pen. Writing-	T. E. Smith	29,964	Jan. 10	86	333
Pencil-barrels, &c. Tubing for	E. Todd, Jr	31,579	Oct. 3	89	179
Pencil-case	H. P. Fairchild	31,118	July 4	88	178
Pencil-case	F. McIntyre	31,174	July 11	88	373
Pencil-holder	M. Williams	30,830	May 23	87	1386
Pencil. Lead-	C. H. Tucker	31,072	June 27	87	2309
Pencil-point protector	E. Todd, Jr	31,073	June 27	87	2309
Pessary	E. D. Gray	30,862	May 23	87	1390

Alphabetical list of designs—Continued.

Design.	Name.	No.	Date.	Official Gazette. Vol.	Page.
Photograph holder or easel	P. C. Hill	31,580	Oct. 3	89	179
Photographic card-mount	J. P. Odgers	30,514	Apr. 4	87	175
Photographic card-mount	J. P. Odgers	31,074	June 27	87	2310
Photographic mat or mount	J. P. Odgers	31,581	Oct. 3	89	179
Photographic mats or mounts. Border for	E. Carraine	31,393	Aug. 15	88	1323
Photographic mount	P. J. Stuparich	31,213	July 11	88	380
Photographic-plate holders. Closure for	M. Bull	31,814	Nov. 7	89	1136
Piano pedal member	T. T. Fischer	30,998	June 13	87	1949
Piano-pedal support	T. T. Fischer	30,065	Jan. 24	86	626
Piano-plate	J. Dierdorf	31,277	July 25	88	709
Pick	A. Schlageter and J. Klein	30,408	Mar. 28	86	2158
Picture-exhibiting-machine case	G. E. Knowles	30,180	Feb. 14	86	1157
Picture-frame	H. Seiffert	30,133	Feb. 7	86	986
Picture-hanger	T. J. Bruce	30,179	Feb. 14	86	1157
Pie-printer	F. Stansfield	31,858	Nov. 21	89	1659
Pillow-top	R. Astarita	31,702	Oct. 17	89	515
Pillow-top	R. Astarita	31,703	Oct. 17	89	515
Pillow-top	R. Astarita	31,766	Oct. 31	89	912
Pillow-top	R. Astarita	31,767	Oct. 31	89	912
Pillow-top	R. Astarita	31,768	Oct. 31	89	912
Pillow-top	R. Astarita	31,909	Nov. 28	89	1855
Pin	M. J. Smith	31,065	June 27	87	2308
Pin and ring blank	H. C. Shaw	30,994	June 13	87	1949
Pin. Breast	M. R. Swan	30,714	May 9	87	1062
Pincushion	C. Jones	30,705	May 2	87	855
Pincushion	S. E. Sinclair and H. B. Soutter	31,301	Aug. 1	88	937
Pincushion	S. E. Sinclair and H. B. Soutter	31,302	Aug. 1	88	937
Pin. Safety	A. Bippart	30,390	Mar. 28	86	2156
Pin. Safety	H. H. Taylor	31,303	Aug. 1	88	937
Pin. Safety	S. P. Tomkins	30,131	Feb. 7	86	985
Pin, &c. Stick	G. A. Cramer	30,358	Mar. 21	86	1974
Pin, &c. Stick	A. A. McRae	30,305	Mar. 7	86	1626
Pin. Stick	F. J. Wallace	31,115	July 4	88	177
Pipe	W. Love	31,429	Aug. 22	88	1517
Pipe-clamp	H. A. Wahlert	30,441	Mar. 28	86	2163
Pipe-clamp	H. A. Wahlert	30,442	Mar. 28	86	2164
Pipe-clamp member	H. A. Wahlert	30,538	Apr. 11	87	351
Pipe-coupling	D. J. Galbraith	30,031	Jan. 17	86	483
Pipe-coupling	J. J. Hanrahan	30,487	Apr. 4	87	170
Pipe. Drain	J. G. Furlow	30,318	Mar. 7	86	1628
Pipe member. Tobacco	W. C. Cunningham	30,660	May 2	87	877
Pipe member. Tobacco	W. C. Cunningham	30,661	May 2	87	877
Pitcher or similar article	A. B. Evans	31,284	July 25	88	710
Pitcher or tankard	A. Loetschert	30,978	June 13	87	1946
Plaster, &c. Binder for	J. A. Ettler	31,795	Nov. 7	89	1132
Plate	C. J. Ahrenfeldt	30,522	Apr. 11	87	348
Plate, &c	C. J. Ahrenfeldt	31,620	Oct. 10	89	341
Plate, &c	E. Boote	31,621	Oct. 10	89	341
Plate	A. A. Grametbaur	31,434	Aug. 22	88	1518
Plate. Child's	J. H. Strugnell	32,025	Dec. 26	89	2641
Plate. Dinner	O. W. Schubert	30,561	Apr. 18	87	503
Plate lifting-bar shell	B. W. Burdick	31,904	Nov. 28	89	1854
Plate or similar article	C. J. Ahrenfeldt	31,707	Oct. 24	89	697
Plate or similar article	C. J. Ahrenfeldt	31,708	Oct. 24	89	697
Plate or similar article	C. J. Ahrenfeldt	31,709	Oct. 24	89	697
Plate. Oyster	F. E. Burley	31,886	Nov. 28	89	1851
Pliers. Member for pair of	G. C. Prickett	31,085	June 27	87	2311
Pliers. Member for pair of	L. P. Smith	30,237	Feb. 21	86	1315
Plow-beam	S. R. Sargent	30,735	May 9	87	1065
Plow-handle	J. W. Brown	31,596	Oct. 3	89	182
Plow potato-digger attachment	P. A. Stark	30,282	Feb. 28	86	1490
Plow-upright	H. H. Straughan	30,784	May 16	87	1221
Plows. Reversible cutting edge for	W. L. Beall	31,864	Nov. 21	89	1660
Plowshare	J. H. Kegans	31,490	Sept. 5	88	1892
Plowshare	C. La Dow	30,848	May 23	87	1388
Plowshare-pattern	C. La Dow	31,943	Dec. 5	89	2059
Plumber's tool	F. J. Lieber	30,486	Apr. 4	87	170
Pocket-book	W. H. Thurber	30,831	May 23	87	1386
Porte-monnaie or card-case	O. A. Lehman	30,170	Feb. 14	86	1156
Pot	C. J. Ahrenfeldt	30,523	Apr. 11	87	349
Pouring-guide	L. Melcher	30,235	Feb. 21	86	1315
Press plate. Hydraulic	A. Euston	30,790	May 16	87	1222
Print. Mezzotint	C. S. Harris	30,329	Mar. 14	86	1796
Printing-device frame for paper-rol holders	J. L. Bangley	30,423	Mar. 28	86	2161
Printing-machine doctor-blade	G. Udell	29,922	Jan. 3	86	171
Prism-plate	J. G. Brown	31,811	Nov. 7	89	1135
Prism-plate	S. Lubin and S Dryfoos	30,471	Apr. 4	87	168
Protector	W. C. Halleck	31,271	July 18	88	541
Protector and fuse holder and block	F. Greer	30,634	Apr. 25	87	688
Puff-boxes, &c. Cover for	T. W. Foster	31,120	July 4	88	178
Pulley	M. F. Williams	30,347	Mar. 14	86	1799
Pulley	M. F. Williams	30,348	Mar. 14	86	1799
Pulley frame. Window	D. S. Stimson	30,855	May 23	87	1389
Pulley-segment	T. Corscaden	30,596	Apr. 18	87	509
Pump air-chamber	E. M. Coryell	31,080	June 27	87	2310
Pump-casing	F. T. Radecke	31,533	Sept. 19	88	2235
Pump-casing	J. B. Rhodes	31,561	Sept. 26	88	2405
Pump-frame	R. De Puy	30,578	Apr. 18	87	506
Pump-frame	P. A. Myers	30,103	Jan. 31	86	789
Pump-frame	P. A. Myers	31,326	Aug. 1	88	940
Pump-frame. Duplex	C. C. Worthington	30,497	Apr. 4	87	172
Pump frame. Duplex steam	C. C. Worthington	30,496	Apr. 4	87	172
Pump funnel. Chain	D. D. Eldridge	31,639	Oct. 10	89	344
Pump head. Syrup	A. C. Fong	31,996	Dec. 19	89	2452
Pump housing. Double-acting triplex	H. W. Kimes	30,636	Apr. 25	87	689
Pumping-power base	K. Chickering	30,698	May 2	87	884

Alphabetical list of designs—Continued.

Design.	Name.	No.	Date.	Official Gazette. Vol.	Page.
Punch die or cutter	O. Sohni	30,236	Feb. 21	86	1315
Puzzle-board	T. A. Kughler	32,049	Dec. 26	89	2646
Puzzle-board	A. B. McNeil	30,211	Feb. 14	86	1163
Puzzle-board	J. M. Montgomery	31,723	Oct. 24	89	700
Puzzle-board	G. Schultze	31,613	Oct. 3	89	185
Puzzle-board	J. H. White	31,848	Nov. 14	89	1336
Puzzle-box	W. H. Denson	30,073	Jan. 24	86	627
Puzzle box or case	F. C. Hoffman	31,264	July 18	88	539
Puzzle box or case	E. M. Scheffbuch	30,159	Feb. 7	86	991
Puzzle box or case	E. Schneider	30,825	May 16	87	1228
Puzzle box or case	F. R. Skinner	31,265	July 18	88	539
Quilting-frame hanger	J. A. Hogue	31,976	Dec. 12	89	2253
Rack for inkstands, &c	U. D. Eddy	30,359	Mar. 21	86	1974
Rack. Hall-	E. P. Kingsbery	32,043	Dec. 26	89	2645
Radiator	J. J. Blackmore	31,809	Nov. 7	89	1135
Radiator	B. Edgar	31,046	June 20	87	2110
Radiator	E. C. Ross	32,040	Dec. 26	89	2644
Radiator	C. F. Walther	31,950	Dec. 5	89	2061
Radiator-section	S. B. Waters	29,978	Jan. 10	86	335
Rail	J. P. Johnson	30,958	June 6	87	1774
Rail-bond	W. B. Cleveland	31,373	Aug. 8	88	1148
Rail-bond	C. J. Mayer	32,019	Dec. 19	89	2455
Rail-bond	C. J. Mayer	32,020	Dec. 19	89	2455
Rail-bond	C. J. Mayer	32,021	Dec. 19	89	2456
Rail-bond	C. J. Mayer	32,022	Dec. 19	89	2456
Rail-brace and tie-plate	J. B. Walker	31,413	Aug. 15	88	1326
Rail-joint plate	S. Crouse	31,686	Oct. 17	89	512
Railway-chair	W. C. Patterson and A. J. Flynn	31,638	Oct. 10	89	344
Railway curves. Guard-rail for street-	M. D. Pratt	30,792	May 16	87	1222
Railway girder-rails. Girder connection for street-	B. G. Braine	30,419	Mar. 28	86	2160
Railway-rail	S. C. Laney	31,249	July 18	88	537
Railway-rail	H. B. Nichols and G. B. Taylor	30,910	May 30	87	1598
Railway-rail	E. J. Waelty	30,911	May 30	87	1598
Railway-rail cushion-plate	J. H. Robertson	30,370	Mar. 21	86	1975
Railway-tie. Metallic	A. W. Taft	30,490	Apr. 4	87	171
Range	A. W. Walker and B. M. Shaw	31,607	Oct. 3	89	183
Range	A. W. Walker and B. M. Shaw	31,608	Oct. 3	89	184
Range and kitchen-cabinet	W. C. Skinner	31,557	Sept. 26	88	2404
Range-grate	G. Pears	31,949	Dec. 5	89	2060
Range or cooking-stove	G. E. Wilbur	32,010	Dec. 19	89	2454
Range or cooking-stove base	G. E. Wilbur	32,008	Dec. 19	89	2453
Rasp	G. E. Pegg	30,996	June 13	87	1949
Razor-blade	A. Graef	31,625	Oct. 10	89	342
Razor-handle, &c	M. C. Lefferts	30,588	Apr. 18	87	508
Razor-handle, &c	M. C. Lefferts	30,589	Apr. 18	87	508
Receptacle	C. R. Harris	30,763	May 16	87	1218
Receptacle	H. A. Shipman and T. Morcom	31,819	Nov. 14	89	1332
Reel-frame	A. G. N. Vermilya	30,063	Jan. 24	86	625
Reflector. Lantern-	F. Rhind	31,587	Oct. 3	89	180
Reflector. Lantern-	F. Rhind	31,588	Oct. 3	89	180
Refrigerator	W. M. Whitman	30,141	Feb. 7	86	987
Refrigerator	F. A. Wilke	31,203	July 11	88	379
Refrigerator	F. N. Young and F. E. Thompson	31,417	Aug. 15	88	1327
Register-box	E. C. Fox	31,239	July 18	88	535
Register or ventilator plate	T. J. A. Vanderloo	31,446	Aug. 22	88	1520
Registers, &c. Face-plate for	A. W. Ullberg	30,568	Apr. 18	87	504
Registers, &c. Face-plate for	A. W. Ullberg	30,569	Apr. 18	87	504
Rein-guard	A. C. Sumner	31,470	Aug. 29	88	1696
Rein-support	J. O. Atkins	31,643	Oct. 10	89	345
Retracker	P. Delany	31,443	Aug 22	88	1519
Ribbon-case	F. H. Maurer	31,482	Aug. 29	88	1699
Ribbon-spool rack	H. B. Moore	31,291	July 25	88	711
Ripper. Hand-	E. C. Phillips	31,175	July 11	88	374
Riveter member	J. W. Thompson	31,139	July 4	88	181
Riverters. Frame for hydraulic	W. H. Derbyshire	30,997	June 13	87	1949
Rock-crusher frame	E. C. Bacon	31,790	Nov. 7	89	1132
Roofing-plate clamp. Sheet-metal	F. G. Caldwell	30,630	Apr. 25	87	688
Roofing-plate clamp. Sheet-metal	F. G. Caldwell	31,086	June 27	87	2311
Root-puller frame	R. F. Wall and F. Lemieux	30,200	Feb. 14	86	1161
Rope-tightener	P. L. Warne	30,374	Mar. 21	86	1976
Rubber-dam clamp	E. N. La Veine	30,883	May 30	87	1595
Rubber elbow	W. E. Byrnes	29,983	Jan. 10	86	336
Rubber gasket	H. K. Gilbert	30,405	Mar. 28	86	2158
Rubber heel	H. C. Peters	30,641	Apr. 25	87	690
Rubber-heel heel-plate	E. F. Ayres and T. H. Foster	31,701	Oct. 17	89	515
Rubber scraping-knife	L. F. Booker	30,404	Mar. 28	86	2158
Rubber-sponge cushion	R. A. Stewart	30,122	Jan. 31	86	793
Rug	J. Merry	30,383	Mar. 21	86	1978
Rug	J. Merry	30,384	Mar. 21	86	1978
Rug	J. Merry	30,510	Apr. 4	87	174
Rug	J. Merry	30,584	Apr. 18	87	507
Rug	J. Merry	30,828	May 16	87	1228
Ruler	T. Williams	31,390	Aug. 15	88	1322
Sad-iron	M. Sweeney	31,245	July 18	88	536
Sad-iron	G. M. Urie	30,336	Mar. 14	86	1797
Sad-iron cross-bar	O. W. Sabold	30,961	June 6	87	1774
Sad-iron holder	G. W. Clewell	30,013	Jan. 17	86	480
Saddle-base	B. F. Wheeler	29,989	Jan. 10	86	337
Saddle-pad	T. Padgitt	31,409	Aug. 15	88	1325
Saddletree	C. W. Miller	30,276	Feb. 28	86	1489
Saddle-trough. Harness	E. Liggins	31,097	June 27	87	2313
Safety-pin	J. V. Washburne	31,432	Aug. 22	88	1517
Salt and pepper cruet	G. Barnhart	29,966	Jan. 10	86	333
Sand-band	W. M. Farr	30,368	Mar. 21	86	1975
Sanitary fixture. Ventilated	E. C. Stover	31,090	June 27	87	2312
Sash-balance housing	A. D. Cunny	30,413	Mar. 28	86	2159

Alphabetical list of designs—Continued.

Design.	Name.	No.	Date.	Official Gazette. Vol.	Page.
Sash-pulley case	G. A. Dicker	30,055	Jan. 24	86	624
Saw-blade	C. E. Guenther and P. Murray	31,155	July 4	88	184
Saw blade	C. McDonner	31,362	Aug. 8	88	1146
Saw-blade	D. McEachern	31,308	Aug. 1	88	938
Saw-patch	O B. Bolton	31,716	Oct. 24	89	699
Scale	F. Taylor	30,938	June 6	87	1770
Scale	F. Taylor	30,939	June 6	87	1771
Scale	F. Taylor	30,987	June 13	87	1948
Scale-base	J. W. Culmer	31,855	Nov. 21	89	1658
Scale base-frame	I. C. Koehne	31,922	Dec. 5	89	2055
Scale base member	O. O Ozias	31,924	Dec. 5	89	2056
Scale-beam	L. P. Halladay	31,603	Oct. 3	89	183
Scale-dial	W. N. Pelouze	30,399	Mar. 28	86	2157
Scale face-plate	G. B. Hoyt	30,724	May 9	87	1063
Scale face-plate	O. O. Ozias	31,927	Dec. 5	89	2056
Scale-frame	J. W. Culmer	30,940	June 6	87	1771
Scale-frame	J. W. Culmer	30,986	June 13	87	1948
Scale-frame	O. O. Ozias	31,923	Dec. 5	89	2055
Scale-frame	O. O. Ozias	32,007	Dec. 19	89	2453
Scale-frame member	J. M. Triner	30,340	Mar. 14	86	1798
Scale frame. Spring-	L. C. Myers	30,050	Jan. 24	86	623
Scale-lever	I. C. Koehne	30,886	May 30	87	1595
Scale-lever	I. C. Koehne	30,887	May 30	87	1595
Scale-plate	S. H. Cowles	30,470	Apr. 4	87	168
Scale-platform	O. O. Ozias	31,926	Dec. 5	89	2056
Scale-poise	L. P. Halladay	31,506	Sept. 12	88	2060
Scale-support	O. O. Ozias	32,006	Dec. 19	89	2453
Scale supporting member	O. O. Ozias	31,925	Dec. 5	89	2056
Scales. Indicator-lever for letter-	W. Eschemann	31,582	Oct. 3	89	179
Scoop	W. T. Seble	30,292	Feb 28	86	1492
Scoop. Wire	W. O. Smith	30,890	May 30	87	1596
Scraper	S. H. Merrill	30,291	Feb. 28	86	1492
Scraper. Cotton-	Z. N. T. Milirons	30,241	Feb. 21	86	1316
Scraper. Pan or kettle	J. M. Smith	31,935	Dec. 5	89	2058
Scraper. Sink-	E. Ladouceur and N. E. H. Ferland	31,936	Dec. 5	89	2058
Screw-cap	C. M. Higgins	30,669	May 2	87	879
Screw-driver handle	C. Jackson	32,013	Dec. 19	89	2454
Scythe	C. C. Brooks	31,153	July 4	88	183
Sealing device	H. R. Myers	30,776	May 16	87	1220
Separator	P. P. Russ	30,789	May 16	87	1222
Sewer-trap	J. Barrett	31,637	Oct. 10	89	344
Sewing-card perforators. Frame for	J. R. Orwig	30,240	Feb. 21	86	1316
Sewing-machine base-plate extension	F. G. Hogland	31,594	Oct. 3	89	181
Sewing-machine head	S. A. Stone	30,595	Apr. 18	87	508
Shade and curtain-pole fixture. Window-	H. E. Wright	30,995	June 13	87	1949
Shade-bracket	G. W. Rush	30,099	Jan. 31	86	789
Shade bracket. Window-	J. B. Gill	31,889	Nov. 28	89	1852
Shade-holder	W. C. Homan	30,100	Jan. 31	86	789
Shaft-iron	F. L. Lowe	31,149	July 4	88	183
Shaft-supporter	F. T. Watson	30,034	Jan. 17	86	484
Sheaf-holder	L. Fritts	31,472	Aug. 29	88	1697
Shed. Cattle-	W. Heaton	31,252	July 18	88	537
Shelf. Hanging	E. Andreen	30,064	Jan. 24	86	625
Shell. Dovetail	B. W. Burdick	30,778	May 16	87	1220
Shell. Hinge-pivot	B. W. Burdick	30,779	May 16	87	1220
Shell. Screw-	B. W. Burdick	30,780	May 16	87	1220
Shell. Swing-cover-catch	B. W. Burdick	30,781	May 16	87	1221
Shingle-gage	J. E. Morgan	31,796	Nov. 7	89	1132
Shirt-waist fastener	J. L. Briggs	31,431	Aug. 22	88	1517
Shirt-waists. Shield or protector for ladies'	A. L. Stewart	29,952	Jan. 3	86	176
Shoe	N. C. Bohr	31,914	Nov. 28	89	1856
Shoe	L. K. Morse	31,769	Oct. 31	89	912
Shoe	J. H. Romsey	30,925	May 30	87	1601
Shoe-upper	L. A. Roberts	30,382	Mar. 21	86	1977
Shovel	M. R. Stephenson	31,094	June 27	87	2313
Shovel. Tamping-	C. L. Wheeler	31,473	Aug. 29	88	1697
Show-case	E. S. Judkins	30,579	Apr. 18	87	506
Show-case	J. T. Robin	30,889	May 30	87	1595
Show-case	B. Weinberg	31,758	Oct. 31	89	910
Show-case wheel	H. A. Kinard	30,740	May 9	87	1066
Shuttle	O. W. Schaum	30,623	Apr. 25	87	687
Sifter. Ash-	W. Branagan	30,737	May 9	87	1066
Sign character	J. Caesar	31,262	July 18	88	539
Sign-plate	G. A. Kruttschnitt	30,626	Apr. 25	87	687
Sign-plate	G. A. Kruttschnitt	30,627	Apr. 25	87	687
Sign-plate, &c	G. A. Kruttschnitt	30,773	May 16	87	1220
Sign-plate, &c	G. A. Kruttschnitt	30,774	May 16	87	1220
Sign-plate	J. Marcus	31,832	Nov. 14	89	1333
Sign-plate or similar article	G. A. Kruttschnitt	31,206	July 11	88	379
Sign-plate or similar article	G. A. Kruttschnitt	31,207	July 11	88	379
Sign-plate or similar article	G. A. Kruttschnitt	31,628	Oct. 10	89	342
Sign-plate or similar article	G. A. Kruttschnitt	31,629	Oct. 10	89	342
Sink guard or strainer	E. J. Freeman	30,746	May 9	87	1068
Sink or sewer trap casing	A. C. Freed	30,800	May 16	87	1224
Siphon-jet closet	A. Plantier	31,048	June 20	87	2111
Skate	A. Foilstad	31,052	June 20	87	2111
Skewback	F. Selby	30,565	Apr. 18	87	503
Skirt and shoe protector	G. S. Hensel	30,704	May 2	87	885
Skirt and shoe protector	G. S. Hensel	30,747	May 9	87	1068
Skirt and shoe protector	G. S. Hensel	31,913	Nov. 28	89	1855
Skirt and waist supporter	L. A. Graham	31,383	Aug. 8	88	1150
Skirt and waist supporter	L. A. Graham	31,384	Aug. 8	88	1150
Skirt and waist supporter	L. A. Graham	31,385	Aug. 8	88	1150
Skirt and waist supporter	L. A. Graham	31,386	Aug. 8	88	1150
Skirt facing and binding	A. M. Weber	31,424	Aug. 15	88	1327
Skirt-protector	H. Haase	30,866	May 23	87	1391

Alphabetical list of designs—Continued.

Design.	Name.	No.	Date.	Official Gazette. Vol.	Page.
Skirt-protector	G. S. Hensel	30,300	Feb. 28	86	1493
Skirt-protector	G. S. Hensel	31,164	July 4	88	188
Skirt-protector	G. S. Hensel	31,568	Sept. 26	88	2405
Skirt-protector	G. S. Hensel	31,569	Sept. 26	88	2407
Skirt-protector	L. F. Howe	30,920	May 30	87	1600
Skirt-protector	J. Loeb	30,124	Jan. 31	86	793
Skirt-protector	L. Mabee	31,272	July 18	88	541
Skirt-supporting attachment for belts and corsets	S. A. Moulton and L. M. Jones	30,125	Jan. 31	86	793
Sleeve-blank	R. Phillips	31,055	June 20	87	2112
Sleeve-holder	D. J. McAleese and I. Knox	30,864	May 23	87	1390
Sleigh. Speeding	E. C. Olcott	30,272	Feb. 28	86	1489
Slicing-machine knife	J. R. Hillman	31,752	Oct. 31	89	910
Slipper	H. P. Kingsland	31,422	Aug. 15	88	1328
Slug. Protective	B. F. Mayo	30,835	May 23	87	1386
Slug. Protective	B. F. Mayo	30,836	May 23	87	1386
Slug. Protective	B. F. Mayo	30,837	May 23	87	1387
Slug. Protective	B. F. Mayo	30,838	May 23	87	1387
Slug. Protective	B. F. Mayo	30,839	May 23	87	1387
Slug. Protective	B. F. Mayo	30,840	May 23	87	1387
Slug. Protective	B. F. Mayo	30,841	May 23	87	1387
Slug. Protective	B. F. Mayo	30,842	May 23	87	1387
Slug. Protective	B. F. Mayo	30,843	May 23	87	1387
Snap-gage	J. C. Glas	30,625	Apr. 25	87	687
Snow-guard. Roof	E. W. Clark	30,788	May 16	87	1222
Sole	S. Borchardt	30,352	Mar. 14	86	1800
Sole	H. O'Sullivan	31,381	Aug. 8	88	1150
Sole. Outer	J. W. Fuller	31,294	July 25	88	712
Sole. Shoe	C. H. Wiley	30,973	June 6	87	1776
Specula. Supporting-fork for vaginal	C. J. Pilling	31,522	Sept. 19	88	2233
Speculars. Supporting member for vaginal retracting	C. J. Pilling	31,396	Aug. 15	88	1323
Speculum member	T. H. Bly	31,278	July 25	88	709
Speculum member	T. A. De Vilbiss	31,840	Nov. 14	89	1335
Spigot and bung-borer	B. A. Page	30,195	Feb. 14	86	1160
Spike-extracting implement	W. P. Thomson	30,111	Jan. 31	86	791
Spindle-lock	H. E. Hughes	30,793	May 16	87	1223
Spittoon-bowl. Fountain	A. W. Browne	30,744	May 9	87	1067
Spoke-socket member	J. T. Watkins	29,987	Jan. 10	86	336
Spoke. Vehicle-wheel	C. A. Hussey	30,729	May 9	87	1064
Spoke. Wheel	C. E. Spicer	31,447	Aug. 22	88	1520
Spool-holder	J. B. Rearick	30,263	Feb. 28	86	1487
Spool-thread holder	H. Straussberg	30,654	May 2	87	877
Spoon	V. Bogaert	31,779	Nov. 7	89	1130
Spoon	H. H. Evertsen	30,715	May 9	87	1062
Spoon	W. A. Jameson	30,649	May 2	87	876
Spoon	W. McAusland	31,461	Aug. 29	88	1695
Spoon	E. A. Muth	30,650	May 2	87	876
Spoon	W. A. Rayment	31,459	Aug. 29	88	1695
Spoon	W. A. Rayment	31,460	Aug. 29	88	1695
Spoon	J. E. Schmitt	30,651	May 2	87	876
Spoon, &c.	B. Y. Tiffany	31,345	Aug. 8	88	1143
Spoon, &c.	B. Y. Tiffany	31,346	Aug. 8	88	1143
Spoon	C. L. Watson	31,732	Oct. 31	89	906
Spoon-holder	J. L. McKay	31,665	Oct. 17	89	509
Spoon or fork handle	F. Habensack	30,875	May 30	87	1593
Spoon or fork handle	S. J. Large	31,428	Aug. 22	88	1517
Spoon or similar article	A. Miller	30,128	Feb. 7	86	985
Spoon. Souvenir	F. M. Van Etten	31,117	July 4	88	178
Spoons, forks, &c. Handle for	W. C. Codman	30,168	Feb. 14	86	1155
Spoons, forks, &c. Handle for	H. H. Evertsen	30,716	May 9	87	1062
Spoons, forks, &c. Handle for	L. R. Horton	31,517	Sept. 19	88	2232
Spoons, forks, &c. Handle for	W. A. Jameson	30,454	Apr. 4	87	165
Spoons, forks, &c. Handle for	J. F. Laurin	30,169	Feb. 14	86	1156
Spoons, forks, &c. Handle for	S. H. Manchester	30,306	Mar. 7	86	1627
Spoons, forks, &c. Handle for	S. Stohr	30,391	Mar. 28	86	2156
Spoons, forks, &c. Handle for	H. L. Wallace	31,574	Oct. 3	89	178
Spoons, forks, knives, &c. Handle for	H. L. Wallace	31,224	July 18	88	532
Spoons, &c. Handle for	E. W. Campbell	31,223	July 18	88	532
Spoons, &c. Handle for	W. C. Codman	31,069	June 27	87	2309
Spoons, &c. Handle for	W. C. Codman	31,993	Dec. 19	89	2451
Spoons, &c. Handle for	E. Crees and C. S. Court	31,347	Aug. 8	88	1143
Spoons, &c. Handle for	F. G. Holmes	31,068	June 27	87	2309
Spoons, &c. Handle for	J. W. Mealy	31,664	Oct. 17	89	509
Spoons, &c. Handle for	F. R. Roberts	30,043	Jan. 24	86	622
Spoons, &c. Handle for	A. G. Rogers	31,116	July 4	88	177
Spoons, &c. Handle for	G. W. Shiebler	30,874	May 30	87	1593
Spoons, &c. Handle for	S. Stohr	31,516	Sept. 19	88	2232
Spoons, &c. Handle for	H. L. Wallace	31,733	Oct. 31	89	906
Spout. Sap	J. F. Warner	31,860	Nov. 21	89	1659
Spray-blower body	A. R. Pritchard	30,531	Apr. 11	87	350
Sprayer-body	A. J Brummeler	31,144	July 4	88	182
Sprayer-body	I. F. Gordon	30,360	Mar. 21	86	1974
Sprayer-body	I. F. Gordon	31,679	Oct. 17	89	511
Sprayer-body	A. R Pritchard	30,529	Apr. 11	87	350
Sprayer-body	A. R. Pritchard	30,530	Apr. 11	87	350
Sprayer-body	D. B. Smith	29,973	Jan. 10	86	334
Sprayer-body	D. B. Smith	30,024	Jan. 17	86	482
Sprayer-body	D. B Smith	30,025	Jan. 17	86	482
Sprayer-body	D. B Smith	30,026	Jan. 17	86	482
Sprayer-body	D. B Smith	30,027	Jan. 17	86	482
Sprayer-body	D. B. Smith	30,184	Feb. 14	86	1158
Sprayer-body	D. B. Smith	30,293	Feb. 28	86	1492
Sprinkler	J. H. Rhodes	31,485	Sept. 5	88	1891
Sprinkler. Lawn	E. McCoy	31,549	Sept. 26	88	2403
Sprinkler stand. Lawn	J. A. Watson	30,543	Apr. 11	87	352
Sprocket or similar article	W. H. Smith	31,365	Aug. 8	88	1146
Stair-corner guard	F. D. Goodwin	30,252	Feb. 21	86	1318

Alphabetical list of designs—Continued.

Design.	Name.	No.	Date.	Official Gazette. Vol.	Page.
Stamp cushion. Hand-	J. A. Heany	30,884	May 30	87	1595
Stamp. Hand-	M. A. Jaques	31,743	Oct. 31	89	908
Stamps. Cushion for hand-	J. A. Heany	31,276	July 25	88	709
Staple	J. La Prelle	30,896	May 30	87	1596
Staple-puller and wire-stretcher	H. F. Austin	30,322	Mar. 7	86	1629
Staple-pulling implement	W. E. Lanning	30,323	Mar. 7	86	1629
Steam-cylinder casing and cradle. Duplex	C. C. Worthington	30,498	Apr. 4	87	172
Steam-table	C. R. Holden	31,757	Oct. 31	89	910
Steam-trap casing	E. E. Gold	31,444	Aug. 22	88	1519
Stock	J. A. Finn	31,659	Oct. 10	89	348
Stock	A. Little	31,021	June 13	87	1953
Stocking	O. Osborne	30,074	Jan. 24	86	627
Stone-dressing-tool bandle	J. Dobbie	31,283	July 25	88	710
Stool	O. Balogh	31,759	Oct. 31	89	911
Stool	F. F. Bilhoefer	31,697	Oct. 17	89	514
Stool. Foot-	F. J. Hegman	30,192	Feb. 14	86	1159
Stool. Foot-	F. J. Hegman	30,193	Feb. 14	86	1159
Stool. Foot-	F. L. Underwood	31,653	Oct. 10	89	346
Stopper or nozzle	B. H. Alvey	31,128	July 4	88	179
Stove	I. Brooke	30,639	Apr. 25	87	689
Stove	G. W. Cope and W. L. Bertram	32,041	Dec. 26	89	2644
Stove	T. S. Evans	31,558	Sept. 26	88	2405
Stove	E. G. Germer	30,908	May 30	87	1598
Stove	M. P. Hynson	30,142	Feb. 7	86	987
Stove	T. R. Kennedy and E. J. King	31,605	Oct. 3	89	183
Stove	G. W. Kohlmetz	31,012	June 13	87	1952
Stove	F. A. Magee	31,512	Sept. 12	88	2062
Stove	F. A. Magee	31,871	Nov. 21	89	1661
Stove	A. Obnemus	31,872	Nov. 21	89	1661
Stove	A. Obnemus	31,873	Nov. 21	89	1661
Stove	A. Obnemus	31,874	Nov. 21	89	1662
Stove combustion-chamber	J. Dwyer and J. H. Lane	31,648	Oct. 10	89	347
Stove. Cooking-	G. Alig	31,649	Oct. 10	89	346
Stove. Cooking-	E. J. King and T. R. Kennedy	30,742	May 9	87	1067
Stove. Cooking-	R. Thiem	31,095	June 27	87	2313
Stove. Cooking-	J. G. Yeager	30,287	Feb. 28	86	1491
Stove fender or rail	F. E. Lee	30,507	Apr. 4	87	174
Stove frame. Gas-	F. P. Gillespie	31,604	Oct. 3	89	183
Stove. Gas-	J. H. Diamond	31,415	Aug. 15	88	1326
Stove. Gas-	F. P. Gillespie	31,537	Sept. 19	88	2236
Stove. Gas-	M. Griswold, Jr	31,721	Oct. 24	89	699
Stove. Gas heating-	L. Kahn	30,060	Jan. 24	86	625
Stove-grate	D. D. Long	30,597	Apr. 18	87	509
Stove grate. Oil or lamp	A. Babinski	30,857	May 23	87	1389
Stove. Heating-	A. K. Beckwith	31,201	July 11	88	378
Stove. Heating-	A. K. Beckwith	31,202	July 11	88	378
Stove. Heating-	G. W. Cope and W. L. Bertram	30,016	Jan. 17	86	481
Stove. Heating-	G. W. Cope and W. L. Bertram	30,061	Jan. 24	86	625
Stove. Heating-	H. P. Cope	30,508	Apr. 4	87	174
Stove. Heating-	M. Griswold, Jr	31,720	Oct. 24	89	699
Stove. Heating-	C. H. Hoffstetter	31,511	Sept. 12	88	2061
Stove. Heating-	E. H. Huenefeld	30,963	June 6	87	1775
Stove. Heating-	E. H. Huenefeld	31,013	June 13	87	1952
Stove. Heating-	E. H. Huenefeld	31,014	June 13	87	1952
Stove. Heating-	E. H. Huenefeld	31,015	June 13	87	1952
Stove-hood	E. C. Rinner	30,802	May 16	87	1224
Stove-leg	J. W. Jones	31,376	Aug. 8	88	1149
Stove magazine-section	J. Dwyer and J. H. Lane	31,247	July 18	88	536
Stove. Oil-	W. H. Wilder	30,567	Apr. 18	87	504
Stove or range	H. W. Beattie	31,694	Oct. 17	89	513
Stove or range	S. Boal	30,188	Feb. 14	86	1159
Stove or range	T. R. Kennedy and E. J. King	31,606	Oct. 3	89	183
Stove or range	W. L. Mersfelder	31,414	Aug. 15	88	1326
Stove or range back	G. E. Wilbur	32,009	Dec. 19	89	2454
Stove or range. Cooking	A. K. Beckwith	31,200	July 11	88	378
Stove or range. Cooking	G. W. Cope and W. L. Bertram	31,478	Aug. 29	88	1698
Stove or range. Cooking	J. L. Gobeille	31,808	Nov. 7	89	1135
Stove or range water-front	A. B. Clunies	30,803	May 16	87	1224
Stovepipe-drum	L. S. Irgens	31,870	Nov. 21	89	1661
Stovepipe-elbow clamping-band	J. J. Werner	31,199	July 11	88	378
Stove ventilating-cabinet. Gas or gasolene	J. C. Meister and J. A. Cochran	30,547	Apr. 11	87	352
Stove water-grate. Cooking-	J. P. Spencer	31,011	June 13	87	1951
Stoves or ranges. Upper shelf-section for	H. W. Beattie	31,693	Oct. 17	89	513
Stud. Fastener-	S. F. Paul	30,612	Apr. 25	87	685
Stud. Lacing-	C. M. Beard	30,078	Jan. 31	86	785
Supporting-base	W. W. Gallimore	30,777	May 16	87	1220
Supporting-leg	W. C. Peet	31,893	Nov. 28	89	1852
Suppository	W. C. Lantz	31,133	July 4	88	180
Suppository	C. L. Trusler	30,699	May 2	87	884
Surgical instruments. Suction-cup for	E. D. Saint Cyr, Jr	30,951	June 6	87	1773
Suspender-end	A. Coleman	31,728	Oct. 24	89	701
Suspender-end	A. Coleman	31,773	Oct. 31	89	913
Suspenders. Back-plate for	A. J. Jackson	30,718	May 9	87	1063
Switch-blade	G. C. Herz	31,797	Nov. 7	89	1133
Switch-button. Snap	C. G. Perkins	31,410	Aug. 15	88	1325
Switch-jaw. Electric	A. B. Herrick	30,152	Feb. 7	86	990
Syringe	C. J. Davol	31,279	July 25	88	709
Syringe	C. W. Meinecke	31,033	June 20	87	2109
Syringe	C. W. Meinecke	31,034	June 20	87	2109
Syringe	E. T. Pearl	30,023	Jan. 17	86	482
Syringe-nozzle	R. E. Conlin	31,465	Aug. 29	88	1696
Syringe-nozzle	C. E. Gray	30,313	Mar. 7	86	1628
Syringe-nozzle	J. T. Wetherald	31,035	June 20	87	2109
Syringe-nozzle	J. T. Wetherald	31,231	July 18	88	533
Syringe nozzle-tip	E. L. Day	29,972	Jan. 10	86	334
Table	F. Stewart	31,696	Oct. 17	89	514

Alphabetical list of designs—Continued.

Design.	Name.	No.	Date.	Official Gazette. Vol.	Page.
Table. Kitchen-	D. F. Holt	31,722	Oct. 24	89	700
Table. Kitchen-	C. P. McDougall	30,743	May 9	87	1067
Table-top	A. M. Stover	31,157	July 4	88	184
Tack. Lasting-	J. F. Ames	31,841	Nov. 14	89	1335
Tack-lifter and hammer	F. Weihenmayer	30,480	Apr. 4	87	169
Tack-puller jaw	G. W. Harris	31,036	June 20	87	2109
Tag	J. C. Wells	30,254	Feb. 21	86	1318
Tail-cover	W. McClellan	31,285	July 25	88	710
Tank-floor	W. E. Winn	30,373	Mar. 21	86	1976
Tap and drill. Combined	F. F. Prentiss	30,485	Apr. 4	87	170
Tea-cup	W. H. Lopp	31,967	Dec. 12	89	2251
Telephone-receiver cap	H. R. Cool	31,187	July 11	88	376
Telephones, &c. Base and casing for portable	B. Le Vino	30,794	May 16	87	1223
Textile machinery. Lifting-roll holder for	J. T. Meats and W. Ashworth	31,865	Nov. 21	89	1660
Thermometer-case	J. B. Gabe	30,225	Feb. 21	86	1313
Thill-coupling spring	W. Horning	30,203	Feb. 14	86	1161
Thimble. Sewing-	C. C. Clancy	31,520	Sept. 19	88	2233
Thread-guide	J. Brown	29,923	Jan. 3	86	171
Thread holder. Spool-	W. H. Garland	31,300	Aug. 1	88	937
Ticket-blank	F. Kronenberger	31,378	Aug. 8	88	1149
Tie-plate	W. Goldie	30,852	May 23	87	1388
Tie-plate	W. Goldie	31,137	July 4	88	181
Tile	P. F. Lenhart	31,610	Oct. 3	89	184
Tile	J. Mark	31,209	July 11	88	380
Tile	E. S. Thomas	30,072	Jan. 24	86	627
Tile	E. S. Thomas	31,450	Aug. 22	88	1521
Tile. Sewer-	D. and J. D. George	31,891	Nov. 28	89	1852
Tire	C. K. Welch	31,644	Oct. 10	89	345
Tire	C. K. Welch	31,645	Oct. 10	89	345
Tire. Elastic	R. Cowen	29,988	Jan. 10	86	336
Tire. Elastic vehicle-	G. B. Dryden	30,417	Mar. 28	86	2160
Tire plug. Pneumatic-	F. B. Parks	30,198	Feb. 14	86	1160
Tire protector. Bicycle-	K. W. Haak	30,037	Jan. 17	86	484
Tire-scraper	F. Rhind	30,036	Jan. 17	86	484
Tire tread. Pneumatic-	W. G. Huber	31,404	Aug. 15	88	1325
Tire-valve cap	G. H. F. Schrader	31,830	Nov. 14	89	1333
Tire. Vehicle-	S. T. Young	31,831	Nov. 14	89	1333
Tire. Vehicle-wheel	E. P. Kelly	31,250	July 18	88	537
Tire. Wheel-	J. A. Blaurock	30,583	Apr. 18	87	507
Tire. Wheel-	J. A. Blaurock	30,823	May 16	87	1227
Tire. Wheel-	F. W. Huestis	30,416	Mar. 28	86	2160
Tires. Interior securing-band for rubber	G. Meyer	32,037	Dec. 26	89	2644
Tobacco-package	G. Millhiser	30,662	May 2	87	878
Toilet-case	E. C. F. Dittmar	30,460	Apr. 4	87	166
Tongs. Member for pairs of	P. A. Malmberg	31,746	Oct. 31	89	909
Tool	W. W. Brownell	30,786	May 16	87	1221
Tool	D. M. Morgan	31,632	Oct. 10	89	343
Tool	H. Root	31,941	Dec. 5	89	2059
Tool-bag	M. M. Deem	31,901	Nov. 28	89	1854
Tool. Combination-	T. O. Rawlings	30,892	May 30	87	1596
Tool. Garden-	W. A. Liverpool	31,039	June 20	87	2109
Tool-handle	A. W. Johnston	31,825	Nov. 14	89	1333
Tool-handle	J. S. Pitner	30,407	Mar. 28	86	2158
Tool-handle socket	E. Malinoski	30,891	May 30	87	1596
Tool-head	J. Herfert	30,618	Apr. 25	87	686
Tool-holding block	M. Smith	30,321	Mar. 7	86	1629
Tool member	T. M. Francis and C. B. Griffith	31,487	Sept. 5	88	1891
Tool member. Combination-	J. C. Johnson	31,038	June 20	87	2109
Tooth powder and brush holder	C. A. Kirkwood	30,560	Apr. 18	87	502
Top	A. Seiler	31,017	June 13	87	1953
Top. Spinning-	J. Porter	31,655	Oct. 10	89	347
Towel-holder, &c	J. Schnarr	30,917	May 30	87	1599
Toy	M. McKinney	30,868	May 23	87	1391
Toy bank	D. M. Galor	32,048	Dec. 26	89	2646
Toy bank	A. C. Williams	30,076	Jan. 31	86	785
Toy car	H. T. Kingsbury	30,156	Feb. 7	86	990
Toy-car body	H. T. Kingsbury	30,377	Mar. 21	86	1976
Toy-car-body blank	H. T. Kingsbury	30,155	Feb. 7	86	990
Toy-car bottom plate	H. T. Kingsbury	30,157	Feb. 7	86	990
Toy-car bottom plate	H. T. Kingsbury	31,101	June 27	87	2313
Toy-car end blank	H. T. Kingsbury	31,103	June 27	87	2314
Toy-car roof	H. T. Kingsbury	31,420	Aug. 15	88	1327
Toy-car roof-blank	H. T. Kingsbury	31,099	June 27	87	2313
Toy-car side plate	H. T. Kingsbury	31,100	June 27	87	2313
Toy coal-car end plate	H. T. Kingsbury	31,102	June 27	87	2314
Toy top	A. E. Poteet	31,654	Oct. 10	89	347
Toy trolley-car frame	J. Schneider, Jr	30,494	Apr. 4	87	171
Trace-carrier	F. R. Engberg	30,484	Apr. 4	87	170
Trace-carrier	J. B. Gathright	31,004	June 13	87	1950
Trace-carrier frame	N. W. Bennett	30,277	Feb. 28	86	1490
Trace-fastener spring	S. Harbison	31,531	Sept. 19	88	2235
Trace-support	B. F. Erway	30,624	Apr. 25	87	687
Transformer-case	J. W. Packard	30,853	May 23	87	1388
Transformer-casing	W. S. Moody	30,151	Feb. 7	86	990
Tray	B. C. Bradley	30,435	Mar. 28	86	2163
Tricycle-wagon box-support	H. G. Fechtel	30,734	May 9	87	1065
Trimmer-cutter body. Rotary-	E. Childs	30,678	May 2	87	880
Trimming	M. Greenberg	31,332	Aug. 1	88	941
Trimming	J. E. Kirberg	30,748	May 9	87	1068
Trimming-cord. Ornamental	C. J. Ulmann	31,614	Oct. 3	89	185
Trolley-pole	H. W. Smith	30,548	Apr. 11	87	352
Trough. Feeding-	H. Jess and C. Christensen	32,018	Dec 19	89	2455
Trousers fastening-bar	A. J. Shipley	30,233	Feb. 21	86	1315
Truck-frame	C. B. Tripp	31,195	July 11	88	377
Truck. Hand-	H. G. Knowles	31,647	Oct. 10	89	345
Truck suspension-link. Car-	W. S. Adams	32,034	Dec. 26	89	2643

Alphabetical list of designs—Continued.

Design.	Name.	No.	Date.	Official Gazette. Vol.	Page.
Truss-hoop	E. H. Busch	30,094	Jan. 31	86	788
Truss-pad	W. Burt	30,861	May 23	87	1390
Tub	D. I. Eckerson	30,136	Feb. 7	86	986
Tub and washboard clamp	H. C. Lobeck	31,555	Sept. 26	88	2404
Tube. Collapsible	C. R. Zacharias	30,851	May 23	87	1388
Tube-expander	V. E. Rumbarger	32,014	Dec. 19	89	2454
Tubing	F. A. Wilmot	30,062	Jan. 24	86	625
Tug-fastener	V. M. Dixon	31,894	Nov. 28	89	1853
Tug member. Hame-	J. G. Haglock	31,469	Aug. 29	88	1696
Tunnel or similar casings. Channel-bar for	D. L. Hough	31,371	Aug. 8	88	1148
Type. Font of	J. F. Cumming	30,916	May 30	87	1599
Type. Font of	A. MacDonall	31,215	July 11	88	381
Type. Font of	J. W. Phinney	30,253	Feb. 21	86	1318
Type. Font of	J. W. Phinney	30,295	Feb. 28	86	1492
Type. Font of	J. W. Phinney	30,826	May 16	87	1228
Type. Font of printing-	J. H. Hutchison	31,216	July 11	88	381
Type, &c., in chases and frames. Female member for devices for locking forms of	M. E. Conn	31,260	July 18	88	539
Type, &c., in chases and frames. Male member for devices for locking forms of	M. E. Conn	31,261	July 18	88	539
Type-writer inking-ribbons. Hook for	J. McCarthy	30,834	May 23	87	1386
Type-writing machine ribbon-spool	E. J. Manning	31,675	Oct. 17	89	511
Umbrella-tip	R. P. Hull	31,240	July 18	88	535
Umbrellas, canes, &c. Holder for	J. P. McHugh	31,205	July 11	88	379
Upholstering-appliance cap	H. Voight	31,243	July 18	88	535
Valve-body	D. T. Kenney	31,715	Oct. 24	89	698
Valve. Check-	H. F Briggs and W. B. Brown	31,441	Aug. 22	88	1519
Valve-disk	J. H. Calahan	29,982	Jan. 10	86	336
Valve-motion lever for steam-engines	C. C. Worthington	30,280	Feb. 28	86	1490
Valve-stem	A. B. Jenkins	30,782	May 16	87	1221
Vapor-burner	A. E. Lytle	31,713	Oct. 24	89	698
Vapor-burner device	W. F. Price	31,246	July 18	88	536
Vapor-burner frame	C. V. Best	31,407	Aug. 15	88	1325
Vaporizing vessel	J. H. Valentine	30,880	May 30	87	1594
Vault-light	F. C. Soper	30,472	Apr. 4	87	168
Vegetable-cutter blade or knife	C. A. Hill	30,366	Mar. 21	86	1975
Vehicle-body	U. Smith	30,551	Apr. 11	87	353
Vehicle-body	E. A. Sperry	31,804	Nov. 7	89	1134
Vehicle body and top	F. C. Morton	31,375	Aug. 8	88	1148
Vehicle body-loop	H. A. Moyer	30,418	Mar. 28	86	2160
Vehicle bolster-plate	M. L. Senderling	30,324	Mar. 7	86	1629
Vebicle bolster-stake	T. G. Mandt	30,369	Mar. 21	86	1975
Vehicle-frame	F. E. and C. B. Grout	31,803	Nov. 7	89	1134
Vehicle-frame	H. P. Maxim and H. M. Pope	31,449	Aug. 22	88	1520
Vehicle frame. Motor-	W. O. Worth	31,867	Nov. 21	89	1660
Vehicle frame. Motor-	W. O. Worth	31,982	Dec. 12	89	2254
Vehicle-frames. Gearing-cover for	M. C. Johnson	31,321	Aug. 1	88	940
Vehicle-frames. Gearing-cover for	M. C. Johnson	31,322	Aug. 1	88	940
Vehicle-frames. Gearing-cover for	M. C. Johnson	31,323	Aug. 1	88	940
Vehicle-frames. Gearing-cover for	M. C. Johnson	31,324	Aug. 1	88	940
Vehicle-frames. Gearing-cover for	M. C. Johnson	31,325	Aug. 1	88	940
Vehicle motor-casing	H. W. Alden	31,258	July 18	88	538
Vehicle motor-casing	H. S. Baldwin	30,968	June 6	87	1776
Vehicle running-frame	H. M. Pope	31,981	Dec. 12	89	2254
Vehicles. Oscillating body-loop for	E. M. Crane	31,089	June 27	87	2311
Velocipede front fork	G. L. Thompson	30,071	Jan. 24	86	627
Vending-machine case. Coin-controlled	P. Raczek	31,630	Oct. 10	89	343
Vessel-cap	P. Lindemeyr	30,765	May 16	87	1218
Vessel-cap	P. Lindemeyr	30,766	May 16	87	1218
Vial. Wooden	W. C. Estes	31,234	July 18	88	534
Vulcanizers. Locking-bar and handle for	F. F. Scholl	30,443	Mar. 28	86	2164
Wagon body. Speed-	W. B. White	30,119	Jan. 31	86	792
Wagon-sunshade iron	J. P. Shipman	31,471	Aug. 29	88	1696
Waist	S. Floersheimer	31,425	Aug. 15	88	1328
Waist. Child's	C. E. Ovenshire	31,456	Aug. 22	88	1522
Wall tie or binder	P. R. Wagor	31,136	July 4	88	181
Warming vessel	R. Swartz	30,090	Jan. 31	86	787
Warming vessel	R. Swartz	30,091	Jan. 31	86	787
Warp-stop-motion drop	H. Wyman	30,899	May 30	87	1597
Warp-stop-motion-machine drop	R. Crompton	31,259	July 18	88	538
Warp stop-motions. Drop for use in electrical	W. H. Baker and F. E. Kip	30,057	Jan. 24	86	624
Washboard	J. J. G. C. Schmidt	30,187	Feb. 14	86	1158
Washstand	P. J. Vetlesen	31,096	June 27	87	2313
Washstand	W. S. Hamm	32,044	Dec. 26	89	2645
Washstand	W. S. Hamm	32,045	Dec. 26	89	2646
Washstand	W. S. Hamm	32,046	Dec. 26	89	2646
Washstand. Cabinet-	E. Cohendos	31,611	Oct. 3	89	184
Washer	J. J. Turner	31,081	June 27	87	2312
Washing-block	G. W. Didway	31,682	Oct. 17	89	512
Washing-machine agitator	A. G. Cbristman	31,154	July 4	88	183
Washing-machine agitator staff	S. B. Bartley	31,718	Oct. 24	89	699
Washing-machine-casing lid	T. A. Galt	31,942	Dec. 5	89	2059
Washing-machine hanger	G. W. Palmer	30,576	Apr. 18	87	506
Washing-machine hanger	G. W. Palmer	30,622	Apr. 25	87	687
Washing-machine hanger	G. W. Palmer	31,634	Oct. 10	89	343
Washing-machine pounder	O. L. Wilson	31,047	June 20	87	2111
Washing-machine rubber	C. I. Fuller	30,679	May 2	87	880
Washing-machine sprayer attachment	J. E. Bradley	30,799	May 16	87	1223
Waste-bag. School	O. G. Law	30,459	Apr. 4	87	166
Watch-stand. Toilet-table	S. W. Ray	31,817	Nov. 14	89	1331
Water-bag	F. W. Stephenson	31,985	Dec. 12	89	2254
Water-closet seat	E. L. Taft	30,285	Feb. 28	86	1491
Water-heater	E. W. Robinson	30,801	May 16	87	1224
Water-meter	L. H. Nash	31,248	July 18	88	536
Water-wheel bucket or vane	A. H. Lighthall	31,192	July 11	88	377
Watering-trough	W. U. Snyder	31,286	July 25	88	710

Alphabetical list of designs—Continued.

Design.	Name.	No.	Date.	Official Gazette. Vol.	Page.
Wedge	J. Hunsinger, Jr	31,975	Dec. 12	89	2253
Weed-cutter	M. Bourgeois	29,975	Jan. 10	86	335
Wheel	H. C. Clay	30,967	June 6	87	1775
Wheel. Hand-	J. Ormerod	30,039	Jan. 17	86	484
Wheel-rim. Metallic	C. K. Welch	29,990	Jan. 10	86	337
Wheel-rim. Metallic	C. K. Welch	29,991	Jan. 10	86	337
Wheel-rim. Metallic	C. K. Welch	31,148	July 4	88	182
Wheel-rim. Supplemental	E. W. McCaslin	31,564	Sept. 26	88	2406
Wheel-rim. Supplemental	E. W. McCaslin	31,565	Sept. 26	88	2406
Wheel-rim. Supplemental	E. W. McCaslin	31,566	Sept. 26	88	2406
Wheel. Sprocket-	J. T. Fanning	29,948	Jan. 3	86	175
Wheel. Sprocket-	G. W. Hadley	30,117	Jan. 31	86	792
Wheel. Sprocket-	F. Patee	30,038	Jan. 17	86	484
Wheel. Sprocket-	W. F. Remppis	31,535	Sept. 19	88	2236
Wheel. Vehicle-	E. C. Phillips	31,683	Oct. 17	89	512
Wheel. Vehicle-	E. C. Phillips	31,684	Oct. 17	89	512
Whip-holder	L. Woodruff	30,882	May 30	87	1594
Whip-load	J. P. Pomeroy and H. M. Van Deusen.	31,468	Aug. 29	88	1696
Whistle	G. J. Couchois	31,876	Nov. 21	89	1664
Wick-trimmer	S. A. Hovey	30,566	Apr. 18	87	503
Window-fastener ratchet-bar	W. L. and C. T. Fields	31,510	Sept. 12	88	2061
Window-light	C. N. Schmitt	30,964	June 6	87	1775
Wire-cutter member	A. B. Schofield	31,862	Nov. 21	89	1659
Work-holder	C. O. Ellinwood	30,559	Apr. 18	87	502
Work-stand. Lady's	W. F. Falls	30,009	Jan. 17	86	479
Woven fabric	W. T. Smith	30,353	Mar. 14	86	1800
Woven fabric	W. T. Smith	30,354	Mar. 14	86	1801
Woven fabric	W. T. Smith	30,355	Mar. 14	86	1801
Wrench	D. F. Allerton	29,985	Jan. 10	86	336
Wrench	D. Ball	31,361	Aug. 8	88	1146
Wrench and brace member	H. L. Wallace	31,593	Oct. 3	89	181
Wrench boxing member	L. Cramer	30,197	Feb. 14	86	1160
Wrench handle. Pipe-	O. Lannon	31,141	July 4	88	181
Wrench-jaw	J. W. Broas	31,486	Sept. 5	88	1891
Wrench jaw. Pipe-	O. Lannon	31,142	July 4	88	182
Wrench jaw. Pipe-	F. A. Smith	31,940	Dec. 5	89	2058
Wrench member	C. W. Cookson	31,005	June 13	87	1950
Wrench. Nut-	D. Hill	30,115	Jan. 31	86	791
Wrenches. Sliding jaw for pipe-	J. S. Taylor	31,140	July 4	88	181
Writing-case. Side-wall	O. H. Greene	31,312	Aug. 1	88	938
Yoke center. Neck-	J. Ziegler	30,271	Feb. 28	86	1489

ALPHABETICAL LIST OF TRADE-MARKS.

Title.	Name.	No.	Date.	Official Gazette. Volume.	Page.
Abdominal bands	A. Wardroper	33,114	June 27	87	2316
Abrasive material. Certain named manufactured articles of	Norton Emery Wheel Company	33,757	Nov. 14	89	1340
Abrasive scouring-powder	J. M. Johnson	32,896	May 16	87	1232
Abrasive scouring-powder	J. M. Johnson	32,897	May 16	87	1232
Accordions	Lyon & Healy	33,013	June 6	87	1777
Acetylene generators, burners, and accessories	J. B. Colt & Co	32,681	Apr. 4	87	178
Agricultural implements and machinery. Certain named	G. Bell & Sons	33,795	Nov. 21	89	1667
Agricultural implements. Certain named	H. S. Chipman	32,717	Apr. 11	87	356
Albumin manufactured from meat or albumin-holding substances.	Eiweiss-u. Fleisch Extract Cie	32,837	May 9	87	1070
Albumen, preparations of albumen, and extract of meat	Toril Eiweiss und Fleisch Extract Company.	33,858	Dec. 5	89	2066
Albuminates and compounds thereof	E. von Bodenhausen	32,836	May 9	87	1070
Alcoholic burning compound. Solidified or semisolidified	R. Rossman	32,619	Mar. 21	86	1981
Ale	S. S. Pierce Company	33,813	Nov. 28	89	1858
Ale	Robinson Brewing Company	33,594	Oct. 17	89	518
Ale and porter	Robinson Brewing Company	33,595	Oct. 17	89	518
Ale. Draft and bottled	George W. Wiedenmayer, Incorporated.	32,355	Jan. 10	86	341
Ale. Ginger-	Gosman Ginger Ale Company	33,629	Oct. 24	89	703
Ale. Sugar-free pale	J. C. Harvey	32,572	Mar. 7	86	1632
Alimentary and dietetic products. Certain named	Maggi Food Works	33,215	July 11	88	383
Alimentary and dietetic products. Certain named	Maggi Food Works	33,438	Sept. 5	88	1894
Alimentary and dietetic products. Certain named	Maggi Food Works	33,482	Sept. 19	88	2339
Alimentary and dietetic products. Certain named	Maggi Food Works	33,483	Sept. 19	88	2240
Alloys	Lake Smelting Company	33,103	June 20	87	2115
Ammunition. Certain named	Peters Cartridge Company	33,053	June 6	87	1780
Ammunition. Certain named	Peters Cartridge Company	33,174	June 27	87	2322
Animal-wash	F. O. L. Walpole	33,586	Oct. 17	89	518
Antidote to cocaine or any of its compounds, such as eucaine.	Volasem Co	32,317	Jan. 3	86	179
Antifouling compositions, anticorrosives, paints, and other similar protecting coverings for surfaces.	J. McInnes & Son	33,346	Aug. 8	88	1156
Antihydroticum	Farbenfabriken of Elberfeld Company.	32,736	Apr. 18	87	511
Antirheumatic	Farbenfabriken of Elberfeld Company.	32,805	May 2	87	889
Antiseptic	F. Hoffmann-La Roche & Co	32,892	May 16	87	1232
Antiseptic	C. H. Walker	32,895	May 16	87	1232
Antiseptic and a remedy for certain named diseases	Dr. A. H. Keller Chemical Company	32,801	May 2	87	888
Antiseptic and germicidal compound	R. & F. Schweickhardt	32,518	Feb. 21	86	1321
Antiseptic dressing	Johnson & Johnson	33,149	June 27	87	2319
Antiseptic dressing. Surgeons'	Johnson & Johnson	33,480	Sept. 19	88	2239
Antiseptic in powdered form	G. A. Candler	32,654	Mar. 28	86	2169
Antiseptic. Internal	Farbenfabriken of Elberfeld Company.	33,521	Oct. 3	89	188
Antiseptic. Liquid	A. Ainslie	33,148	June 27	87	2319
Antiseptics	C. Prevet & Cie	32,893	May 16	87	1232
Antiseptics	C. Prevet & Cie	32,894	May 16	87	1232
Antiseptics	C. Prevet & Cie	33,046	June 6	87	1779
Antiseptics and disinfectants	La Société Chimique des Usines du Rhône, Anciennement Gilliard, P. Monnet et Cartier.	33,047	June 6	87	1779
Apparel. Certain named articles of	Knothe Brothers	33,202	July 11	88	382
Apparel. Certain named articles of men's	I. Alsberg & Co	33,285	Aug. 1	88	943
Apparel. Certain named articles of women's wearing-	Rew & Clapp	32,926	May 23	87	1392
Apparel. Certain named wearing-	Spitz Bros. & Mork	33,452	Sept. 12	88	2063
Apparel. Certain named wearing-	Wylie Manufacturing Co	33,203	July 11	88	382
Apparel for men and boys. Certain named	E. J. Swartwout	33,180	July 4	88	188
Apparel. Men's outer wearing-	Wile Bros. & Weill	33,721	Nov. 14	89	1337
Asbestos prepared for preventing radiation of heat	Snowdon, Sons & Company	32,961	May 23	87	1396
Asphaltum	Western Oil and Asphalt Company	32,637	Mar. 28	86	2168
Axes and hatchets	Supplee Hardware Company	33,257	July 18	88	544
Axes and other edge-tools	Supplee Hardware Company	33,283	July 25	88	714
Axle-grease	H. A. Moyer	33,672	Oct. 31	89	918
Bakers' supplies. Certain named	F. Goetz	33,461	Sept. 12	88	2064
Bakery products and confectionery. Certain named	Ward-Mackey Company	33,289	Aug. 1	88	943
Bakery products. Certain named	F. Teuscher	33,484	Sept. 19	88	2240
Baking-powder	J. P. Dieter Company	33,038	June 6	87	1779
Baking-powder	Grocers Supply Co	32,444	Jan. 31	86	795
Baking-powder	Hulman & Co	33,185	July 4	88	189
Baking-powder	New York Baking Powder Company.	32,556	Feb. 28	86	1495
Baking-powder	Southern Soda Works Company	33,907	Dec. 19	89	2457
Bales of cotton and other fibrous goods	Planters Compress Company	32,509	Feb. 21	86	1320
Ball-retainers	Star Ball Retainer Co	33,674	Oct. 31	89	918
Balms	Malay Remedy Company	33,844	Dec. 5	89	2065
Bath apparatus. Vapor-	C. M. Robinson	32,777	Apr. 25	87	693
Bearings for vehicle-wheels. Roller-	J. R. Richardson	33,054	June 6	87	1780
Beer	Hartmann & Fehrenbach Brewing Company.	33,631	Oct. 24	89	703
Beer	C. A. Koenig & Co	32,976	May 30	87	1603

Alphabetical list of trade-marks—Continued.

Title.	Name.	No.	Date.	Official Gazette. Vol.	Page.
Beer, ale, and porter. Lager	Consumers Park Brewing Company.	33,658	Oct. 31	89	916
Beer. Bottled	M. K. Goetz Brewing Company	32,494	Feb. 14	86	1166
Beer. Bottled lager	Dubuque Brewing and Malting Company.	33,398	Aug. 22	88	1523
Beer. Lager	B. Stroh Brewing Company	32,977	May 30	87	1603
Beer. Lager	B. Stroh Brewing Company	32,978	May 30	87	1603
Beer. Lager	Milwaukee-Waukesha Brewing Company.	33,444	Sept. 5	88	1895
Beer. Lager	Otto Huber Brewery	33,854	Dec. 5	89	2066
Beer. Lager	Pabst Brewing Company	33,264	July 25	88	713
Beer. Lager	Souther Brewing Company	33,507	Oct. 3	89	186
Beer. Root	H. E. Purdy	33,445	Sept. 5	88	1895
Beer. Root	E. A. Zatarain	33,265	July 25	88	713
Beige or vigoreux. Imitation	Firm of L. Hirsch	32,864	May 16	87	1229
Belts for women	Lady Belt Manufacturing Company	33,390	Aug. 22	88	1523
Beverage. Non-alcoholic soda	P. Fehler	32,589	Mar. 14	86	1802
Beverages. Carbonated	D. L. Ormsby	33,244	July 18	88	543
Beverages. Carbonated	J. Ries	33,086	June 20	87	2114
Beverages. Certain named	H. P. Finlay & Company	33,266	July 25	88	713
Beverages. Certain named	T. B. Hall & Co	33,630	Oct. 24	89	703
Bicycle-racks	"Fin-de-Cycle" Rack Company	32,621	Mar. 21	86	1981
Bicycle sundries. Certain named	G. J. Loomis	33,170	June 27	87	2321
Bicycle supplies. Certain named	National Cement and Rubber Manufacturing Company.	33,169	June 27	87	2321
Bicycles	Chainless Cycle Manufacturing Company.	32,916	May 16	87	1234
Bicycles	L. H. Manson	32,917	May 16	87	1234
Bicycles	Peoria Rubber and Manufacturing Company.	32,622	Mar. 21	86	1982
Bicycles and parts thereof	S. Dalsimer & Sons	32,336	Jan. 3	86	180
Bicycles for men, women, and children	E. J. Swartwout	33,198	July 4	88	190
Bicycles, their parts, and accessories	E. J. Willis	33,502	Sept. 26	88	2408
Binding. Skirt	Strauss, Sachs & Co	32,377	Jan. 17	86	486
Biscuits	W. A. Lorenz	33,749	Nov. 14	89	1339
Bitters	M. Bethencourt	33,141	June 27	87	2319
Bitters	Luyties Brothers	33,545	Oct. 10	89	350
Bitters	J. P. Mette	32,807	May 2	87	889
Bitters. Stomach	Deimel Bros. & Company	32,840	May 9	87	1070
Blasting articles. Certain named	Insoloid Fuse Company	33,755	Nov. 14	89	1340
Blood-purifier	Rex Pharmacal Co	33,518	Oct. 3	89	187
Blood-purifier and tonic. Liquid for use as a	W. O. and R. G. Barclay	33,059	June 13	87	1955
Blue. Laundry	Lester-Whitney Company	33,465	Sept. 12	88	2064
Bluing-tablets	J. N. Stull & Co	33,751	Nov. 14	89	1340
Boiler-tubes	C. A. Thompson	33,899	Dec. 12	89	2258
Boilers. Liquid preparation for removing scale, &c., from	Brown Company	32,616	Mar. 21	86	1981
Bonbons	Walter M. Lowney Company	32,326	Jan 3	86	179
Bonnet and hat frames	Stadecker & Emsheimer	32,861	May 16	87	1229
Books	Sir Isaac Pitman & Sons	32,964	May 30	87	1602
Boots and shoes	Atlas Shoe Company	33,476	Sept. 19	88	2239
Boots and shoes	Chipman-Pratt Company	32,583	Mar. 14	86	1802
Boots and shoes	H. E. Davis & Co	33,763	Nov. 21	89	1664
Boots and shoes	N. Fisher & Co	32,970	May 30	87	1602
Boots and shoes	Geo. E. Keith Company	32,471	Feb. 7	86	998
Boots and shoes	Harrisburg Boot and Shoe Manufacturing Company.	33,177	July 4	88	188
Boots and shoes	Jordan, Marsh & Co	32,971	May 30	87	1602
Boots and shoes	Keiffer Bros	32,629	Mar. 28	86	2167
Boots and shoes	E. H. Keiser	32,929	May 23	87	1393
Boots and shoes	J. B. Lewis Company	33,080	June 20	87	2113
Boots and shoes	Manning Shoe and Rubber Co	32,754	Apr. 25	87	691
Boots and shoes	N. L. Millard & Co	32,868	May 16	87	1230
Boots and shoes	Puritan Shoe Company	33,802	Nov. 28	89	1857
Boots and shoes	Warren Boot and Shoe Company	33,118	June 27	87	2316
Boots and shoes	Witte & Danner	33,020	June 6	87	1777
Boots and shoes and soles and uppers for same	Strong & Garfield Company	32,434	Jan. 31	86	794
Boots and shoes. Ladies'	Badger State Shoe Company	32,381	Jan. 17	86	486
Boots and shoes made of certain named materials	Preston B. Keith Shoe Company	33,117	June 27	87	2316
Boots and shoes. Men's	L. G. Bloomingdale	33,720	Nov. 14	89	1337
Boots and shoes. Men's, women's, and children's	Thomas J. Plant Company	32,341	Jan. 10	86	340
Boots, shoes, and lasts	Heywood Boot and Shoe Company	32,628	Mar. 28	86	2167
Boots, shoes, and slippers	N. O. Stone & Co	32,869	May 16	87	1230
Boots, shoes, and slippers	Packard & Field	33,533	Oct. 10	89	349
Boots, shoes, gaiters, and slippers	Monarch Shoe Company	33,577	Oct. 17	89	517
Boxes. Seamless tin	J. G. Taite's Sons	32,907	May 16	87	1233
Brackets. Certain named	Bridgeport Brass Company	33,406	Aug. 22	88	1524
Brandy. Blackberry	Pacific Oriental Trading Company	33,697	Nov. 7	89	1138
Brandy. Cognac	J. G. Monnet & Co	32,770	Apr. 25	87	693
Bread	India Food Company	33,510	Oct. 3	89	186
Bread	A. Scheele	33,247	July 18	88	543
Bread	Schlater Bros	33,123	June 27	87	2317
Bread	Schlater Bros	33,248	July 18	88	543
Bread and cake	Heydt Bakery Company	33,401	Aug. 22	88	1524
Bread and cakes	W. Roes	33,693	Nov. 7	89	1137
Bread and crackers	Collins Baking Company	33,782	Nov. 21	89	1666
Bread. Baked	J. G. Meinberg	33,886	Dec. 12	89	2258
Bread, cake, and pastry	L. A. O'Neill	32,698	Apr. 11	87	355
Bread, cakes, pies, and crackers	McKinney Bread Company	33,781	Nov. 21	89	1666
Brick. Fire	Kentucky Fire Brick Works	32,903	May 16	87	1233
Brick. Fire	Kentucky Fire Brick Works	32,904	May 16	87	1233
Brick. Fire	Kentucky Fire Brick Works	32,905	May 16	87	1233
Bricks. Certain named	Alphons Custodis Actien Gesellschaft für Essen- und Ofenbau.	33,111	June 20	87	2116
Bronces, brocades, and bronce colors	Eiermann & Tabor	33,023	June 6	87	1778
Bronces, brocades, and bronce colors	Eiermann & Tabor	33,024	June 6	87	1778
Bronces, brocades, and bronce colors	Eiermann & Tabor	33,025	June 6	87	1779

Alphabetical list of trade-marks—Continued.

Title.	Name.	No.	Date.	Official Gazette. Vol.	Page.
Brooms	O. S. Kulman	33,537	Oct. 10	89	349
Brushes. Certain named	C. A. Kirkwood	33,355	Aug. 15	88	1329
Brushes. Certain named	Palmetto Fibre Company	33,522	Oct. 3	89	188
Butter	Bartram Bros	32,604	Mar. 21	86	1979
Butter	H. S. Cannon	33,378	Aug. 15	88	1331
Butter	Lestrade Bros	33,219	July 11	88	383
Butter	D. W. Lewis	33,321	Aug. 8	88	1153
Butter	W. S. Quinby	32,833	May 9	87	1069
Butter	W. S. Quinby Company	32,327	Jan. 3	86	179
Butter	J. G. Turnbull	33,885	Dec. 12	89	2257
Butter	G. M. Wattles & Son	33,747	Nov. 14	89	1339
Butter and eggs	G. W. Martin & Bro	33,122	June 27	87	2317
Butter. Artificial	Capital City Dairy Company	33,400	Aug. 22	88	1524
Buttons. Collar-	Celluloid Company	33,300	Aug. 8	88	1151
Buttons. Stamped or turned	J. B. Shantz and F. Strasburg	33,121	June 27	87	2317
Cameras. Panoramic	Multiscope and Film Company	33,904	Dec. 19	89	2457
Candies	M. S. Cutting	33,031	June 6	87	1778
Candies and other confections	Porterfield & Conklin	32,771	Apr. 25	87	693
Candies. Molasses	G. S. Couch	32,493	Feb. 14	86	1166
Candy	Pan Confection Company	32,587	Mar. 14	86	1802
Candy in lozenge form	Pan Confection Company	32,695	Apr. 11	87	355
Candles	M. Falk	33,752	Nov. 14	89	1340
Canned and bottled goods. Certain named	Seeman Brothers	33,312	Aug. 8	88	1152
Canned and bottled goods. Certain named	Seeman Brothers	33,313	Aug. 8	88	1152
Canned and bottled goods. Certain named	Seeman Brothers	33,314	Aug. 8	88	1152
Canned and bottled goods. Certain named	Seeman Brothers	33,315	Aug. 8	88	1152
Canned and preserved goods and food condiments. Certain	Erie Preserving Company	33,036	June 6	87	1778
Canned fruits and vegetables	J. Butler	32,884	May 16	87	1231
Canned fruits and vegetables	J. H. Mohlman Company	33,220	July 11	88	384
Canned fruits and vegetables	William Fait Company	32,988	May 30	87	1604
Canned goods and foods and relishes. Certain named	Catton Bell & Co	32,772	Apr. 25	87	693
Canned goods and jellies. Certain named	Hahne & Co	32,362	Jan. 10	86	342
Canned goods and olive-oil. Certain named	Moos & Co	32,328	Jan. 3	86	180
Canned goods. Certain named	H. C. Baxter & Bro	32,359	Jan. 10	86	342
Canned goods. Certain named	H. C. Baxter & Bro	32,502	Feb. 14	86	1167
Canned goods. Certain named	H. C. Baxter & Bro	32,641	Mar. 28	86	2168
Canned goods. Certain named	L. Grebb	32,948	May 23	87	1395
Canned goods. Certain named	Hulman & Co	33,127	June 27	87	2317
Canned goods. Certain named	John Boyle Company	32,816	May 2	87	890
Canned goods. Certain named	Portland Packing Co	33,128	June 27	87	2317
Canned goods. Certain named	Portland Packing Co	33,129	June 27	87	2317
Canned goods. Certain named	Portland Packing Co	33,130	June 27	87	2317
Canned goods. Certain named	Portland Packing Co	33,131	June 27	87	2318
Canned goods. Certain named	Portland Packing Co	33,132	June 27	87	2318
Canned goods. Certain named	J. Price	33,549	Oct. 10	89	351
Canned goods. Certain named	William Numsen & Sons	32,949	May 23	87	1395
Canned groceries except olives	S. Hamill Company	33,272	July 25	88	714
Canned or preserved goods. Certain named	Merrell Soule Company	32,773	Apr. 25	87	693
Canned salmon	Fairhaven Canning Company	33,084	June 20	87	2114
Canned salmon	Fairhaven Canning Company	33,085	June 20	87	2114
Canned soups	American Food Company	33,083	June 20	87	2113
Carbon rods for electrical purposes	Actien-Gesellschaft für Fabrikation von Kohlenstiften, vormals F. Hardtmuth & Co.	32,854	May 9	87	1072
Carbons for electrical purposes	H. Reisinger	33,754	Nov. 14	89	1340
Carbureters, machines, and fittings for illuminating purposes. Certain named	"Sirius" Luftgas-Automaten-Gesellschaft Hamburg, mit Beschränkter Haftung.	32,546	Feb. 28	86	1495
Carpet-sweepers	Grand Rapids School Furniture Company.	33,055	June 6	87	1780
Cartons for bottles, &c	Hinde & Dauch	32,827	May 9	87	1069
Cartridges and primers therefor. Smokeless-powder	Union Metallic Cartridge Company	33,388	Aug. 15	88	1332
Cartridges. Paper-shell	Winchester Repeating Arms Company.	32,713	Apr. 11	87	356
Case-hardening and annealing compound	American Carburizing Company	32,424	Jan. 24	86	630
Cathartics and laxatives	L. J. Woodward	32,564	Feb. 28	86	1496
Catsup	H. M. Spuhler	33,597	Oct. 17	89	519
Cement	J. M. Carrère	33,528	Oct. 3	89	188
Cement	Portland Cementfabrik Saturn	33,446	Sept. 5	88	1895
Cement for certain named purposes	Eclipse Cement and Blacking Company.	33,877	Dec. 12	89	2257
Cement. Portland	Francis & Company	33,922	Dec. 19	89	2458
Cement. Portland	Johnson & Wilson	33,223	July 11	88	384
Cement. Portland	Portland Cementfabrik Hemmoor	32,582	Mar. 7	86	1632
Cement. Portland	F. Sears	33,790	Nov. 21	89	1667
Cements. Bicycle-	B. Nusbaum	32,581	Mar. 7	86	1632
Cereal products. Certain named	R. Tellez & Company	33,318	Aug. 8	88	1153
Cereals. Certain named	Texas Star Flour Mills	33,044	June 6	87	1779
Champagne	L. E. Battle	32,608	Mar. 21	86	1980
Charcoal	Chemical Charcoal Company	33,753	Nov. 14	89	1340
Cheese	A. L. Reynolds	33,938	Dec. 26	89	2650
Chemical and pharmaceutical preparations	Chemische Fabrik von Heyden, Gesellschaft mit Beschränkter Haftung.	32,451	Jan. 31	86	796
Chemical and pharmaceutical preparations	Chemische Fabrik von Heyden, Gesellschatt mit Beschränkter Haftung.	32,452	Jan. 31	86	796
Chemical and pharmaceutical substances and compounds for certain named purposes.	Ichthyol Gesellschaft, Cordes, Hermanni & Co.	33,347	Aug. 8	88	1156
Chemical and pharmaceutical substances and compounds for certain named purposes.	Ichthyol Gesellschaft, Cordes, Hermanni & Co.	33,348	Aug. 8	88	1156
Chemical composition of matter. Certain named	Fireproofine Company	33,470	Sept. 12	88	2064
Chemical compound in powdered form	American Chemical Specialty Company.	32,764	Apr. 25	87	692
Chemical compound in powdered form	American Chemical Specialty Company.	33,001	May 30	87	1605

Alphabetical list of trade-marks—Continued.

Title.	Name.	No.	Date.	Official Gazette. Vol.	Page.
Chemical, medicinal, and pharmaceutical substances. Vehicles for	W. Mielck, Schwanapotheke	32,371	Jan. 10	86	343
Chemical, pharmaceutic, and dietetic preparations, food, and nourishments.	Bauer & Cie	32,648	Mar. 28	86	2169
Chemical, pharmaceutical, surgical, dietetic, and cosmetic products and preparations.	Ichthyol Gesellschaft, Cordes, Hermanni & Co.	33,363	Aug. 15	88	1330
Chemical, pharmaceutical, surgical, dietetic, and cosmetic products and preparations.	Ichthyol Gesellschaft, Cordes, Hermanni & Co.	33,364	Aug. 15	88	1330
Chemical, pharmaceutical, surgical, dietetic, and cosmetic products and preparations.	Ichthyol Gesellschaft, Cordes, Hermanni & Co.	33,365	Aug. 15	88	1330
Chemical, pharmaceutical, surgical, dietetic, and cosmetic products and preparations for certain named purposes.	Ichthyol Gesellschaft, Cordes, Hermanni & Co.	33,349	Aug. 8	88	1156
Chemical preparation for certain named purposes	Draper & Palmer	33,002	May 30	87	1605
Chemical substances. Certain named	Actien Gesellschaft für Anilin Fabrikation.	32,529	Feb. 21	86	1322
Chemical substances. Certain named	Actien Gesellschaft für Anilin Fabrikation.	32,530	Feb. 21	86	1322
Chemical substances. Certain named	Actien Gesellschaft für Anilin Fabrikation.	32,531	Feb. 21	86	1322
Chemical substances. Certain named	Actien Gesellschaft für Anilin Fabrikation.	32,532	Feb. 21	86	1322
Chili spice preparations	Gebhardt Chili Powder Co	32,329	Jan. 3	86	180
Chocolate and cocoa	H. O. Wilbur & Sons	33,741	Nov. 14	89	1339
Chocolate bonbons	Walter M. Lowney Company	32,607	Mar. 21	86	1980
Chocolate, broma, and cocoa preparations	Walter Baker & Company	33,740	Nov. 14	89	1339
Chocolate-covered molasses chips	W. S. Trowbridge	33,072	June 13	87	1956
Chocolates	Rubine É Hijos	33,649	Oct. 31	89	916
Chocolates. Certain named	R. Lindt, Fils	33,910	Dec. 19	89	2457
Cider	Pomril, Limited	33,087	June 20	87	2114
Cigarettes	American Tobacco Company	32,806	May 2	87	889
Cigarettes	American Tobacco Company	33,263	July 25	88	713
Cigarettes	Notara Brothers	33,242	July 18	88	543
Cigarettes	H. L. Savory	32,973	May 30	87	1603
Cigarettes	Stephano Bros	33,698	Nov. 7	89	1138
Cigarettes and smoking-tobacco	Stephano Bros	33,327	Aug. 8	88	1154
Cigarettes. Manufactured tobacco and paper	Lambert & Butler	32,880	May 16	87	1231
Cigarettes. Paper	Lambert & Butler	32,879	May 16	87	1230
Cigars	T. M. Blakemore	32,422	Jan. 24	86	630
Cigars	Clinton-Copeland Company	33,855	Dec. 5	89	2066
Cigars	D. Harris	32,610	Mar. 21	86	1980
Cigars	S. L. Johns	33,416	Aug. 29	88	1700
Cigars	J. H. Lucke & Co	32,878	May 16	87	1230
Cigars	H. Nitzsche	33,437	Sept. 5	88	1894
Cigars	S. S. Pierce Company	32,739	Apr. 18	87	511
Cigars	E. Seidenberg, Stiefel & Company	32,974	May 30	87	1603
Cigars	E. Seidenberg, Stiefel & Company	32,975	May 30	87	1603
Cigars	Shryock-Johnson Manufacturing Company.	32,551	Feb. 28	86	1495
Cigars	Woodmen Cigar Company	33,181	July 4	88	188
Cigars	Ybor-Manrara Company	32,478	Feb. 7	86	993
Cigars and cheroots	R. D. Hall	32,768	Apr. 25	87	692
Cigars and cigarettes	J. E. Marx	33,547	Oct. 10	89	350
Cigars, cheroots, cigaros, stogies, and cigarettes	C. R. Becker & Co	32,353	Jan. 10	86	341
Cigars, cheroots, stogies, and cigarettes	L. A. Schaeffer & Co	33,026	June 6	87	1778
Cigars, cigarettes, and cheroots	I. A. Mitchell	33,065	June 13	87	1955
Cigars, cigarettes, and cheroots	O. Zurcher	33,325	Aug. 8	88	1154
Clasps. Self-fastening pants	National Tool and Stamping Company.	33,722	Nov. 14	89	1337
Cleaners, paste polish, and liquid dressing	Crescent Shoe Dressing Company	32,369	Jan. 10	86	343
Cleansing compound	M. A. B. Seymour	33,702	Nov. 7	89	1139
Cleansing compound for household use	E. B. Sutton	33,860	Dec. 5	89	2066
Cleansing compound. Paste-like	H. A. Thompson	33,212	July 11	88	383
Cleansing purposes. Certain solution for	T. H. Tabor and J. E. Craig	32,437	Jan. 31	86	794
Clothes-wringers and parts thereof	American Wringer Company	32,909	May 16	87	1233
Clothing. Certain named	Mayfield Woolen Mills	33,799	Nov. 28	89	1857
Clothing. Certain named	E. Perry	33,643	Oct. 31	89	915
Clothing. Certain named	S. N. Wood & Co	33,261	July 25	88	713
Clothing. Certain named men's	J. Yeska	33,495	Sept. 26	88	2408
Clothing. Certain named outer	Leopold, Solomon & Co	33,299	Aug. 1	88	944
Coal	E. J. Cummings	32,853	May 9	87	1071
Coal. Chemical compound for increasing combustibility of	National Fuel Compound Co	33,163	June 27	87	2321
Coal. Smithing	Lilly Coal Co	32,962	May 23	87	1396
Coating. Certain named surface	Velvelette Manufacturing Co	33,343	Aug. 8	88	1155
Coats, pants, and overalls	Syracuse Dry Goods Company	33,179	July 4	88	188
Cocks. Stop and waste	Landers, Frary & Clark	33,635	Oct. 24	89	704
Cocoa and chocolate and preparations thereof	Dr. Tibbles' Vi-Cocoa	32,956	May 23	87	1395
Cocoa. Powdered or breakfast	Walter Baker & Company	33,911	Dec. 19	89	2457
Cocoas and chocolates. Powdered	E. Rosedale	32,366	Jan. 10	86	343
Cocoanut. Shredded	F. Baker Co	33,186	July 4	88	189
Coffee	F. G. Alden	33,374	Aug. 15	88	1330
Coffee	Arbuckle Bros	32,953	May 23	87	1395
Coffee	Arbuckle Bros	32,954	May 23	87	1395
Coffee	B. W. Blauvelt Company	33,460	Sept. 12	88	2064
Coffee	B. W. Blauvelt Company	33,814	Nov. 28	89	1858
Coffee	F. P. Garrettson & Co	33,088	June 20	87	2114
Coffee	W. J. Gould & Company	33,134	June 27	87	2318
Coffee	H. Hackfeld & Company	32,638	Mar. 28	86	2168
Coffee	P. B. Hunt	32,811	May 2	87	889
Coffee	Hygienic Specialty Company	32,517	Feb. 21	86	1321
Coffee	E. Levering & Co	33,070	June 13	87	1956
Coffee	A. C. Mathewson & Co	33,135	June 27	87	2318
Coffee	W. S. Quinby	32,984	May 30	87	1603
Coffee	Shaw, Hammond & Carney	33,485	Sept. 19	88	2240
Coffee	Smith, Brett & Co	33,136	June 27	87	2318
Coffee	T. Wood & Co	32,383	Jan. 17	86	486
Coffee and tea	H. M. Humphrey	32,674	Apr. 4	87	177

Alphabetical list of trade-marks—Continued.

Title.	Name.	No.	Date.	Official Gazette. Vol.	Page.
Coffee. Condensed	New York Condensed Milk Company.	32,639	Mar. 28	86	2168
Coffee made from wheat or grain. Cereal	Sleepy Eye Milling Company	32,474	Feb. 7	86	993
Coffee. Raw and roasted	F. Archer & Co	33,742	Nov. 14	89	1339
Coffee. Roasted	Duryee & Barwise	33,069	June 13	87	1956
Coffee. Roasted	Duryee & Barwise	33,695	Nov. 7	89	1138
Coffee. Roasted	Oliver-Finnie Grocer Company	33,033	June 6	87	1778
Coffee. Roasted	Steinwender-Stoffregen Coffee Company.	32,985	May 30	87	1604
Coffee. Roasted	Thompson & Taylor Spice Company.	33,320	Aug. 8	88	1153
Coffee. Roasted	F. R. and W. A. Yerxa	33,269	July 25	88	713
Coffee. Roasted and granulated	Browning & Baines	32,882	May 16	87	1231
Coffee substitute	S. S. Pierce Company	33,068	June 13	87	1956
Coffees and teas	Shapleigh Coffee Company	32,441	Jan. 31	86	795
Coin-controlled mechanism	Caille-Schiemer Co	32,567	Mar. 7	86	1631
Coin-controlled mechanism	Caille-Schiemer Co	33,447	Sept. 5	88	1895
Collars	Bohne Bros. & Co	32,626	Mar. 28	86	2167
Collars and cuffs	Reversible Collar Company	32,687	Apr. 11	87	354
Collars and cuffs	Van Zandt, Jacobs & Co	33,718	Nov. 14	89	1337
Combs. Hair	Hannoversche Gummi-Kamm-Compagnie Actien-Gesellschaft.	33,646	Oct. 31	89	915
Combs. Hair-dressing	Parisian Comb Company	32,692	Apr. 11	87	354
Confectionery	H. Heide	32,606	Mar. 21	86	1980
Confectionery	Stern & Saalberg	33,246	July 18	88	543
Confectionery. Certain named	J. Kranz	32,553	Feb. 28	86	1495
Confectionery. Certain named	J. Kranz	32,554	Feb. 28	86	1495
Cooking utensils. Metal-ware	Manning Bowman & Company	33,897	Dec. 12	89	2258
Copper manufactures	Baltimore Copper Smelting and Rolling Company.	32,595	Mar. 14	86	1802
Cordials, herb bitters, and liquors	Oberhaeusser & Landauer	32,573	Mar. 7	86	1632
Cordials. Non-alcoholic ginger	G. C. Hines	33,137	June 27	87	2318
Corn and bunion shields	J. J. Georges & Son	33,082	June 20	87	2113
Corn cure	T. Casselmann	33,663	Oct. 31	89	917
Corn products	Hudnut Company	33,249	July 18	88	543
Corsets	J. Beckel & Co	32,433	Jan. 31	86	794
Corsets	Fellheimer & Co	32,469	Feb. 7	86	993
Corsets	Raphael Weill & Company	32,724	Apr. 18	87	510
Corsets	Worcester Corset Company	33,573	Oct. 17	89	516
Corsets. Ladies'	J. Beckel & Co	33,901	Dec. 19	89	2457
Cosmetic compounds	J. A. Brown	33,737	Nov. 14	89	1338
Cosmetics	Dr. J. Parker Pray Company	33,358	Aug. 15	88	1329
Cosmetics, salves, ointments, and unguents	Atlantic Refining Company	32,397	Jan. 17	86	488
Cotton cloth	Hewlett & Lee	32,466	Feb. 7	86	992
Cotton cloth	Hewlett & Lee	32,467	Feb. 7	86	992
Cotton cloth	Hewlett & Lee	32,691	Apr. 11	87	354
Cotton cloth with a silk finish	Harding, Whitman & Co	32,969	May 30	87	1602
Cotton fabrics	Bernheimer & Walter	32,863	May 16	87	1229
Cotton fabrics	Bernheimer & Walter	33,022	June 6	87	1777
Cotton fabrics	Burton Bros. & Co	32,631	Mar. 28	86	2167
Cotton fabrics	Burton Brothers & Co	33,237	July 18	88	542
Cotton goods	Bernheimer & Walter	32,465	Feb. 7	86	992
Cotton goods	Ely & Walker Dry Goods Company	33,352	Aug. 15	88	1329
Cotton goods	Silver Spring Bleaching and Dyeing Company.	33,077	June 20	87	2113
Cotton goods. Muslin and similar	J. M. Moore	32,309	Jan. 3	86	178
Cotton goods. Woven	Indian Head Mills of Alabama	32,751	Apr. 25	87	691
Cotton goods. Woven	Indian Head Mills of Alabama	32,752	Apr. 25	87	691
Cotton piece goods	S. A. Crozer & Son	33,451	Sept. 12	88	2063
Crackers	Thomas & Clarke	32,699	Apr. 11	87	355
Crackers, cakes, biscuits, macaroons, and breads	Lafayette Cracker and Confectionery Company.	33,628	Oct. 24	89	703
Cream for certain named purposes. Scented	L. A. Williams	33,423	Aug. 29	88	1701
Cream-separators	Ohlhaver Gebrüder	32,370	Jan. 10	86	343
Creosote phosphite	La Société Chimique des Usines du Rhône, Anciennement Gilliard, P. Monet et Cartier.	32,322	Jan. 3	86	179
Curative instruments for certain named diseases	Tochtermann & Company	33,286	Aug. 1	88	943
Curatives. Certain named	S. Schwarz	33,340	Aug. 8	88	1155
Cure for a certain named disease	J. Hislop	32,846	May 9	87	1071
Cure for certain named diseases	Consolidated Medicine Co	32,802	May 2	87	889
Currants	P. A. Burlumi	32,675	Apr. 4	87	177
Curtains	Firm O. Seyd	33,536	Oct. 10	89	349
Cutlery and hardware specialties. Certain named	Smith & Hemenway Company	33,350	Aug. 8	88	1156
Cyanid of potassium	British Cyanides Company	32,578	Mar. 7	86	1632
Cycles	Arcade File Works	32,351	Jan. 10	86	341
Cycles	Arcade File Works	32,915	May 16	87	1234
Cycles	Rudge-Whitworth	32,455	Jan. 31	86	796
Dairy products. Certain named	Borden's Condensed Milk Company.	33,439	Sept. 5	88	1895
Dairy products. Certain named	Hahne & Co	32,365	Jan. 10	86	342
Dairy products. Certain named	New York Condensed Milk Company.	32,384	Jan. 17	86	487
Dental gold	S. S. White Dental Manufacturing Company.	32,539	Feb. 28	86	1494
Dental molding compounds	J. C. Graft and W. Rodemann	33,062	June 13	87	1955
Dentifrices	C. A. Kirkwood	33,356	Aug. 15	88	1329
Detergent compound for laundry purposes	M. E. Butler	33,601	Oct. 17	89	519
Disinfectant	J. Brissonnet	32,848	May 9	87	1071
Disinfectant	J. Brissonnet	32,849	May 9	87	1071
Disinfectant	A. Campbell	33,947	Dec. 26	89	2651
Disinfectants and deodorizers	C. B. Blake	33,000	May 30	87	1605
Disinfectants and insecticides	E. Faussig	32,482	Feb. 7	86	994
Disinfectants. Certain named	Zenner-Raymond Disinfectants Company.	32,580	Mar. 7	86	1632
Dolls and toys	Geo. Borgfeldt & Company	33,924	Dec. 26	89	2648

Alphabetical list of trade-marks—Continued.

Title.	Name.	No.	Date.	Official Gazette. Vol.	Page.
Drugs and chemicals	La Société Chimique des Usines du Rhône, Anciennement Gilliard, P. Monnet et Cartier.	33,100	June 20	87	2115
Drugs and chemicals	Silenette Proprietary	32,652	Mar. 28	86	2169
Drugs and chemicals. Certain named	R. Pictet	33,003	May 30	87	1605
Drugs and chemicals. Certain named	I. Pomeroy Company	33,892	Dec. 12	89	2258
Drugs and tinctures, extracts, and essences therefrom. Vegetable	C. W. Caesar and O. H. A. Loretz	32,611	Mar. 21	86	1980
Drugs, chemicals, medicines, medical compounds, and pharmaceutical preparations.	Red Cross Drug and Chemical Company.	33,732	Nov. 14	89	1338
Dry goods. Certain named	Brion, Paté, Burke & Cie	32,308	Jan. 3	86	178
Dry goods. Certain named	T. G. Hill & Co	33,306	Aug. 8	88	1151
Dry goods. Certain named	T. G. Hill & Co	33,307	Aug. 8	88	1152
Dry goods. Certain named	T. G. Hill & Co	33,308	Aug. 8	88	1152
Dry goods. Certain named	T. G. Hill & Co	33,529	Oct. 3	89	188
Dry goods. Certain named	F. B. Royal & Co	33,642	Oct. 31	89	915
Dry goods, men's furnishings, and blankets. Certain named	Christensen, Mendenhall & Graham	32,824	May 9	87	1069
Dry goods. Piece	Sweetser, Pembrook & Co	33,115	June 27	87	2316
Dusters for household use. Hand-	R. L. Fairchild	33,709	Nov. 7	89	1139
Earthenware	P. Shelley	33,106	June 20	87	2115
Earthenware, china, porcelain, and parian	P. Shelley	33,808	Nov. 28	89	1858
Edge-tools. Certain named	North Wayne Tool Company	32,779	Apr. 25	87	694
Edge-tools. Certain named	North Wayne Tool Company	33,526	Oct. 3	89	188
Effervescent powders	Kutnow Brothers	33,372	Aug. 15	88	1330
Eggs	J. C. Mahr & Sons	33,252	July 18	88	544
Electric motors	J. P. Williams	32,456	Jan. 31	86	796
Electrical apparatus	Electro-Neurotone Company	33,524	Oct. 3	89	188
Electrical devices for body-wear	A. T. Sanden	34,840	Dec. 5	89	2064
Electrical goods and appliances. Certain named	Electrical Appliance Company	33,523	Oct. 3	89	188
Electrical machinery, lamps, devices, and appliances	General Incandescent Arc Light Company.	32,855	May 9	87	1072
Electricity from the human system. Instrument for removing	J. W. Shryock	33,051	June 6	87	1780
Embalming fluid	Imperial Fluid Company	32,797	May 2	87	888
Embalming fluid	Max Huncke Chemical Company	32,656	Mar. 28	86	2170
Embalming fluids	Max Huncke Chemical Company	33,396	Aug. 22	88	1523
Embalming fluids	Max Huncke Chemical Company	33,428	Aug. 29	88	1702
Embroidery, patterns, designs, and embroidering materials	Trueb & Isaacs	32,966	May 30	87	1602
Enamel or paint. Gold	Gerstendorfer Bros	32,899	May 16	87	1232
Enameled ware. Certain named	J. C. Dowd & Co	32,820	May 2	87	890
Enameled steel and iron ware	Hibbard, Spencer, Bartlett & Company.	33,760	Nov. 14	89	1340
Enamelware. All kinds of	John Dunlap Company	33,164	June 27	87	2321
Engines. Vapor-	C. C. Riotte Company	32,963	May 23	87	1396
Extracts. Certain named	E. Rosedale	32,387	Jan. 17	86	487
Fabrics. Certain named woven	Minot, Hooper & Co	33,926	Dec. 26	89	2648
Fabrics. Certain named	William Skinner Manufacturing Company.	32,750	Apr. 25	87	691
Fabrics for facings and linings. Textile	Keys, Collier & Tillard	32,930	May 23	87	1393
Face-bleach	E. J. Crane	33,843	Dec. 5	89	2065
Face-cream	E. E. Gallogly & Co	33,771	Nov. 21	89	1665
Face-washes. Liquid	E. Milley	33,736	Nov. 14	89	1338
Farm machinery and agricultural implements	M. Smith Co	33,898	Dec. 12	89	2258
Fat or oil. Vegetable	India Refining Company	33,499	Sept. 26	88	2408
Feed-mills	Stover Manufacturing Company	32,458	Jan. 31	86	796
Feed stuffs. Certain named	J. W. Biles Company	32,446	Jan. 31	86	795
Ferruginous preparation	Nicolay & Co	33,849	Dec. 5	89	2065
Fertilizers	H. S. Zook	33,225	July 11	88	384
Fertilizers. Artificial	Rasin-Monumental Company	33,344	Aug. 8	88	1155
Fertilizers. Artificial	Rasin-Monumental Company	33,345	Aug. 8	88	1156
Fiber-board. Certain named	Leatheroid Manufacturing Company.	33,296	Aug. 1	88	944
Files, rasps, twist-drills, and handsaws	Kearney & Foot Company	32,749	Apr. 18	87	512
Files, rasps, twist-drills, and handsaws	Kearney & Foot Company	32,778	Apr. 25	87	693
Filmed dressing, powders, and plasters	J. Wheeler	33,515	Oct. 3	89	187
Filters	C. Prevet & Cie	32,908	May 16	87	1233
Filters and filtering apparatus	H. Nordtmeyer	33,387	Aug. 15	88	1332
Finger-nail polish	Dr. J. Parker Pray Company	33,357	Aug. 15	88	1329
Finger-ring gages	Sussfeld, Lorch & Co	33,260	July 25	88	713
Fire-extinguishers, chemical-engines, and hand-grenades and attachments therefor.	Fire Extinguisher Manufacturing Company.	33,703	Nov. 7	89	1139
Fire-kindlers	S. Elias	33,797	Nov. 21	89	1668
Firearms	Colt's Patent Fire Arms Manufacturing Company.	32,536	Feb. 21	86	1322
Fish	Harvey & Outerbridge	33,254	July 18	88	544
Fish	Harvey & Outerbridge	33,273	July 25	88	714
Fish and crabs. Fresh and processed	C. H. Lighthiser	33,288	Aug. 1	88	943
Flame-proof products. Certain named	Flame-Proof Company	33,878	Dec. 12	89	2257
Flavoring compounds for foods	E. R. La Place	32,983	May 30	87	1603
Flavoring extracts	P. L. Graham	33,655	Oct. 31	89	916
Flavoring extracts and toilet salves and creams. Liquid	C. A. Pearsall Co	33,159	June 27	87	2320
Flavoring materials	G. F. Heublein & Bro	33,316	Aug. 8	88	1153
Flour	Crown Milling Company	33,552	Oct. 10	89	351
Flour	Cumberland Cereal Company	33,887	Dec. 12	89	2258
Flour	Holt & Co	32,558	Feb. 28	86	1495
Flour	Holt & Co	32,559	Feb. 28	86	1495
Flour	C. C. Leinweber	32,818	May 2	87	890
Flour	Meyer & Bulte	33,779	Nov. 21	89	1665
Flour	Oliver-Finnie Grocer Company	33,778	Nov. 21	89	1665
Flour	H. W. Peabody & Co	32,886	May 16	87	1231
Flour	C. R. Schoolcraft & Son	33,462	Sept. 12	88	2064
Flour and certain named cereal food products	Sleepy Eye Milling Company	33,511	Oct. 3	89	187
Flour and certain named cereal food products	Sleepy Eye Milling Company	33,512	Oct. 3	89	187
Flour and oatmeal. Domestic wheat-	Baltimore Wholesale Grocery Company.	33,217	July 11	88	383
Flour, meal, and peanuts	W. A. Whitehead & Son	33,043	June 6	87	1779

Alphabetical list of trade-marks—Continued.

Title.	Name.	No.	Date.	Official Gazette. Vol.	Page.
Flour. Self-raising	Sleepy Eye Milling Company	33,039	June 6	87	1779
Flour. Wheat-	Atlanta Milling Company	33,487	Sept. 19	88	2240
Flour. Wheat-	Bay State Milling Company	32,885	May 16	87	1231
Flour. Wheat-	Bonus-Milner Milling Company	33,780	Nov. 21	89	1666
Flour. Wheat-	Christensen & Henderson	32,445	Jan. 31	86	795
Flour. Wheat-	Dodwell & Company	33,627	Oct. 24	89	703
Flour. Wheat-	Dodwell & Company	33,857	Dec. 5	89	2066
Flour. Wheat-	Donmeyer, Gardner & Co	33,040	June 6	87	1779
Flour. Wheat-	Donmeyer, Gardner & Co	33,041	June 6	87	1779
Flour. Wheat-	Excelsior Mill Company	33,441	Sept. 5	88	1895
Flour. Wheat-	Firm of Patrick H. Sheehy	33,271	July 25	88	714
Flour. Wheat-	Geo. P. Plant Milling Company	32,361	Jan. 10	86	342
Flour. Wheat-	W. L. Green	32,557	Feb. 28	86	1495
Flour. Wheat-	J. B. M. Kehlor	33,319	Aug. 8	88	1153
Flour. Wheat-	W. H. Ketzeback Milling Company	32,951	May 23	87	1395
Flour. Wheat-	Listman Mill Company	32,569	Mar. 7	86	1631
Flour. Wheat-	Listman Mill Company	33,653	Oct. 31	89	916
Flour. Wheat-	Listman Mill Company	33,654	Oct. 31	89	916
Flour. Wheat-	D. W. Marmon	32,415	Jan. 24	86	629
Flour. Wheat-	Phoenix Flour Mill	33,440	Sept. 5	88	1895
Flour. Wheat-	Sessinghaus Milling Company	32,775	Apr. 25	87	693
Flour. Wheat-	H. B. Smith	33,375	Aug. 15	88	1331
Flour. Wheat-	H. B. Smith	33,376	Aug. 15	88	1331
Flour. Wheat-	H. B. Smith	33,377	Aug. 15	88	1331
Flour. Wheat-	Stoddard, Gilbert & Co	32,416	Jan. 24	86	629
Flour. Wheat-	Waggoner Gates Milling Company	32,952	May 23	87	1395
Flour. Wheat-	J. G. White & Co	33,042	June 6	87	1779
Flours and foods. Certain named	Ralston Yeast Company	33,125	June 27	87	2317
Flux for jewelers, silversmiths, and copper and brass workers.	G. Goldsmith	33,700	Nov. 7	89	1138
Food. Certain named article of	J. H. Kellogg	33,124	June 27	87	2317
Food for domestic use. Cereal	Farwell & Rhines	33,596	Oct. 17	89	519
Food for infants and invalids	Smith, Kline & French Company	33,928	Dec. 26	89	2648
Food for live stock and poultry	E. Rauh & Sons	32,472	Feb. 7	86	993
Food for poultry and domestic animals. Certain named	Bowker Fertilizer Company	32,447	Jan. 31	86	795
Food. Poultry	Empire Egg Maker Co	33,888	Dec. 12	89	2258
Food. Prepared breakfast-	W. F. T. Bushnell	33,652	Oct. 31	89	916
Food products. Cereal	H-O (Hornby's Oatmeal) Company	32,989	May 30	87	1604
Food products. Certain named	H. J. Heinz	33,551	Oct. 10	89	351
Food products. Certain named	Van Lill Preserving Company	33,216	July 11	88	383
Food. Wheat breakfast-	Pillsbury-Washburn Flour Mills Company.	33,553	Oct. 10	89	351
Food. Wheat breakfast-	Pillsbury-Washburn Flour Mills Company.	33,554	Oct. 10	89	351
Food. Wheat breakfast-	Pillsbury-Washburn Flour Mills Company.	33,555	Oct. 10	89	351
Food. Wheat breakfast-	Pillsbury-Washburn Flour Mills Company.	33,556	Oct. 10	89	352
Food. Wheat breakfast-	Pillsbury-Washburn Flour Mills Company.	33,557	Oct. 10	89	352
Food. Wheat breakfast-	Pillsbury-Washburn Flour Mills Company.	33,929	Dec. 26	89	2648
Food. Wheat breakfast-	Pillsbury-Washburn Flour Mills Company.	33,930	Dec. 26	89	2649
Food. Wheat breakfast-	Pillsbury-Washburn Flour Mills Company.	33,931	Dec. 26	89	2649
Food. Wheat breakfast	Pillsbury-Washburn Flour Mills Company.	33,932	Dec. 26	89	2649
Food. Wheat breakfast-	Washburn Crosby Company	33,908	Dec. 19	89	2457
Food. Wheat breakfast-	Washburn Crosby Company	33,909	Dec. 19	89	2457
Foods and relishes. Certain named	Columbia Preserving Company	33,513	Oct. 3	89	187
Foods and relishes. Certain named	G. C. Dobell & Co	32,947	May 23	87	1395
Foods and relishes. Certain named	Lutz & Schramm Co	32,835	May 9	87	1070
Foods and relishes. Certain named	Schmidt-Thies Pure Food Co	33,074	June 13	87	1956
Foods. Cereal breakfast	Elgin Breakfast Food Company	32,817	May 2	87	890
Foods. Desiccated preserved	Mecredy Manufacturing Syndicate	32,385	Jan. 17	86	487
Foods. Farinaceous	Goddard Grocer Company	33,750	Nov. 14	89	1339
Foods for horses, cattle, and farm stock. Mixed	E. Dowie and J. M. Oxley	32,744	Apr. 18	87	512
Foot-powders	F. H. Strohm	33,422	Aug. 29	88	1701
Footwear. Certain named	Parker, Holmes & Co	33,454	Sept. 12	88	2063
Fruit juices	G. F. Clark & Co	32,950	May 23	87	1395
Fruits. Tinned	H. W. Rowland and W. H. Harrison	32,814	May 2	87	890
Fruits. Tinned	H. W. Rowland and W. H. Harrison	32,815	May 2	87	890
Fuel. Artificial	Petolite Fuel Syndicate	33,276	July 25	88	714
Fuel. Machine for preparing and feeding	Ideal Fuel Feeder Company	32,912	May 16	87	1233
Furniture-polish	R. Geshicktier	32,331	Jan. 3	86	180
Fuses. Certain named	Johns-Pratt Company	33,634	Oct. 24	89	704
Fuses for explosive articles	California Fuse Works	32,347	Jan. 10	86	341
Gall cure	Kosciusko Gall Cure Co	32,994	May 30	87	1604
Game	Milton Bradley Company	32,789	May 2	87	887
Game apparatus. Parlor	Parker Bros	33,531	Oct. 10	89	349
Game-chips	New York Consolidated Card Company.	33,836	Dec. 5	89	2064
Games. Indoor	A. Hodge	33,871	Dec. 12	89	2256
Gas generators except acetylene-gas lamps. Acetylene-	F. W. Preussel	32,682	Apr. 4	87	178
Gas-lighting burners. Incandescent	De Lery Light Company	32,401	Jan. 17	86	488
Gelatin	C. B. Knox	33,292	Aug. 1	88	943
Gentlemen's wear. Certain named articles for	Myers & Rossbach	32,927	May 23	87	1362
Gin and whisky	J. K. Rickey	32,477	Feb. 7	86	993
Glass. Rolled plate-	Glasgow Plate Glass Co	33,165	June 27	87	2321
Glass. Sheet and other window	W. P. Fuller & Company	32,957	May 23	87	1395
Glass. Sheet and other window-	W. P. Fuller & Company	32,958	May 23	87	1395
Glass. Sheet and other window-	W. P. Fuller & Company	32,959	May 23	87	1396
Glass. Sheet and other window-	W. P. Fuller & Company	32,960	May 23	87	1396
Gloves	E. Pewny & Co	33,618	Oct. 24	89	702
Gloves	M. Wertheimer	33,762	Nov. 21	89	1664
Gloves	M. Wertheimer	33,900	Dec. 19	89	2457

Alphabetical list of trade-marks—Continued.

Title.	Name.	No.	Date.	Official Gazette. Vol.	Page.
Gloves and mittens	Joseph N. Eisendrath Company	32,723	Apr. 18	87	510
Gloves. Kid and other leather	G. & H. Haustgen	32,600	Mar. 21	86	1979
Gloves. Leather	C. Holste & Co	32,380	Jan. 17	86	486
Gloves. Leather and woven-fabric	A. H. Mansbach	33,079	June 20	87	2113
Gloves. Washable kid	A. H. Mansbach	33,078	June 20	87	2113
Golf clubs and balls	E. K. Tryon, Jr., & Co	33,171	June 27	87	2322
Golf-supply goods. Certain	Crawford, McGregor & Canby Company.	33,827	Nov. 28	89	1859
Granite. Rough and cut	Young & Sons	32,856	May 9	87	1072
Grapes	A. D. Benway	33,399	Aug. 22	88	1524
Grease for lubricating purposes	Snowdon, Sons & Company	32,533	Feb. 21	86	1322
Groceries. Certain named	Barnes & Co	33,317	Aug. 8	88	1153
Groceries. Certain named	Charles & Co	32,514	Feb. 21	86	1320
Groceries. Certain named	H. S. Chipman	33,548	Oct. 10	89	351
Groceries. Certain named	Feilchenfeld Bros	32,417	Jan. 24	86	629
Groceries. Certain named	Feilchenfeld Bros	32,945	May 23	87	1394
Groceries. Certain named	W. J. Gould & Company	33,221	July 11	88	384
Groceries. Certain named	Hahne & Co	32,364	Jan. 10	86	342
Groceries. Certain named	S. Hamill Company	33,037	June 6	87	1779
Groceries. Certain named	I. R. Howard & Co	33,859	Dec. 5	89	2066
Groceries. Certain named	Hulman & Co	33,251	July 18	88	543
Groceries. Certain named	T. P. Hunter	33,430	Aug. 29	88	1702
Groceries. Certain named	Oliver-Finnie Grocer Company	32,642	Mar. 28	86	2168
Groceries. Certain named	Ransom Bros. Company	33,258	July 18	88	544
Groceries. Certain named	R. I. Sherman	33,126	June 27	87	2317
Groceries. Certain named	W. E. Sibley	33,815	Nov. 28	89	1858
Groceries. Certain named	P. Smith & Sons	32,743	Apr. 18	87	512
Groceries. Certain named	Tillmann & Bendel	33,650	Oct. 31	89	916
Groceries. Certain named	Wardman & Behr	33,776	Nov. 21	89	1665
Grocers' goods. Certain named	Foley Bros. & Kelly Mercantile Company.	33,250	July 18	88	543
Grocery specialties. Certain named	R. B. Stewart & Co	32,946	May 23	87	1395
Gum. Chewing	H. N. Hempstead	32,877	May 16	87	1230
Gum. Chewing	L. Loy	33,371	Aug. 15	88	1330
Gun-barrels	Hunter Arms Company	32,348	Jan. 10	86	341
Gun-barrels	Hunter Arms Company	32,349	Jan. 10	86	341
Gun greases and lubricants	N. P. Leach Co	32,746	Apr. 18	87	512
Gun-wads	F. C. Fowler	32,426	Jan. 24	86	630
Guns. Breech-loading or breakdown hammerless shot	Fox Gun Company	32,508	Feb. 14	86	1168
Hair and scalp. Preparations for the	J. C. Ayer Company	33,820	Nov. 28	89	1859
Hair and scalp tonics	A. F. Richardson	32,522	Feb. 21	86	1321
Hair and scalp tonics	A. F. Richardson	32,523	Feb. 21	86	1321
Haircloth	G. S. Cox & Bro	33,717	Nov. 7	89	1140
Hair-crimpers	J. J. Beetson	33,301	Aug. 8	88	1151
Hair. Preparations for removal of	H. W. Crolley	32,614	Mar. 21	86	1981
Hair. Preparation for the removal of	H. W. Crolley	32,728	Apr. 18	87	510
Hair. Preparations for the removal of	M. M. Tolke	32,729	Apr. 18	87	510
Hair-removers	Moolten-Peterson Chemical Co	32,372	Jan. 10	86	343
Hair-restorer	Van Vleet-Mansfield Drug Company.	32,668	Apr. 4	87	176
Hair supporting and fastening devices. Certain named	Eschwege & Cohn	33,302	Aug. 8	88	1151
Hair-tonic	G. Lederer	32,667	Apr. 4	87	176
Hair-tonic and dandruff cure	Oolahline Hair Grower Co	33,915	Dec. 19	89	2458
Hair tonics and lotions	B. Emery	33,626	Oct. 24	89	703
Hames	Consolidated Hame Co	33,008	May 30	87	1606
Hammocks	D. W. Shoyer & Co	32,584	Mar. 14	86	1802
Hammocks and supporting and suspension devices therefor	I. E. Palmer	33,477	Sept. 19	88	2239
Hams	F. P. Garrettson & Co	33,034	June 6	87	1778
Hardware. Certain builders'	Reading Hardware Company	32,910	May 16	87	1233
Hardware. Certain named	Gray & Dudley Hardware Company	33,906	Dec. 19	89	2457
Hardware. Certain named articles of	Gray & Dudley Hardware Company	33,282	July 25	88	714
Harmonicas	Strauss, Sachs & Co	32,409	Jan. 24	86	628
Harmonicas. Mouth	F. Scribner	33,568	Oct. 17	89	516
Harmonicas. Mouth	V. Strauss	33,727	Nov. 14	89	1337
Hat-bands. Mourning	Burt & Harris	32,378	Jan. 17	86	486
Hat-finishers' labels	Wharton & Company	32,790	May 2	87	887
Hats	Ferry & Napier	32,783	May 2	87	887
Hats	Ferry & Napier	32,784	May 2	87	887
Hats and caps	John B. Stetson Company	33,645	Oct. 31	89	915
Hats and caps. Men's and boys'	Boogher, Force & Goodbar Hat Company.	32,510	Feb. 21	86	1320
Hats. Felt	Harrop, Gist & Co	33,571	Oct. 17	89	516
Hats. Felt	Harrop, Gist & Co	33,572	Oct. 17	89	516
Headache cure	H. T. Hicks	32,391	Jan. 17	86	487
Hearing. Instrument to assist the	R. C. M. Bowles	32,792	May 2	87	888
Herbs for making a fever-tea. Compound of	Fever Tea Company	32,612	Mar. 21	86	1980
Hinges. Spring	Stover Manufacturing Company	32,460	Jan. 31	86	796
Horse-boots	Gilliam Manufacturing Company	33,007	May 30	87	1606
Horse-powers	Stover Manufacturing Company	32,459	Jan. 31	86	796
Horseshoe-nails	Ausable Horse Nail Company	33,489	Sept. 19	88	2240
Horseshoes	W. H. Williams	32,350	Jan. 10	86	341
Hosiery	I. Briggs & Sons	32,725	Apr. 18	87	510
Hosiery	Cooper, Wells & Company	33,412	Aug. 29	88	1700
Hosiery	F. M. Farber	32,785	May 2	87	887
Hosiery and other knitted apparel	O. Osborne	32,753	Apr. 25	87	691
Household utensils and bric-a-bric. Certain	F. H. Schmitz	33,105	June 20	87	2115
Hydrants, pumps, water-nozzles, lawn-sprinklers, and street-washers.	H. F. Neumeyer	32,658	Mar. 28	86	2170
Hypnotic. New	Farbenfabriken of Elberfeld Company.	33,894	Dec. 12	89	2258
Ice-cream	Willett & Haney	33,073	June 13	87	1956
Incandescent mantles	Cosmopolitan Incandescent Gas Light Company.	33,951	Dec. 26	89	2651
Injectors. Steam	J. C. Drucklieb & Co	33,012	May 30	87	1606
Ink. Crystalline substance to be mixed with a solvent for an	A. H. Lambrecht	33,419	Aug. 29	88	1701
Ink-stains, &c. Preparation for removing	C. W. McCrossan	33,699	Nov. 7	89	1138

Alphabetical list of trade-marks—Continued.

Title.	Name.	No.	Date.	Official Gazette. Vol.	Page.
Insect-exterminators	N. McShane	32,763	Apr. 25	87	692
Insects. Sticky paper for	J. Stumpf	32,858	May 16	87	1229
Insecticides	L. N. Adler	32,999	May 30	87	1605
Insecticides	F. L. Lavanburg	32,483	Feb. 7	86	994
Insecticides	F. L. Lavanburg	32,615	Mar. 21	86	1981
Insecticides and disinfectants	W. L. Eaton	33,585	Oct. 17	89	517
Insecticides and rodent poisons	H. Naprstek	33,662	Oct. 31	89	917
Instruments of precision. Certain named	P. H. Dudley	32,715	Apr. 11	87	356
Insulating composition	Volenite, Limited	33,429	Aug. 29	88	1702
Insulators. Certain named	Albert & J. M. Anderson Manufacturing Company.	32,544	Feb. 28	86	1494
Iron and steel and articles manufactured therefrom, except steel balls.	W. T. Beesley & Company	33,173	June 27	87	2322
Iron and steel manufactures. Certain	Nettlefolds, Limited	33,793	Nov. 21	89	1667
Iron articles. Certain named cast-	Bingham & Taylor	33,011	May 30	87	1606
Iron or steel in the form of rough blocks, slabs, or pigs	Youngstown Steel Company	33,258	July 18	88	544
Jars. Self-sealing	A. Legrand	32,680	Apr. 4	87	178
Jewelry. Certain named articles of	W. & S. Blackinton	32,431	Jan. 31	86	794
Jewelry. Certain named articles of	Weinmann & Co	33,284	Aug. 1	88	943
Knit cotton underwear. Mercerized	Robert Reis & Company	33,453	Sept. 12	88	2063
Knit goods. Certain named	Leicester and Continental Mills Company.	33,644	Oct. 31	89	915
Knit goods or underwear	Hay & Todd Manufacturing Company.	32,511	Feb. 21	86	1320
Knit hose	Chicago-Rockford Hosiery Company.	32,928	May 23	87	1393
Knitted articles of clothing	R. Walker & Sons	33,411	Aug. 29	88	1700
Knitted fabrics and garments made therefrom	W. Benger Soehne	33,865	Dec 12	89	2256
Knitted fabrics and garments made therefrom	W. Benger Soehne	33,866	Dec. 12	89	2256
Knives, razors, scissors, and shears. Pocket-	Valley Forge Cutlery Company	33,758	Nov. 14	89	1340
Laces. Boot and shoe	William Paton, Limited	33,057	June 13	87	1955
Laces. Corset-	Ansonia O & C Company	32,967	May 30	87	1602
Lamp appliances. Certain named	"Era" Incandescent Oil Lamp Company.	33,525	Oct. 3	89	188
Lamp-chimneys	Nave & McCord Mercantile Company.	32,633	Mar. 28	86	2168
Lamp-chimneys. Certain named	H. Michalek	32,503	Feb. 14	86	1167
Lamp-chimneys. Certain named	H. Michalek	32,504	Feb. 14	86	1167
Lamp-wicks	A. J. Chevalier	33,433	Sept. 5	88	1894
Lamps. Acetylene-gas	F. W. Hedgeland	33,488	Sept. 19	88	2240
Lamps. Arc-	Standard Thermometer and Electric Company.	32,335	Jan. 3	86	180
Lamps. Bicycle and carriage	Calcium King Lamp Company	32,484	Feb. 7	86	994
Lamps. Bicycle and carriage	Calcium King Lamp Company	32,535	Feb. 21	86	1322
Lamps. Electric-arc	Albert & J. M. Anderson Manufacturing Company.	32,545	Feb. 28	86	1494
Lamps. Incandescent electric	J. C. Sterns & Co	33,952	Dec. 26	89	2651
Lamps. Miners'	G. Anton	33,199	July 4	88	190
Lamps. Vehicle and bicycle	E. J. Dolan	32,819	May 2	87	890
Lard, sausages, and bacon	Tietgens & Robertson	33,184	July 4	88	189
Laxatives	M. H. Johnston	33,147	June 27	87	2319
Laxatives	F. P. Pratt	33,625	Oct. 24	89	703
Lead. White	Heath & Milligan Manufacturing Company.	33,295	Aug. 1	88	944
Leads, zincs, and mixed paints	F. O. Pierce Company	32,635	Mar. 28	86	2168
Leads, zincs, and mixed paints	F. O. Pierce Company	32,636	Mar. 28	86	2168
Leather and boots and shoes	C. T. Sampson Manufacturing Company.	33,838	Dec. 5	89	2064
Leather and footwear made of leather	Hine & Lynch	33,837	Dec. 5	89	2064
Leather, canvas, and rubber boots, shoes, and slippers	F. A. Seavey	33,353	Aug. 15	88	1329
Leather. Chemical preparation for the preservation of	Semelline-Compagnie, Gesellschaft mit Beschränkter Haftung.	33,818	Nov. 28	89	1859
Leather consisting of pulp-board. Substitute for	A. W. Case & Son	32,860	May 16	87	1229
Leather-dressing	Milwaukee Chemical Works	33,472	Sept. 12	88	2064
Leather-dressing. Waterproof	Waterwax Manufacturing Co	33,274	July 25	88	714
Leather for gloves and leather gloves	J. Steel	32,337	Jan. 10	86	340
Leather. Harness-makers'	C. C. Warren	33,119	June 27	87	2316
Leather. Liquid composition for	W. Hose and F. W. Partridge	32,548	Feb. 28	86	1495
Leathers. Light-weight	H. A. and C. E. Lappe	33,435	Sept. 5	88	1894
Lime-juice	A. G. Morris	33,789	Nov. 21	89	1667
Lenses for railway semaphore-signal lights	J. C. Baird	33,166	June 27	87	2321
Limes and lime-flour. Certain named	L. Rose & Company	32,982	May 30	87	1603
Liniment	Chisholm & Welsh	32,998	May 30	87	1605
Liniment	F. L. Denton	32,937	May 23	87	1394
Liniment	W. H. Eldred	33,852	Dec. 5	89	2065
Liniment	J. P. Jones	32,711	Apr. 11	87	356
Liniment	W. E. Mellor	33,240	July 18	88	543
Liniment	W. E. Mellor	33,279	July 25	88	714
Liniment for certain named ailments	H. H. Hamer	32,997	May 30	87	1605
Liniment for certain named diseases	A. Beckham	33,851	Dec. 5	89	2065
Liniment, salve, ointment, and pile cure	W. A. Garden	33,734	Nov. 14	89	1338
Liniments	H. G. Farrell	33,917	Dec. 19	89	2458
Liniments and lotions	S. D. Villette	33,733	Nov. 14	89	1338
Liniments and lotions for certain named diseases	S. D. Villette	32,575	Mar. 7	86	1632
Liniments, powders, and pills	J. Downing	33,514	Oct. 3	89	187
Liqueur made with cherries	L. Fremy, Fils	33,810	Nov. 28	89	1858
Liqueur or beverage. Certain named	Société Anonyme des Mines de Yauli.	32,356	Jan. 10	86	342
Liquors. Certain named malt	Christian Feigenspan	33,593	Oct. 17	89	518
Liquors. Malt	M. C. McDonald Bottling Company.	33,812	Nov. 28	89	1858
Lithia and magnesia water	Tuckahoe Mineral Springs Company.	32,872	May 16	87	1230
Lithia spring water	Virginia Mineral Springs Company	33,443	Sept. 5	88	1895
Lithia water and ginger-ale	W. J. Atkinson	33,066	June 13	87	1956
Loom-pickers	E. H. Jacobs Manufacturing Company.	33,167	June 27	87	2321

Alphabetical list of trade-marks—Continued.

Title.	Name.	No.	Date.	Official Gazette. Vol.	Page.
Loom-pickers	E. H. Jacobs Manufacturing Company.	33,168	June 27	87	2321
Loom-temples and their parts	Draper Company	32,719	Apr. 11	87	356
Lotion. Face	Arista Manufacturing Co	33,277	July 25	88	714
Lotions and ointments. Perfumed	A. Peter & Co	32,799	May 2	87	888
Lotions. Eye	Ophthalmic Remedy Co	33,360	Aug. 15	88	1329
Lubricating compounds	A. Cook's Sons	33,919	Dec. 19	89	2458
Lumber. Artificial	O. L. Gardner	32,352	Jan. 10	86	341
Lumber. Certain named	G. Bell & Sons	33,615	Oct. 17	89	520
Lumber. Certain named	L. E. Moore & Co	33,614	Oct. 17	89	520
Lumber. Dressed	John Schroeder Lumber Company	33,639	Oct. 24	89	704
Lumber in logs and sawed	J. W. Hussey	32,718	Apr. 11	87	356
Macaroni	Canepa Brothers	33,290	Aug. 1	88	943
Macaroni	Canepa Brothers	33,291	Aug. 1	88	943
Macaroni	Canepa Bros	33,311	Aug. 8	88	1152
Macaroni	F. Romeo & Co	33,496	Sept. 26	88	2408
Machinery and parts and attachments. Certain named	Chandler & Taylor Company	33,297	Aug. 1	88	944
Machines and their parts. Certain named	Buffalo Pitts Company	32,683	Apr. 4	87	178
Machines. Certain named	Latham Machinery Company	32,913	May 16	87	1234
Machines. Certain named	Sager Gear Company	32,823	May 2	87	890
Malt extract	H. Bartels	33,592	Oct. 17	89	518
Malt extract	A. G. Hüpfel's Sons	32,810	May 2	87	889
Malted dry food extracts	W. Horlick	32,388	Jan. 17	86	487
Mandolin-picks	A. Shaeffer	33,710	Nov. 7	89	1139
Match-cases	B. I. Gilman	33,872	Dec. 12	89	2257
Matches	A. Kelley	33,328	Aug. 8	88	1154
Matches	A. Kelley	33,329	Aug. 8	88	1154
Matches	A. Kelley	33,330	Aug. 8	88	1154
Matches	A. Kelley	33,331	Aug. 8	88	1154
Matches	Swedish Match Company	32,555	Feb. 28	86	1495
Matches	Swedish Match Company	32,696	Apr. 11	87	355
Matches. Parlor	Improved Match Company	32,586	Mar. 14	86	1802
Mattresses, pillows, and feathers	Randall Mattress Company	32,585	Mar. 14	86	1802
Mattresses. Woven-wire	M. A. Hunt & Co	32,486	Feb. 7	86	994
Measuring instruments. Certain named	N. Gerber	33,955	Dec. 26	99	2652
Meat extract	Liebig's Extract of Meat Company	32,943	May 23	87	1394
Meat-packers' products. Certain named	Jacob Dold Packing Company	32,360	Jan. 10	86	342
Meats, cheese, butter, eggs, and lard	T. H. Lawry	32,603	Mar. 21	86	1979
Meats. Cured	John Morrell & Company	33,598	Oct. 17	89	519
Meats. Cured	John Morrell & Company	33,599	Oct. 17	89	519
Meats. Liquid extract of smoke for preserving	E. Krauser & Brother	33,075	June 13	87	1956
Mechanical goods. Certain named	Dermatine Company	32,716	Apr. 11	87	356
Medals and badges	College and Commissariat of the Holy Land.	33,835	Dec. 5	89	2064
Medical composition for certain named diseases	G. Grant	32,738	Apr. 18	87	511
Medical compound	Phenique Chemical Company	32,321	Jan. 3	86	179
Medical compound. Certain named	J. G. Baker	32,520	Feb. 21	86	1321
Medical compound. Certain named	A. G. Finney	33,948	Dec. 26	89	2651
Medical compound for the cure of certain named diseases	H. & H. Chemical Co	33,466	Sept. 12	88	2064
Medical compounds	G. Allen & Co	32,594	Mar. 14	86	1802
Medical compounds and applications for the skin	C. R. Burrage	33,278	July 25	88	715
Medical compounds and bitters. Certain named	A. A. Cavagnaro	32,373	Jan. 10	86	343
Medical compounds. Certain named	H. Brown	33,624	Oct. 24	89	703
Medical compounds. Certain named	P. G. Charbonnet	33,668	Oct. 31	89	917
Medical remedies. Certain named	Natchez Drug Company	33,339	Aug. 8	88	1154
Medicament. Certain named	Albemarle Chemical Co	33,060	June 13	87	1955
Medicated and other tablets and pills	J. M. Munyon	32,850	May 9	87	1071
Medicated soap	C. Bischoff & Co	32,670	Apr. 4	87	177
Medicated tablets or confections	W. C. Enck	32,651	Mar. 28	86	2169
Medicinal and chemical substances and remedies in the form of tablets, disks, and pills.	Fairchild Bros. & Foster	32,650	Mar. 28	86	2169
Medicinal and remedial sulfo compounds for internal and external use.	Dahm & Co	32,576	Mar. 7	86	1632
Medicinal antipurulent	Battle & Co., Chemists' Corporation	32,491	Feb. 14	86	1166
Medicinal antiseptic lotion for certain named diseases	Electrozone Company	32,842	May 9	87	1070
Medicinal beverage. Certain named	Star Chemical Company	33,853	Dec. 5	89	2066
Medicinal bitters	Hi-Hi Bitters Company	33,140	June 27	87	2318
Medicinal chemicals. Certain named	Firm of E. Merck	32,737	Apr. 18	87	511
Medicinal compound for certain named diseases	J. N. Greenlee	33,848	Dec. 5	89	2065
Medicinal compound for certain named diseases	E. F. Valentine	32,663	Apr. 4	87	176
Medicinal compounds and articles. Certain named	E. Wunderlich	32,318	Jan. 3	86	179
Medicinal embrocation for human use	H. A. Hoyes	32,412	Jan. 24	86	628
Medicinal herbs and medicines. Certain named	Foo & Wing Herb Co	32,561	Feb. 28	86	1496
Medicinal liquid for the lips	C. T. Kromer	32,314	Jan. 3	86	178
Medicinal oil for certain named diseases	J. H. Barnstead	33,334	Aug. 8	88	1154
Medicinal plasters	Kelley & Son	32,449	Jan. 31	86	796
Medicinal preparation for certain named diseases	J. M. Creed and W. J. Green	33,367	Aug. 15	88	1330
Medicinal preparation for certain named diseases	A. E. Larzelere	33,823	Nov. 28	89	1859
Medicinal preparation for human use	J. C. Eno, Limited	32,315	Jan. 3	86	178
Medicinal preparations	Hance Bros. & White	32,320	Jan. 3	86	179
Medicinal preparations. Certain named	A. F. Stephenson	32,760	Apr. 25	87	692
Medicinal preparations. Certain named	E. B. Turner	32,995	May 30	87	1604
Medicinal preparations. Certain named	A. W. Wilkinson	33,731	Nov. 14	89	1338
Medicinal preparations for external application	T. Patrick	33,208	July 11	88	382
Medicinal remedies. Certain named	E. L. Andrews	32,521	Feb. 21	86	1321
Medicinal soap	A. F. Richardson	33,156	June 27	87	2320
Medicinal specific for certain named diseases	Pabst Chemical Co	32,450	Jan. 31	86	796
Medicinal strengthening-plasters	Johnson & Johnson	33,150	June 27	87	2319
Medicinal tablets	A. G. Enderle	32,986	May 23	87	1393
Medicinal tablets. Certain named	Antikamnia Chemical Company	33,729	Nov. 14	89	1338
Medicinal tablets. Certain named	Antikamnia Chemical Company	33,730	Nov. 14	89	1338
Medicinal tablets for certain named diseases	Drake & Rhodes Co	32,665	Apr. 4	87	176
Medicinal tablets for certain named diseases	F. P. McClure and R. G. Wallace	33,338	Aug. 8	88	1155
Medicine. Certain named	J. T. Milliken	32,759	Apr. 25	87	692
Medicine. Certain named proprietary	O. Lillybeck	33,366	Aug. 15	88	1330
Medicine for a certain named disease	Smith, Kline & French Company	33,890	Dec. 12	89	2258

Alphabetical list of trade-marks—Continued.

Title.	Name.	No.	Date.	Official Gazette. Vol.	Page.
Medicine for a certain named disease	Smith, Kline & French Company	33,891	Dec. 12	89	2258
Medicine for certain named diseases	W. O. and R. G. Barclay	33,142	June 27	87	2319
Medicine for certain named diseases	Cin-Co-Lery Co	32,374	Jan. 10	86	343
Medicine for certain named diseases	Expello Manufacturing Co	33,098	June 20	87	2115
Medicine for certain named diseases	Fruitcin Company	32,733	Apr. 18	87	511
Medicine for certain named diseases	Fruitcin Company	32,734	Apr. 18	87	511
Medicine for certain named diseases	Marble City Drug Manufacturing Company.	32,932	May 23	87	1393
Medicine for certain named diseases	W. C. Ramsey	32,933	May 23	87	1393
Medicine for certain named diseases	Yohn Chemical Company of Baltimore City.	33,822	Nov. 28	89	1859
Medicine for certain named diseases. Herbal	W. Webber	33,516	Oct. 3	89	187
Medicine for certain named diseases. Proprietary	Micajah & Co	33,824	Nov. 28	89	1859
Medicine for cure of rheumatism and kidney and liver diseases.	H. Denn	32,710	Apr. 11	87	356
Medicine for diseases of live stock	L. Hagadorn	33,479	Sept. 19	88	2239
Medicine for growing hoofs on horses	W. Haystead	33,206	July 11	88	382
Medicine for lung diseases	Baiss Brothers & Stevenson	33,623	Oct. 24	89	702
Medicine for neurotic diseases	C. W. Parrish	32,393	Jan. 17	86	487
Medicine for purifying the blood	H. H. Gwinn	32,395	Jan. 17	86	487
Medicine for the cure of grip and rheumatism	C. N. Edwards	32,664	Apr. 4	87	176
Medicine. Liver	E. W. Gazley	33,145	June 27	87	2319
Medicine. Tonic	L. R. Baridon	33,369	Aug. 15	88	1330
Medicines and toilet preparations. Proprietary	L. H. Wells	32,524	Feb. 21	86	1321
Medicines. Certain named	H. S. Chipman	33,540	Oct. 10	89	350
Medicines. Certain named	Dunkley Celery and Preserving Company.	32,731	Apr. 18	87	511
Medicines. Certain named	Madison Medicine Company	33,192	July 4	88	189
Medicines. Certain named	J. M. Munyon	32,453	Jan. 31	86	796
Medicines. Certain named	M. J. Treadway	32,841	May 9	87	1070
Medicines. Certain named	G. W. Van Vredenburgh	33,144	June 27	87	2319
Medicines. Certain named proprietary	Krato Chemical Company	32,394	Jan. 17	86	487
Medicines. Ferruginous	M. Leprince	32,761	Apr. 25	87	692
Medicines for certain named diseases	F. P. Brossart	32,735	Apr. 18	87	511
Medicines for certain named diseases	W. R. Brown	33,097	June 20	87	2115
Medicines for certain named diseases	Chemische Fabrik Sulzbach, Gesellschaft mit Beschränkter Haftung.	32,887	May 16	87	1231
Medicines for certain named diseases	J. F. Kiedaisch, Sr	33,335	Aug. 8	88	1154
Medicines for certain named diseases	H. H. Mason	33,667	Oct. 31	89	917
Medicines for certain named diseases	C. H. Munson	33,467	Sept. 12	88	2064
Medicines for certain named diseases	C. H. Murphey	33,336	Aug. 8	88	1155
Medicines for certain named diseases	C. R. Pue	33,207	July 11	88	382
Medicines for internal and external application	Manila Drug Company	33,916	Dec. 19	89	2458
Medicines. Herbal	G. W. Johnston	33,950	Dec. 26	89	2651
Medicines in lozenge and liquid form	H. C. Holtin	33,690	Nov. 7	89	1137
Medicines. Rheumatism and gout	Anti Gout and Rheumatism Co	32,481	Feb. 7	86	994
Mercerized cotton fabric	J. Maddocks	33,723	Nov. 14	89	1337
Metal	H. Channon Company	33,792	Nov. 21	89	1667
Metal. Antifriction	Glyco-Metall-Gesellschaft	32,427	Jan. 24	86	630
Metal. Antifriction and Babbitt	Findlay & Battle	33,608	Oct. 17	89	520
Metal. Babbitt	Kinsey & Mahler Company	33,633	Oct. 24	89	704
Metal-polish	C. Rath	32,332	Jan 3	86	180
Metals. Certain named	I. Shonberg	33,527	Oct. 3	89	188
Mica for insulating purposes	W. H. Sills Mica Company	32,346	Jan. 10	86	341
Milk. Condensed	J. Butler	32,812	May 2	87	889
Milk. Condensed	J. Butler	32,883	May 16	87	1231
Milk. Condensed	Consumers Preserved Milk Company.	32,605	Mar. 21	86	1980
Milk. Condensed	Consumers Preserved Milk Company.	33,459	Sept. 12	88	2063
Milk. Condensed	Consumers Preserved Milk Company.	33,656	Oct. 31	89	916
Milk. Condensed	Firm of H. Nestlé	32,742	Apr. 18	87	512
Milk. Condensed	Firm of H. Nestlé	32,813	May 2	87	890
Milk. Condensed	Firm of H. Nestlé	33,322	Aug. 8	88	1153
Milk. Condensed	Firm of H. Nestlé	33,323	Aug. 8	88	1153
Milk. Condensed	Wisconsin Condensed Milk Company.	33,267	July 25	88	713
Milk. Condensed	Wisconsin Condensed Milk Company.	33,268	July 25	88	713
Milk food. Fermented	M. G. Dadirrian	33,218	July 11	88	383
Milk. Sterilized	Anglo-Swiss Condensed Milk Company, New York.	33,413	Aug. 29	88	1700
Milk with phosphates and hypophosphates added. Condensed	D. B. Hand	33,071	June 13	87	1956
Mills and machines. Certain named	C. N. McLaughlin	32,684	Apr. 4	87	178
Mineral water	E. Arger	33,657	Oct. 31	89	916
Mineral water	Duquesne Distributing Co	32,873	May 16	87	1230
Mineral water	J. Rubino	33,414	Aug. 29	88	1700
Mineral water	J. Rubino	33,415	Aug. 29	88	1700
Mineral water. Natural	Kronthal Company	32,671	Apr. 4	87	177
Mineral water. Natural	Kronthal Company	32,672	Apr. 4	87	177
Mineral water. Natural	Kronthal Company	32,673	Apr. 4	87	177
Mineral waters	Irondale Spring Water Company	32,839	May 9	87	1070
Mineral waters and carbonated beverages	J. Ries	32,647	Mar. 28	86	2169
Miners' supplies. Certain named	Martin Hardsocg Manufacturing Company.	33,224	July 11	88	384
Mouth-wash	J. E. Blauvelt	33,096	June 20	87	2115
Mowing or reaping machinery	Adriance, Platt & Company	32,781	Apr. 25	87	694
Music. Sheet	J. W. Stern & Co	32,597	Mar. 21	86	1979
Musical instruments and sheet-music	E. Sorrentino	33,450	Sept. 12	88	2063
Musical instruments and strings for same. Certain named stringed	Lyon & Healy	33,868	Dec. 12	89	2256
Musical instruments and their accessories	Geo. Borgfeldt & Company	33,112	June 27	87	2316
Musical instruments. Automatically-operated	American Automusic Company	33,569	Oct. 17	89	516

Alphabetical list of trade-marks—Continued.

Title.	Name.	No.	Date.	Official Gazette. Vol.	Page.
Musical instruments, sheet and book music, and note sheets, rolls, and cylinders. Certain named	Menzenhauer & Schmidt	33,176	July 4	88	188
Musical instruments. Wire strings for	Felten & Guilleaume	33,506	Oct. 3	89	186
Needles	T. Harper	33,230	July 18	88	542
Needles, fishhooks, bodkins, crochet-hooks, and pins	A. Wilkes	33,620	Oct. 24	89	702
Needles, fishhooks, bodkins, crochet-hooks, and pins	A. Wilkes	33,621	Oct. 24	89	702
Non-conducting material for making certain named articles	Firm of C. Sequin-Bronner	33,471	Sept. 12	88	2064
Non-heat-conducting materials. Certain named	W. B. Morgan	32,334	Jan. 3	86	180
Nut food	Atlantic Peanut Refinery	33,856	Dec. 5	89	2066
Nutritive compound	F. W. R. Eschmann	32,389	Jan. 17	86	487
Oat food	Pillsbury-Washburn Flour Mills Company.	33,558	Oct. 10	89	351
Oat food	Pillsbury-Washburn Flour Mills Company.	33,559	Oct. 10	89	351
Oat food	Pillsbury-Washburn Flour Mills Company.	33,560	Oct. 10	89	351
Oat food	Pillsbury-Washburn Flour Mills Company.	33,561	Oct. 10	89	351
Oat food	Pillsbury-Washburn Flour Mills Company.	33,933	Dec. 26	89	2649
Oat food	Pillsbury-Washburn Flour Mills Company.	33,934	Dec. 26	89	2649
Oat food	Pillsbury-Washburn Flour Mills Company.	33,935	Dec. 26	89	2649
Oat food	Pillsbury-Washburn Flour Mills Company.	33,936	Dec. 26	89	2650
Oat food	Pillsbury-Washburn Flour Mills Company.	33,937	Dec. 26	89	2650
Oats and oatmeal. Rolled	H. R. Heath & Sons	33,497	Sept. 26	88	2408
Oats. Compressed rolled	Akron Cereal Company	32,568	Mar. 7	86	1631
Oatmeal, including rolled or ground oats	H-O (Hornby's Oatmeal) Company.	32,325	Jan. 3	86	179
Oil-cans	Marion Fruit Jar and Bottle Company.	33,256	July 18	88	544
Oil. Cylinder	W. D. Halsted	33,562	Oct. 10	89	352
Oil. Illuminating	Red "C" Oil Manufacturing Company.	32,678	Apr. 4	87	177
Oil. Illuminating	Thomsen & Co	33,708	Nov. 7	89	1139
Oil. Illuminating	Union Chemical Company	32,534	Feb. 21	86	1322
Oil. Lubricating and machine	Kates & Bok	33,787	Nov. 21	89	1667
Oil. Machine	G. T. Robie	32,679	Apr. 4	87	178
Oil. Olive	G. Marchesini	32,330	Jan. 3	86	180
Oil. Olive	Seville Packing Company	32,570	Mar. 7	86	1631
Oil. Tasteless castor	Scott & Co	33,099	June 20	87	2115
Oils	Vacuum Oil Company	32,368	Jan. 10	86	343
Oils and lubricants. Certain named	Lion & Co	33,563	Oct. 10	89	352
Oils and other hydrocarbons. Mineral	"Sirius" Luftgas-Automaten-Gesellschaft Hamburg, mit Beschränkter Haftung.	32,547	Feb. 28	86	1495
Oils for certain named purposes	A. Bell	33,943	Dec. 26	89	2650
Oils. Harness, axle, and hoof	P. T. George, Jr	32,591	Mar. 14	86	1802
Oils. Lubricating	Pittsburgh and Philadelphia Oil and Refining Company.	33,671	Oct. 31	89	917
Oils. Lubricating	Vacuum Oil Company	32,592	Mar. 14	86	1802
Oils. Lubricating	Vacuum Oil Company	32,593	Mar. 14	86	1802
Oils. Lubricating	Vacuum Oil Company	32,900	May 16	87	1232
Oils. Lubricating	Vacuum Oil Company	33,670	Oct. 31	89	917
Oils. Lubricating	Vacuum Oil Company	33,707	Nov. 7	89	1139
Oils. Petroleum	Pennsylvania and Delaware Oil Company.	32,390	Jan. 17	86	487
Ointment	G. F. Harvey Company	32,376	Jan. 10	86	344
Ointment	C. S. Hillabrandt	33,770	Nov. 21	89	1665
Ointment for certain named diseases	Derma Therapia Co	33,370	Aug. 15	88	1330
Ointment or salve	J. Simonson	33,544	Oct. 10	89	350
Ointments	W. B. Smith	33,735	Nov. 14	89	1338
Olives	Ehmann Olive Company	33,213	July 11	88	383
Olives	Seville Packing Company	33,883	Dec. 12	89	2257
Optical goods. Certain named	American Optical Company	32,787	May 2	87	887
Ovens. Portable	H. Adler Co	33,796	Nov. 21	89	1668
Overshirts	Oppenheim, Oberndorf & Co	33,113	June 27	87	2316
Overshirts	E. Rosenfeld & Co	33,574	Oct. 17	89	517
Overshoes known in the trade as arctics	Joseph Banigan Rubber Company	33,719	Nov. 14	89	1337
Packing. Machinery	Montgomery Brothers	33,196	July 4	88	190
Packings	Crandall Packing Company	32,487	Feb. 7	86	994
Paint. Certain named	Carbolineum Wood Preserving Company.	33,006	May 30	87	1605
Paint. Coach and carriage	Mound City Paint and Color Company.	33,921	Dec. 19	89	2458
Paint. Heat, water, and fire proof	Pyro Paint Company	32,902	May 16	87	1233
Paint. House	Hanna Paint Manufacturing Company.	33,788	Nov. 21	89	1667
Paint-oils and paints	Columbia Refining Co	33,706	Nov. 7	89	1139
Paint pigments	Lowe Brothers Company	33,862	Dec. 5	89	2066
Paint. Waterproof	J. C. Oeters	32,425	Jan. 24	86	630
Paints	New Jersey Enamel Paint Company	32,747	Apr. 18	87	512
Paints	New Jersey Enamel Paint Company	33,162	June 27	87	2321
Paints	R. F. Seaman	33,255	July 18	88	544
Paints and fresco coloring	J. P. R. James	33,861	Dec. 5	89	2066
Paints and painters' supplies. Certain	Lewis Berger & Sons	33,101	June 20	87	2115
Paints and painters' supplies. Certain	Lewis Berger & Sons	33,102	June 20	87	2115
Paints and painters' supplies. Certain named	R. McWilliams, Limited	32,852	May 9	87	1071
Paints, calcimines, and pigments	G. S. Adams	33,161	June 27	87	2321
Paints. Certain named	A. A. Eberson	32,513	Feb. 21	86	1320
Paints ground in oil	Mound City Paint and Color Company.	33,673	Oct. 31	89	918
Paints, lubricants, and cements	Detroit Graphite Manufacturing Company.	32,714	Apr. 11	87	356

Alphabetical list of trade-marks—Continued.

Title.	Name.	No.	Date.	Official Gazette. Vol.	Page.
Paints, oils, and varnishes	Pimbley Paint and Glass Company	32,901	May 16	87	1232
Paints, varnishes, and lacquers, including aluminium and other bronzes.	Permanoid Company	33,222	July 11	88	384
Painters' supplies. Certain named	Aktiengesellschaft für Asphaltirung und Dachbedeckung, vormals J. Jeserich.	33,481	Sept. 19	88	2239
Paper	Cordorus Paper Mills	32,859	May 16	87	1229
Paper and envelops. Note-	Ph. Hake Manufacturing Company	33,503	Oct. 3	89	186
Paper and envelops. Writing-	G. B. Hurd & Co	33,582	Oct. 17	89	517
Paper and envelops. Writing-	M. Ward Co	32,921	May 23	87	1392
Paper and envelops. Writing-	M. Ward Co	33,392	Aug. 22	88	1523
Paper bags. Certain named	S. Nusbaum	33,583	Oct. 17	89	517
Paper. Carbon-	Mittag & Volger	33,832	Dec. 5	89	2064
Paper. Carbon-	Tower Manufacturing and Novelty Company.	33,833	Dec. 5	89	2064
Paper. Certain named	H. Lindenmeyr & Sons	33,805	Nov. 28	89	1859
Paper. Certain sizing material used in manufacturing	C. C. Hovey and O. L. Crumb	33,819	Nov. 28	89	1857
Paper cleaners. Certain named wall-	G. P. Jaeckels	33,333	Aug. 8	88	1154
Paper. Colored writing-	H. Lindenmeyr & Sons	33,530	Oct. 10	89	349
Paper for ticket-making purposes	A. J. Smith	32,965	May 30	87	1602
Paper. Linen writing-	H. Lindenmeyr & Sons	33,684	Nov. 7	89	1137
Paper. Low-grade writing-	H. Lindenmeyr & Sons	33,685	Nov. 7	89	1137
Paper. Photographic	H. Kuhn	33,725	Nov. 14	89	1337
Paper. Photographic-printing	Western Camera Manufacturing Company.	33,726	Nov. 14	89	1337
Paper. Printing-out	Eastman Kodak Company	32,489	Feb. 14	86	1166
Paper. Sensitized	Haller, Kemper Company	33,409	Aug. 29	88	1700
Paper. Wall-	A. Peats & Co	33,724	Nov. 14	89	1337
Papers. Carbon-	Mittag & Volger	33,869	Dec. 12	89	2256
Papers. Certain named	Dill & Collins	33,804	Nov. 28	89	1857
Papers. Certain named	James R. Crompton & Brothers	32,922	May 23	87	1392
Pastils. Dyspepsia-	Rotkowitz Bros	33,425	Aug. 29	88	1701
Patterns. Garment-	Standard Fashion Company	33,617	Oct. 24	89	702
Pea and bean hullers	J. M. Sanders	33,432	Aug. 29	88	1702
Peanut-butter	Peanolia Food Company	32,588	Mar. 14	86	1802
Pencils and fountain-pens. Lead-	Tower Manufacturing and Novelty Company.	32,920	May 23	87	1392
Pens	D. Leonardt & Co	32,598	Mar. 21	86	1979
Pens	F. Pratt, Jr	32,488	Feb. 14	86	1166
Pens	Spencerian Pen Company	32,661	Apr. 4	87	176
Pens	Turner & Harrison	32,788	May 2	87	887
Pens. Fountain-	E. Todd & Co	33,475	Sept. 19	88	2239
Pens. Metallic	Eagle Pencil Company	33,200	July 11	88	382
Pens. Metallic	Esterbrook Steel Pen Manufacturing Company.	32,919	May 23	87	1392
Pens. Steel	Ormiston & Glass	33,014	June 6	87	1777
Pens. Stylographic and fountain	J. Ullrich & Co	32,721	Apr. 18	87	510
Perfume	C. A. Jerman and O. Kuehmsted	30,871	May 16	87	1230
Perfumed ribbons	Hamburger & Company	32,627	Mar. 28	86	2167
Perfumed ribbons	Hamburger & Company	32,690	Apr. 11	87	354
Perfumery	Firm of A. Wright	32,720	Apr. 18	87	510
Perfumery	Frederick Stearns & Company	32,758	Apr. 25	87	692
Perfumes	Actien-Gesellschaft für Anilin-Fabrikation.	33,153	June 27	87	2320
Perfumes	Actien-Gesellschaft für Anilin-Fabrikation.	33,154	June 27	87	2320
Perfumes	Mellier Drug Company	33,094	June 20	87	2114
Perfumes	Mellier Drug Company	33,095	June 20	87	2114
Perfumes and soaps	L. T. Piver & Cie	33,914	Dec. 19	89	2458
Perfumes in certain named forms. Breath-	T. M. Hyneman	33,424	Aug. 29	88	1701
Perfumes, toilet waters, and colognes	Ladd & Coffin	33,027	June 6	87	1778
Periodical paper. Monthly	A. D. Porter Company	32,432	Jan. 31	86	794
Pharmaceutical and dietetical preparation	Farbenfabriken of Elberfeld Company.	33,913	Dec. 19	89	2458
Pharmaceutical compound. Certain named	Farbenfabriken of Elberfeld Company.	33,893	Dec. 12	89	2258
Pharmaceutical preparations	Day & Weller	33,850	Dec. 5	89	2065
Phonographs and phonographic supplies	National Phonograph Company	33,015	June 6	87	1777
Phonographs, their parts, and supplies	National Phonograph Company	33,236	July 18	88	542
Photographers' supplies. Certain named	W. F. Carlton	33,641	Oct. 31	89	915
Photographic and optical purposes. Lenses for	Photo-Optical Co	32,541	Feb. 28	86	1494
Photographic developers	Actien-Gesellschaft für Anilin Fabrikation.	33,417	Aug. 29	88	1700
Photographic developers	Actien-Gesellschaft für Anilin Fabrikation.	33,418	Aug. 29	88	1701
Photographic developers	Chemische Fabrik auf Actien, (vorm. E. Schering.)	33,504	Oct. 3	89	186
Photographic developers	J. Hauff & Company, Gesellschaft mit Beschränkter Haftung.	33,016	June 6	87	1777
Photographic developers	J. Hauff & Company, Gesellschaft mit Beschränkter Haftung.	33,017	June 6	87	1777
Photographs, chromos, and plaques in colors	Société Anonyme des Plaques et Papiers Photographiques, A. Lumière & Ses Fils.	32,685	Apr. 11	87	354
Photography. Portraits by	G. W. Leeds	33,473	Sept. 19	88	2239
Pianoforte-strings	R. C. Koch	33,386	Aug. 15	88	1332
Pianos and self-playing attachments for pianos	Pianophone Company	32,342	Jan. 10	86	340
Pianos and their parts	Chickering & Sons	32,776	Apr. 25	87	693
Pigments. Certain named white	N. Z. Graves & Company	33,704	Nov. 7	89	1139
Pigments. Certain named white	N. Z. Graves & Company	33,705	Nov. 7	89	1139
Pills	S. Bassett	33,665	Oct. 31	89	917
Pills	La Compagnie des Granules Le Moyne.	33,341	Aug. 8	88	1155
Pills and liquid laxatives	A. Peter & Co	32,798	May 2	87	888
Pills for certain named diseases	W. O. and R. G. Barclay	33,280	July 25	88	714
Pills. Kidney	D. Mortimer	33,666	Oct. 31	89	917

Alphabetical list of trade-marks—Continued.

Title.	Name.	No.	Date.	Official Gazette. Vol.	Page.
Pills. Liver-	C. D. Higgins	33,394	Aug. 22	88	1523
Pills. Tonic	Dad Chemical Company	33,826	Nov. 28	89	1859
Pills, tonics, ointments, or lotions	A. Peter & Co	32,800	May 2	87	888
Pipe cutters. Metal-	Estate of E. F. Barnes	33,228	July 11	88	384
Planters, drills, and harrows. Corn-	D. M. Sechler Carriage Company	33,637	Oct. 24	89	704
Plasters for corns and bunions	Probus Remedy Co	33,049	June 6	87	1780
Plasters. Porous	J. B. Neal	33,689	Nov. 7	89	1137
Plastic building material	American Monolith Company	32,794	May 2	87	888
Plows	South Bend Iron Works	32,914	May 16	87	1234
Plows and parts of same. Rotary-disk	Spalding-Robbins Disc Plow Company.	33,408	Aug. 22	88	1524
Plows and their parts	Gale Manufacturing Company	32,402	Jan. 17	86	488
Plows and their parts	South Bend Iron Works	32,429	Jan. 24	86	630
Plows and their parts	South Bend Iron Works	32,430	Jan. 24	86	630
Plows and their parts	Syracuse Chilled Plow Company	32,507	Feb. 14	86	1168
Plows and their parts	Syracuse Chilled Plow Company	32,596	Mar. 14	86	1802
Plows and their parts	Wiard Plow Company	32,461	Jan. 31	86	796
Plumbers' goods and supplies and sanitary specialties. Certain named	Ideal Manufacturing Company	33,759	Nov. 14	89	1340
Plumbers' supplies. Certain named	Columbus Brass Company	33,407	Aug. 22	88	1524
Plumbing fixtures. Certain named	Kenney Company	33,829	Nov. 28	89	1860
Plushes	Salts Textile Manufacturing Company.	32,537	Feb. 28	86	1494
Poison, poison-paper, and poison-plates. Insect-	J. Hungerford Smith Company	32,712	Apr. 11	87	356
Poisons for animals. Certain named	L. C. Wedgefuth	32,579	Mar. 7	86	1632
Polish	J. L. Prescott & Co	32,676	Apr. 4	87	177
Polish for leather, metal, or wood	Lane & Fitte	32,793	May 2	87	888
Polish. Liquid	Carter Chemical Company	32,795	May 2	87	888
Polishes for stoves and other articles of metal	Leutschner Bros	33,791	Nov. 21	89	1667
Polishing compounds. Certain named	National Polish Manufacturing Company.	33,160	June 27	87	2321
Polishing compounds. Certain named	National Polish Manufacturing Company.	33,920	Dec. 19	89	2458
Polishing compounds. Liquid	A. M. Waitt	33,005	May 30	87	1605
Polishing preparations and materials	Terezol Company	33,294	Aug. 1	88	944
Potato chips	New England Supply Co	33,694	Nov. 7	89	1138
Pottery. Certain named	Grueby Faience Company	33,905	Dec. 19	89	2457
Powder for destroying insects	J. Maddocks	32,448	Jan. 31	86	796
Powder for the extermination of insects and vermin. Certain	J. H. Conley	32,653	Mar. 28	86	2169
Powder. Poultry-	A. A. Wells	33,889	Dec. 12	89	2258
Powders for perspiring skin	Chemische Fabrik Dahme, Dr. Foerster & Sauermann.	33,772	Nov. 21	89	1665
Powders. Hog, chicken, and cattle	A. A. Gery	32,796	May 2	87	888
Powdered or pulverized material. Dry	W. M. Newton	33,607	Oct. 17	89	520
Precious stones and semiprecious stones	C. F. Wood & Co	33,807	Nov. 28	89	1858
Preparations for certain named diseases. Proprietary	Mack & Co	33,337	Aug. 8	88	1155
Preparations for the mouth and teeth	Woodman, Davis & Co	32,702	Apr. 11	87	355
Printers. Make-ready fabric for	Tympalyn Company	33,870	Dec. 12	89	2256
Prints. Art	Curtis & Cameron	33,579	Oct. 17	89	517
Prints. Art	Curtis & Cameron	33,580	Oct. 17	89	517
Provisions. Certain named	C. M. Aikman	33,816	Nov. 28	89	1858
Provisions. Certain named	L. Stutz & Sons	32,418	Jan. 24	86	629
Provisions. Certain named	L. Stutz & Sons	32,419	Jan. 24	86	629
Provisions. Certain named	Swift & Company	32,420	Jan. 24	86	620
Provisions. Dried and canned	W. B. Dudley	32,358	Jan. 10	86	342
Publications	American 3 Color Company	33,175	July 4	88	188
Pumps. Piston-	U. S. Wind Engine and Pump Company.	33,197	Juiy 4	88	190
Pumps. Water-	Trahern Pump Company	33,794	Nov. 21	89	1667
Puzzle	W. H. Denson	32,624	Mar. 28	86	2167
Puzzles. Certain named	Hyland Manufacturing Company	33,474	Sept. 19	88	2239
Rail-bonds	Forest City Electric Company	32,782	Apr. 25	87	694
Railway-guides	J. R. Cavanagh and S. A. Townsend	33,410	Aug. 29	88	1700
Razor-strops. Leather	R. O. Beswick & Co	32,382	Jan. 17	86	486
Razors	S. Elias	33,711	Nov. 7	89	1139
Refrigerators	Maine Manufacturing Co	32,506	Feb. 14	86	1168
Relish for cold meats and salads	Schmidt-Thies Pure Food Co	33,498	Sept. 26	88	2408
Relishes. Certain named	Hahne & Co	32,363	Jan. 10	86	342
Relishes, fruits, and vegetables. Certain named	E. C. Flaccus Company	33,884	Dec. 12	89	2257
Remedial agents, including cathartics and blood-purifiers	G. F. Terry	32,993	May 30	87	1604
Remedies. Blood-purifying	Heather Bloom Co	32,992	May 30	87	1604
Remedies. Catarrh	E. Taeschner	33,821	Nov. 28	89	1859
Remedies. Certain named	Trench's Remedies	33,058	June 13	87	1955
Remedies. Chemical and pharmaceutical	Nicolay & Co	33,427	Aug. 29	88	1701
Remedies. Chemical and pharmaceutical	M. R. Zaegel	33,543	Oct. 10	89	350
Remedies. External	Medomak Chemical Company	33,061	June 13	87	1955
Remedies. Foot	Cole's Cedar Créme Co	33,395	Aug. 22	88	1523
Remedies for a certain named disease	Shafer & Bradrick	32,804	May 2	87	889
Remedies for bronchial affections	J. Wertheim	32,410	Jan. 24	86	628
Remedies for certain named diseases	E. N. Brown	32,666	Apr. 4	87	176
Remedies for certain named diseases	A. L. Cole	33,669	Oct. 31	89	917
Remedies for certain named diseases	Firm of C. Raspe	33,281	July 25	88	714
Remedies for certain named diseases	Hance Bros. & White	33,517	Oct. 3	89	187
Remedies for certain named diseases	T. J. Hill	33,198	July 4	88	189
Remedies for certain named diseases	L. A. Mackintosh	33,767	Nov. 21	89	1664
Remedies for certain named diseases	J. A. Monger	33,478	Sept. 19	88	2239
Remedies for certain named diseases	Reuter Medicine Co	32,732	Apr. 18	87	511
Remedies for coughs, colds, headaches, and la grippe	Paris Medicine Company	32,803	May 2	87	889
Remedies for diseases of the kidneys and liver	G. L. Lord	33,691	Nov. 7	89	1137
Remedies in powdered form for certain named diseases	Vitapura Company	33,825	Nov. 28	89	1859
Remedies in tablet and pill form for certain named diseases	F. U. Kahle	33,520	Oct. 3	89	187
Remedies. Live-stock	J. B. Shook	32,662	Apr. 4	87	176
Remedies. Pile	Kam-Ren Medicine Company	33,664	Oct. 31	89	917
Remedy Dyspepsia	J. G. Vetter & Co	33,519	Oct. 3	89	187
Remedy for all effects of a disordered stomach	I. Ellinger	32,709	Apr. 11	87	356

Alphabetical list of trade-marks—Continued.

Title.	Name.	No.	Date.	Official Gazette. Vol.	Page.
Remedy for anemia	N. Reveron	32,492	Feb. 14	86	1166
Remedy for certain named diseases	Chemisch-Technisches Laboratorium von Dr. Israel Roos.	33,622	Oct. 24	89	702
Remedy for certain named diseases	Eumetra Pharmacal Co	32,847	May 9	87	1071
Remedy for certain named diseases	J. Fougerat	32,888	May 16	87	1231
Remedy for certain named diseases	E. W. Hall	32,845	May 9	87	1071
Remedy for certain named diseases	G. E. Hunt	32,392	Jan. 17	86	487
Remedy for certain named diseases	E. Kuntz	32,935	May 23	87	1393
Remedy for certain named diseases	M. Leprince	33,541	Oct. 10	89	350
Remedy for certain named diseases	Newark Drug and Chemical Co	32,890	May 16	87	1231
Remedy for certain named diseases	Pepsin-Seltzer Drug and Chemical Company of Baltimore City.	32,891	May 16	87	1232
Remedy for certain named diseases	J. W. Roberts	32,844	May 9	87	1071
Remedy for certain named diseases	L. A. Robison	32,991	May 30	87	1604
Remedy for certain named diseases	J. W. Searles	32,889	May 16	87	1231
Remedy for certain named diseases	T. Sheldon	33,768	Nov. 21	89	1664
Remedy for certain named diseases	J. D. Wilson and W. T. Thompson	33,143	June 27	87	2319
Remedy for certain named diseases	S. L. Wortmann	33,542	Oct. 10	89	350
Remedy for certain named diseases of cattle	O. O. Hattervig	33,847	Dec. 5	89	2065
Remedy for certain named diseases of the respiratory organs.	G. Mayo	32,319	Jan. 3	86	179
Remedy for certain named injuries and diseases. Topical	C. B. Tippett	32,934	May 23	87	1393
Remedy for colds	H. A. Dudley	32,708	Apr. 11	87	356
Remedy for corns, bunions, and ingrown nails	Hydro Caffeine Co	32,411	Jan. 24	86	628
Remedy for dropsy	E Henke	33,426	Aug. 29	88	1701
Remedy for drunkenness or inebriety	W. P. Lynch	32,316	Jan. 3	86	179
Remedy for hog-cholera	F. C. Decker	32,560	Feb. 28	86	1496
Remedy for nervous diseases and general debility. Food	J. Robertson	33,769	Nov. 21	89	1664
Remedy for phthisis	F. Hoffmann-La Roche & Cie	32,563	Feb. 28	86	1496
Remedy for prevention and cure of hog-cholera	H. E. Johnson	33,468	Sept. 12	88	2064
Remedy for purifying blood	Weber's Medical Tea Co	32,730	Apr. 18	87	510
Remedy for rheumatism	A. E. Masur	33,241	July 18	88	543
Remedy for rheumatism and headache	A. J. Shepard	32,562	Feb. 28	86	1496
Remedy for seasickness and car sickness	L. H. Hammond	32,519	Feb. 21	86	1321
Remedy for seasickness. Certain	J. G. J. Mumler	33,368	Aug. 15	88	1330
Remedy for skin eruptions	Goodwill Chemical Company	33,842	Dec. 5	89	2065
Remedy. Hair	Newbro Drug Company	33,587	Oct. 17	89	518
Remedy. Liver	S. A. Simmons	32,843	May 9	87	1071
Remedy. Pile	H. W. Henshaw	33,194	July 4	88	190
Remedy. Teething	J. B. de Beer	33,895	Dec. 12	89	2258
Revulsive pencils against certain named diseases	G. P. D. Coirre	32,707	Apr. 11	87	355
Rheumatism. Preparation for the cure of	M. R. Garcia	33,692	Nov. 7	89	1137
Ribbons	W. Openhym & Sons	32,310	Jan. 3	86	178
Ribbons. Certain named	H. W. Kemna	32,338	Jan. 10	86	340
Ribbons. Silk	Ashley & Bailey Company	32,968	May 30	87	1602
Rice-powder, rice-starch powder, starch, and starch-powder	Hoffmann's Stärkefabriken	32,700	Apr. 11	87	355
Riding-habits and hunting-skirts	O. Carlson	32,659	Apr. 4	87	176
Rifles and spring-guns. Air-	Crescent Gun Company	33,493	Sept. 19	88	2240
Rings	A. A. Caille	33,567	Oct. 17	89	516
Rings	F. H. Sadler & Co	32,408	Jan. 24	86	628
Roofing fabrics	R. J. Redick	32,632	Mar. 28	86	2167
Roofing materials. Flexible	F. W. Bird & Son	33,259	July 18	88	544
Rope, cord, twine, and combed hemp	John Good & Jennings Patent Machine Cordage Company.	33,648	Oct. 31	89	915
Rope-dressing	H. Channon Company	33,923	Dec. 19	89	2458
Rubber belting	Jeffrey Manufacturing Company	33,756	Nov. 14	89	1340
Rubber boots	Goodyear Rubber Company	33,575	Oct. 17	89	517
Rubber boots and shoes	Lambertville Rubber Company	32,405	Jan. 24	86	628
Rubber boots and shoes	Lambertville Rubber Company	32,406	Jan. 24	86	628
Rubber boots and shoes	C. W. Linthicum	32,512	Feb. 21	86	1320
Rubber. Chemical composition, a substitute for hard	Stahl & Straub	33,275	July 25	88	714
Rubber footwear. Certain named	Monarch Rubber Company	33,803	Nov. 28	89	1857
Rubber gloves. Seamless	Miller Rubber Manufacturing Company.	32,379	Jan. 17	86	486
Rubber goods. Manufactured	Victor Rubber Company	32,565	Mar. 7	86	1631
Rubber heels or soles	W. G. Grieb	32,755	Apr. 25	87	691
Rubber shoes. Certain named	Joseph Banigan Rubber Company	33,354	Aug. 15	88	1329
Rubber soles for boots and shoes	F. W. Whitcher & Co	33,178	July 4	88	188
Rules. Edgewise-folding	Stanley Rule and Level Company	33,953	Dec. 26	89	2652
Rules. Edgewise-folding	Stanley Rule and Level Company	33,954	Dec. 26	89	2652
Saddle-housings, saddle-pads, and horse-clothing	Smith, Worthington & Co	32,693	Apr. 11	87	354
Saddle-housings, saddle-pads, and horse-clothing	Smith, Worthington & Co	32,694	Apr. 11	87	355
Saddlery and harness, including other named articles for horses.	Smith, Worthington & Co	32,726	Apr. 18	87	510
Salmon	Warren Packing Company	33,777	Nov. 21	89	1665
Salmon. Tinned	Richard B. Green & Company	32,602	Mar. 21	86	1979
Salmon. Tinned	Richard B. Green & Company	33,183	July 4	88	189
Salt	Wadsworth Salt Company	33,158	June 27	87	1604
Salt. Table-	Diamond Crystal Salt Company	33,464	Sept. 12	88	2064
Salts	H. E. Gourd	32,613	Mar. 21	86	1980
Salve	A. W. Howell	32,574	Mar. 7	86	1632
Salve. Eye-	B. Kahabka	32,762	Apr. 25	87	2320
Salve, pile remedy, and cough cure. Eye-	Howard Bros	32,375	Jan. 10	86	344
Salves	J. W. Goslin	33,918	Dec. 19	89	2458
Salves	J. Maurer	33,048	June 6	87	692
Salves and ointments	H. R. Gault	32,780	Apr. 25	87	1779
Salves and ointments	Morris Ointment Co	32,413	Jan. 24	86	629
Salves for certain named diseases	Foley & Company	32,655	Mar. 28	86	2170
Salves, ointments, and lotions	H. K. Clark	32,398	Jan. 17	86	488
Sanitary lotions for toilet purposes	E. E. Sherwood and L. B. Switzer	32,313	Jan. 3	86	178
Sanitary supples. Certain named	C. M. Hobby	33,828	Nov. 28	89	1860
Saws	Peña Bros	32,857	May 9	87	694
Saws. Hack-	Rival Saw Manufacturing Company of New Jersey.	32,987	May 30	87	1072
Scales	Buffalo Scale Company	32,821	May 2	87	890
Schnapps. Aromatic Schiedam	J. B. Wolfe	33,783	Nov. 21	89	1666

Alphabetical list of trade-marks—Continued.

Title.	Name.	No.	Date.	Official Gazette. Vol.	Page.
Scissors	H. Newman	33,500	Sept. 26	88	2408
Scissors	H. Newman	33,501	Sept. 26	88	2408
Scouring compound	Bond's Soap Company	33,063	June 13	87	1955
Scouring compound	Sapotoxin Manufacturing Co	32,898	May 16	87	1232
Seed. Clover-	E. W. Conklin & Son	33,876	Dec. 12	89	2257
Seed-corn	E. W. Conklin & Son	33,875	Dec. 12	89	2257
Seed. Grass-	Illinois Seed Company	33,397	Aug. 23	88	1523
Seed. Timothy-	E. W. Conklin & Son	33,873	Dec. 12	89	2257
Seed. Timothy-	E. W. Conklin & Son	33,874	Dec. 12	89	2257
Sensitizing material	Haller-Kemper Company	33,018	June 6	87	1777
Sewing-machines	Chicago Sewing Machine Company	33,404	Aug. 22	88	1524
Sewing-machines	J. F. Diggs	33,009	May 30	87	1606
Sewing-machines and attachments	New Home Sewing Machine Company.	33,010	May 30	87	1606
Sewing-machines and attachments therefor	New Home Sewing Machine Company.	33,107	June 20	87	2115
Sewing-machines and attachments therefor	New Home Sewing Machine Company.	33,108	June 20	87	2116
Sewing-machines and attachments therefor	New Home Sewing Machine Company.	33,109	June 20	87	2116
Sewing-machines and attachments therefor	New Home Sewing Machine Company.	33,110	June 20	87	2116
Shaft-couplings. Carriage	S. R. Bailey & Co	32,428	Jan. 24	86	630
Shampoo and wash for cleaning the hair	G. Lederer	32,549	Feb. 28	86	1495
Sharpening, grinding, boring, and polishing materials	Chemische Thermo-Industrie Gesellschaft mit Beschränkter Haftung.	32,748	Apr. 18	87	512
Sheet metal and articles manufactured therefrom. Nickelized	American Nickeloid Co	33,052	June 6	87	1780
Sheetings	Minot, Hooper & Co	32,862	May 16	87	1229
Sheetings	Minot, Hooper & Co	33,303	Aug. 8	88	1151
Sheetings	Pelzer Manufacturing Company	33,205	July 11	88	382
Sheetings	Pelzer Manufacturing Company	33,434	Sept. 5	88	1894
Sheetings	Pelzer Manufacturing Company	33,494	Sept. 26	88	2408
Sheetings. Brown	Pelzer Manufacturing Company	33,076	June 20	87	2113
Sheetings. Brown	Piedmont Manufacturing Company	32,931	May 23	87	1393
Shelving. Certain named	Winslow Bros. Company	32,906	May 16	87	1233
Shelving. Certain named	Winslow Brothers Company	33,195	July 4	88	190
Shirt-waists, wrappers, and skirts. Women's	Edson, Moore & Co	32,468	Feb. 7	86	992
Shirts and shirt-waists	Hunter & Paddock	32,599	Mar. 21	86	1979
Shirts, bed-robes, and pajamas	D. Jones & Sons	32,339	Jan. 10	86	340
Shirts, collars, and cuffs	Van Zandt, Jacobs & Co	33,532	Oct. 10	89	349
Shirts, collars, cuffs, and shirt-waists	W. H. Petzler	32,923	May 23	87	1392
Shirts, collars, cuffs, and shirt-waists	W. H. Petzler	32,924	May 23	87	1392
Shirts, collars, cuffs, and shirt-waists	W. H. Petzler	32,925	May 23	87	1392
Shirts. Men's and boys'	Bowling, Coblens & Cahn	33,298	Aug. 1	88	944
Shirtings. Heavy	Minot, Hooper & Co	33,927	Dec. 26	89	2648
Shoes	Churchill & Alden	33,801	Nov. 28	89	1857
Shoes	W. E. Cummings	33,116	June 27	87	2316
Shoes	E. B. Hafertepen	33,455	Sept. 12	88	2063
Shoes	Hayes-Partridge Shoe Company	32,470	Feb. 7	86	993
Shoes	W. A. Hungerford and F. Crocker	32,435	Jan. 31	86	794
Shoes	McRae & Bevill	32,538	Feb. 28	86	1494
Shoes	Pingree & Smith	32,688	Apr. 11	87	354
Shoes	Pingree & Smith	32,689	Apr. 11	87	354
Shoes	Pingree & Smith	32,867	May 16	87	1229
Shoes	Pingree & Smith	33,534	Oct. 10	89	349
Shoes	Pingree & Smith	33,647	Oct. 31	89	915
Shoes	Pingree & Smith	33,864	Dec. 12	89	2256
Shoes	P. C. Saul	32,630	Mar. 28	86	2167
Shoes	W. P. Taylor	33,204	July 11	88	382
Shoes. Certain named	Joseph Bannigan Rubber Company	33,863	Dec. 12	89	2256
Shoes. Ladies'	C. D. Gibbon & Son	32,490	Feb. 14	86	1166
Shoes. Ladies'	Krippendorf-Dittmann Company	33,019	June 6	87	1777
Shoes. Ladies'	A. Shuman & Co	32,866	May 16	87	1229
Shoes. Men's	G. L. Snow	33,576	Oct. 17	89	517
Shoes. Women's	G. W. Herrick & Co	32,601	Mar. 21	86	1979
Shoes. Women's and girls'	J. B. Lewis Company	33,081	June 20	87	2113
Shortening	J. C. Henderson Machine Motor and Manufacturing Company.	32,443	Jan. 31	86	795
Silk fabrics	Stirling Silk Manufacturing Company.	32,404	Jan. 24	86	628
Silver-plated ware	B. Rice's Sons	32,722	Apr. 18	87	510
Silverware. Certain named	Gorham Manufacturing Company	33,902	Dec. 19	89	2457
Silverware. Certain named	Gorham Manufacturing Company	33,903	Dec. 19	89	2457
Skates. Metal ice	Avery Stamping Company	33,609	Oct. 17	89	520
Skin-cream	J. H. Austin	33,896	Dec. 12	89	2258
Skins. Finished calf-	Ayer Tanning Company	32,972	May 30	87	1602
Skirts	Silverstein Bros	32,403	Jan. 24	86	628
Smoke in furnaces. Chemical compound for preventing	J. M. Wilson	33,004	May 30	87	1605
Snuff	August Beck & Company	32,323	Jan. 3	86	79
Snuff	Stewart Snuff Company	33,739	Nov. 14	89	1538
Snuff. Scotch	Standard Snuff Company	32,941	May 23	87	1394
Soap	R. L. Hall	33,661	Oct. 31	89	917
Soap	L. J. Maloney	33,602	Oct. 17	89	519
Soap	J. W. Montgomery and J. C. McGrigory.	32,527	Feb. 21	86	1322
Soap and perfumery	Joseph Crosfield & Sons	32,939	May 23	87	1394
Soap and soap-making materials	M. Myers	33,879	Dec. 12	89	2257
Soap and soap powders	J. Tulloch	32,528	Feb. 21	86	1322
Soap and toilet powders	M. Rink	33,332	Aug. 8	88	1154
Soap. Chip laundry	A. Conkling	32,324	Jan. 3	86	179
Soap containing petroleum	M. Jenkins	32,617	Mar. 21	86	1981
Soap containing petroleum	M. Jenkins	32,618	Mar. 21	86	1981
Soap containing petroleum	M. Jenkins	33,817	Nov. 28	89	1858
Soap, dentifrice, and hair preparations	Comfort Powder Company	32,703	Apr. 11	87	355

Alphabetical list of trade-marks—Continued.

Title.	Name.	No.	Date.	Official Gazette. Vol.	Page.
Soap for polishing silverware	A. M. Morrison	33,384	Aug. 15	88	1331
Soap for toilet purposes. Tar	Pioneer Tar Soap Company	33,293	Aug. 1	88	944
Soap. Hard	G. E. Marsh & Co	33,402	Aug. 22	88	1524
Soap in liquid form, dentifrices, and hair-tonic and dandruff cure.	H. C. Richmond	33,155	June 27	87	2320
Soap. Laundry	J. Butler	32,940	May 23	87	1394
Soap. Laundry	N. K. Fairbank Company	33,603	Oct. 17	89	519
Soap. Laundry	N. K. Fairbank Company	33,604	Oct. 17	89	520
Soap. Laundry	N. K. Fairbank Company	33,605	Oct. 17	89	520
Soap. Laundry	Lever Brothers	33,151	June 27	87	2320
Soap. Laundry	Lever Brothers	33,152	June 27	87	2320
Soap. Laundry	Lever Brothers	33,774	Nov. 21	89	1665
Soap. Laundry, toilet, and scouring	F. Acker & Co	32,526	Feb. 21	86	1321
Soap, perfumery, and toilet preparations for the teeth, skin, and hair.	M. Beetham & Son	32,938	May 23	87	1394
Soap. Polishing-	Royal Soap Co	32,634	Mar. 28	86	2168
Soap. Toilet	Enterprise Soap Works	33,632	Oct. 24	89	703
Soap. Toilet	Iowa Soap Company	33,688	Nov. 7	89	1137
Soap. Toilet	Lever Brothers	33,773	Nov. 21	89	1665
Soap. Toilet	Lever Brothers	33,944	Dec. 26	89	2650
Soap. Toilet	Lever Brothers	33,945	Dec. 26	89	2651
Soap. Toilet	C. F. Miller	33,420	Aug. 29	88	1701
Soaps	W. J. Anderson	32,705	Apr. 11	87	355
Soaps. Medicated and toilet	Kellar Soap Co	33,191	July 4	88	189
Soaps. Pulverized	D. McMeekan	32,367	Jan. 10	86	343
Soaps. Toilet and laundry	J. S. & T. Elkinton	32,704	Apr. 11	87	355
Soda-ash, bicarbonate of soda, and caustic soda	Michigan Alkali Company	32,438	Jan. 31	86	794
Soda beverage. Non-alcoholic	P. Fehler	32,874	May 16	87	1230
Soda, either alone or mixed with a powdered acid, as is common to form a baking-powder. Baking-	Church & Dwight Company	32,643	Mar. 28	86	2168
Soda, either alone or mixed with a powdered acid, as is common to form a bakiug-powder. Baking-	Church & Dwight Company	32,644	Mar. 28	86	2169
Solvents for gums and oils. Chemical	Commonwealth Manufacturing Company.	33,385	Aug. 15	88	1332
Soup-stocks and flour made from cooked grain or seeds	McMorran & Co	33,035	June 6	87	1778
Spectacles and spectacle-temples	S. G. Marshutz	33,806	Nov. 28	89	1857
Spices. Certain named	E. Rosedale	32,386	Jan. 17	86	487
Sporting goods. Certain named	Victor Sporting Goods Company	33,640	Oct. 24	89	704
Sportsmen's supply goods. Certain named	Crawford, McGregor & Canby Company.	32,542	Feb. 28	86	1494
Spray-pumps, their parts and attachments, and certain materials for spraying.	Spramotor Co	33,469	Sept. 12	88	2064
Spy-glasses and double opera-glasses	J. B. A. Baille	33,834	Dec. 5	89	2064
Stamps. Self-inking	B. B. Hill Manufacturing Company	32,343	Jan. 10	86	340
Starch	Stärke-Zucker-Fabrik-Actien-Gesellschaft, vorm. C. A. Köhlmann & Co.	33,270	July 25	88	713
Starch. Blue	Uwanta Blue Starch Company	33,188	July 4	88	189
Starch. Laundry	W. P. Clotworthy	32,515	Feb. 21	86	1320
Starch. Laundry	Eagle Starch Co	32,990	May 30	87	1604
Stationery. Certain named articles of	J. Peuser	33,616	Oct. 24	89	702
Steam-engines. High-speed	A. L. Ide & Sons	33,229	July 11	88	384
Steel balls	Steel Ball Company	33,172	June 27	87	2320
Stiffeners. Certain named garment-	J. Levi	32,407	Jan. 24	86	628
Stiffeners. Certain named garment-	A. P. McGraw	33,238	July 18	88	542
Stogies	Segal & Menzer	33,880	Dec. 12	89	2257
Stogies and cigars	C. F. Frazee	33,785	Nov. 21	89	1666
Stone. Artificial	C. Dörr & Co	33,449	Sept. 5	88	1896
Stones for ornamental settings	Benedict & Warner	33,201	July 11	88	382
Stove-blacking	W. Q. Adams	32,851	May 9	87	1071
Stoves and ranges	Scranton Stove Works	33,956	Dec. 26	89	2652
Stoves and ranges	Thomas White Stove Company	32,822	May 2	87	890
Stoves. Heating and cooking	Gem City Stove Manufacturing Company.	32,543	Feb. 28	86	1494
Strainers. Liquid-	E. S. Lagerquist	33,226	July 11	88	384
Strawboard. Composition sheets used as a substitute for	T. W. Johnson	33,120	June 27	87	2316
Straw. Compound in liquid and powdered form for cleansing	M. J. Bebb	33,701	Nov. 7	89	1138
Stud-and-cap fasteners	Electus Glove Button Shoe Company.	33,712	Nov. 7	89	1139
Sugar	American Sugar Refining Company	33,651	Oct. 31	89	916
Sugar and syrup. Maple	A. A. Low	32,834	May 9	87	1070
Sugar and syrup. Maple	A. A. Low	33,380	Aug. 15	88	1331
Sugar and syrup. Maple	A. A. Low	33,381	Aug. 15	88	1331
Sugar and syrup. Maple	A. A. Low	33,382	Aug. 15	88	1331
Sugar and syrup. Maple	A. A. Low	33,912	Dec. 19	89	2458
Sugar. Certain named	American Sugar Refining Company	33,743	Nov. 14	89	1339
Sugar. Certain named	American Sugar Refining Company	33,744	Nov. 14	89	1339
Sugar. Certain named	American Sugar Refining Company	33,745	Nov. 14	89	1339
Sugar. Certain named	American Sugar Refining Company	33,746	Nov. 14	89	1339
Sugar. Maple-	A. A. Low	33,379	Aug. 15	88	1331
Sugars. Refined	Henry Tate & Sons	32,473	Feb. 7	86	993
Sulfur for use in baths. Preparations for production of nascent	E. G. Ballard and D. Herman	33,050	June 6	87	1780
Surgical apparatus. Electrical	Seeger & Clarke	33,287	Aug. 1	88	943
Surgical bandages	Brion, Paté, Burke & Co	33,362	Aug. 15	88	1329
Surgical dressing	G. W. Carnrick	33,342	Aug. 8	88	1155
Surgical instruments and appliances	Silenette Proprietary	32,657	Mar. 28	86	2170
Suspenders	M. Bernstein & Co	32,826	May 9	87	1069
Suspenders	H. G. Macwilliam	32,865	May 16	87	1229
Suspenders and braces	Harris Suspender Co	33,304	Aug. 8	88	1151
Sweat-pads	E. L. McClain	33,610	Oct. 17	89	520
Sweat-pads and horse-collars	St. Louis Sweat Pad Works	33,310	Aug. 8	88	1152
Sweetbreads. Calves'	W. E. Miller	32,944	May 23	87	1391
Syringes and needles for same, and thermometers. Hypodermic, aspirating, and antitoxine	Becton, Dickinson & Co	33,766	Nov. 21	89	1664
Syringes and water-bottles. Fountain-	V. C. Vaňt Woud	33,361	Aug. 15	88	1329

Alphabetical list of trade-marks—Continued.

Title.	Name.	No.	Date.	Official Gazette. Vol.	Page.
Syrup	Towle Syrup Company	33,187	July 4	88	189
Syrup and molasses. Sugar-cane	Penick & Ford	33,550	Oct. 10	89	351
Syrup. Laxative	A. E. McBee	32,996	May 30	87	1605
Syrup. Maple	Arcadia Maple Company	32,986	May 30	87	1604
Syrup. Table	Towle Syrup Company	33,463	Sept. 12	88	2064
Syrups and molasses	A. Dugué	32,571	Mar. 7	86	1631
Table-dressing	J. C. Henderson Machine Motor and Manufacturing Company.	32,442	Jan. 31	86	795
Table-dressing	J. C. Henderson Machine Motor and Manufacturing Company.	32,831	May 9	87	1069
Tableware. Certain named articles of	D. H. McConnell	32,828	May 9	87	1069
Tablets. Certain sugar-coated	C. F. Ross	33,584	Oct. 17	89	517
Tablets for certain named diseases. Solution	Hance Bros. & White	32,480	Feb. 7	86	994
Tablets. Writing	G. E. St. John	33,581	Oct. 17	89	517
Tamale spice preparations	J. H. Rooney	32,774	Apr. 25	87	693
Tea	Arbuckle Bros	32,955	May 23	87	1395
Tea	Arbuckle Bros	33,214	July 11	88	383
Tea	J. W. Doane & Co	32,475	Feb. 7	86	993
Tea	F. P. Garrettson & Co	33,089	June 20	87	2114
Tea	F. P. Garrettson & Co	33,090	June 20	87	2114
Tea	F. P. Garrettson & Co	33,091	June 20	87	2114
Tea	Nippon Seicha Gaisha, (Japan Tea Firing Company.)	33,882	Dec. 12	89	2257
Tea	Sherman Bros. & Co	32,697	Apr. 11	87	355
Tea	R. L. Simpson	33,133	June 27	87	2318
Tea and coffee	H. N. Bate & Sons	32,439	Jan. 31	86	795
Tea and coffee	H. M. Humphrey	32,440	Jan. 31	86	795
Tea, cocoa, and crude and prepared chocolate for certain named purposes.	L. Beling	33,696	Nov. 7	89	1138
Tea, coffee, and cocoa	Peek, Frean & Co	33,032	June 6	87	1778
Tea. Herb	I. Caldwell	33,045	June 6	87	1779
Tea. Package	Oakford & Fahnestock	32,516	Feb. 21	86	1321
Teas and coffees	Shapleigh Coffee Company	32,640	Mar. 28	86	2168
Telephone appliances	Telephone Manufacturing Company.	32,505	Feb. 14	86	1168
Telephones, transmitters, switchboards, and their appliances	Keystone Telephone Company	32,333	Jan. 3	86	180
Telescopes	F. B. Warner	33,728	Nov. 14	89	1337
Textile fabrics made from animal or vegetable fibers	Capucine Co	33,309	Aug. 8	88	1152
Textile materials. Cleaning compounds for	J. Fitzgerald, Jr	33,383	Aug. 15	88	1331
Thermometers	Schaffer & Budenberg	33,056	June 13	87	1955
Thermometers	Schaffer & Budenberg	33,104	June 20	87	2115
Thimbles	Simons Bro. & Co	32,540	Feb. 28	86	1494
Tin and terne plates	Chas. A. Conklin Manufacturing Company.	33,448	Sept. 5	88	1896
Tinned ware. Certain named articles of	R. Wallace & Sons Manufacturing Company.	33,431	Aug. 29	88	1702
Tires	International Automobile and Vehicle Tire Company.	33,675	Oct. 31	89	918
Tires. Composition for repairing pneumatic	T. W. Moore and M. B. Grant	33,403	Aug. 22	88	1524
Tires. Pneumatic	G. T. Robie	32,623	Mar. 21	86	1982
Tires. Rubber	Milwaukee Patent Puncture Proof Tire Company.	32,454	Jan. 31	86	796
Tobacco and cigarettes. Smoking	J. & F. Bell	32,498	Feb. 14	86	1167
Tobacco and cigarettes. Smoking	J. & F. Bell	32,499	Feb. 14	86	1167
Tobacco and cigarettes. Smoking	J. & F. Bell	32,500	Feb. 14	86	1167
Tobacco and cigarettes. Smoking	J. & F. Bell	32,501	Feb. 24	86	1167
Tobacco and cigarettes. Smoking	J. & F. Bell	32,881	May 16	87	1231
Tobacco and snuff. Smoking and chewing	Gebrüder Bernard	32,354	Jan. 10	86	341
Tobacco. Certain named articles of manufactured	Sanatel Tobacco Company	33,442	Sept. 5	88	1895
Tobacco. Certain named manufactured	G. H. McCann & Co	33,326	Aug. 8	88	1154
Tobacco. Certain named manufactured	G. H. McCann & Co	33,786	Nov. 21	89	1666
Tobacco, cigars, cheroots, and cigarettes. Manufactured	Lambert & Butler	32,767	Apr. 25	87	692
Tobacco, cigars, and cigarettes. Smoking and chewing	G. H. McCann & Co	33,509	Oct. 3	89	186
Tobacco, cigars, and cigarettes. Smoking and plug	Ramson Bros. Company	33,243	July 18	88	543
Tobacco. Fine-cut chewing	Hoffman & Co	33,508	Oct. 3	89	186
Tobacco. Leaf	C. O. Shupert and W. Stroop	32,766	Apr. 25	87	692
Tobacco. Leaf	Thorpe & Ricks	33,942	Dec. 26	89	2650
Tobacco-pipes	Vuillard & Strauss	32,400	Jan. 17	86	488
Tobacco-pipes, cigar-holders, cigarette-holders, and cigarette-papers.	W. Demuth	32,423	Jan. 24	86	630
Tobacco. Scrap	Bendixen Tobacco Co	33,606	Oct. 17	89	520
Tobacco. Smoking	G. H. McCann & Co	32,645	Mar. 28	86	2169
Tobacco. Smoking	G. H. McCann & Co	33,940	Dec. 26	89	2650
Tobacco. Smoking	G. H. McCann & Co	33,941	Dec. 26	89	2650
Tobacco. Smoking and chewing	L. A. Clark	33,456	Sept. 12	88	2063
Tobacco. Smoking and chewing	B. F. Weyman	32,436	Jan. 31	86	794
Tobaccos. Certain named manufactured	Health Tobacco Company	33,182	July 4	88	188
Toilet articles and preparations. Certain named	Blondeau et Cie	32,757	Apr. 25	87	691
Toilet articles and preparations. Certain named	John Gosnell & Company	33,064	June 13	87	1955
Toilet articles and preparations. Certain named	Red Cross Drug and Chemical Company.	33,687	Nov. 7	89	1137
Toilet articles and preparations. Certain named	Roger & Gallet	33,093	June 20	87	2114
Toilet articles. Certain named	Blondeau et Cie	33,210	July 11	88	383
Toilet articles. Certain named	Firm of S. Palmer	33,421	Aug. 29	88	1701
Toilet articles. Certain named	V. Klotz	33,436	Sept. 5	88	1894
Toilet articles. Certain named	A. Lisner	32,830	May 9	87	1069
Toilet powder	C. P. Chisholm	32,829	May 9	87	1069
Toilet powder for the skin and teeth	J. Diner	33,157	June 27	87	2320
Toilet preparation	F. W. Blanchard	33,845	Dec. 5	89	2065
Toilet preparation	N. Edmonds	32,669	Apr. 4	87	177
Toilet preparation. Certain named	Dr. J. Parker Pray Company	33,359	Aug. 15	88	1329
Toilet preparation for external application	W. O. and R. G. Barclay	33,209	July 11	88	383
Toilet preparation in the form of a cream and of a soap	H. A. Stewart	33,686	Nov. 7	89	1137
Toilet preparations. Certain named	Chemische Fabrik "Rothes Kreuz"	32,701	Apr. 11	87	355
Toilet preparations. Certain named	Firm of H. Mack	32,550	Feb. 28	86	1495
Toilet preparations. Certain named	W. G. Fletcher	33,846	Dec. 5	89	2065

Alphabetical list of trade-marks—Continued.

Title.	Name.	No.	Date.	Official Gazette. Vol.	Page.
Toilet preparations. Certain named	V. Klotz	32,870	May 16	87	1230
Toilet preparations. Certain named	Ladd & Coffin	33,028	June 6	87	1778
Toilet preparations. Certain named	Lecaron & Fils	33,659	Oct. 31	89	916
Toilet preparations. Certain named	R. Lender	33,539	Oct. 10	89	350
Toilet preparations. Certain named	L. T. Piver & Cie	33,660	Oct. 31	89	916
Toilet preparations. Certain named	E. Sharum	33,738	Nov. 14	89	1338
Toilet preparations. Certain named	M. C. Whelan	32,525	Feb. 21	86	1321
Tonic	Fairchild Bros. & Foster	32,649	Mar. 28	86	2169
Tonic. Nerve and nutritive	Geo. A. Newman Company	33,588	Oct. 17	89	518
Tonics and nerve foods	R. J. Prescott	32,414	Jan. 24	86	629
Tooth-paste	S. S. White Dental Manufacturing Company.	32,479	Feb. 7	86	994
Tooth-powder	B. H. Codman	33,393	Aug. 22	88	1523
Tooth-powder	O'Rourke & Hurley	33,211	July 11	88	383
Tooth-powder receptacle	T. Hollis	32,399	Jan. 17	86	488
Toys or puzzles	J. F. Butz	32,756	Apr. 25	87	691
Trousers	Henderson Woolen Mills	32,825	May 9	87	1065
Twine	Portland Cordage Company	33,021	June 6	87	1777
Type-writer supplies. Certain named	Carter's Ink Company	32,464	Feb. 7	86	992
Type-writing machines	Commercial Typewriter Company.	32,344	Jan. 10	86	341
Type-writing machines	Commercial Typewriter Company.	32,345	Jan. 10	86	341
Umbrella-handles. Composition for	United States Chemico-Wood Company.	33,030	June 6	87	1778
Umbrellas and parasols	Allison & Lamson	33,839	Dec. 5	89	2064
Umbrellas and parasols	Arnold, Schiff & Co	33,535	Oct. 10	89	349
Umbrellas, parasols, canes, and their parts	Follmer, Clogg & Company	33,570	Oct. 17	89	516
Umbrellas, umbrella-coverings of cotton cloth with a silk finish, and umbrella-fittings.	J. Bister	33,761	Nov. 21	89	1664
Underwear	N. Hatch	33,800	Nov. 28	89	1857
Underwear	Hay & Todd Manufacturing Company.	32,340	Jan. 10	86	340
Underwear	J. Schiesser	33,305	Aug. 8	88	1151
Underwear. Certain named	Minneapolis Knitting Works	33,391	Aug. 22	88	1523
Underwear. Certain named	Otis Company	33,764	Nov. 21	89	1664
Underwear. Certain named ladies'	Worcester Corset Company	33,262	July 25	88	713
Underwear, with the exception of hosiery	W. Nuttall & Co	33,925	Dec. 26	89	2648
Vaccine virus	Pasteur Vaccine (United States and Canada) Company.	33,239	July 18	88	542
Valves	Castree & Shaw Company	33,830	Nov. 28	89	1860
Valves and steam-packing	A. B. Jenkins	32,911	May 16	87	1233
Varnish	Murphy Varnish Company	32,942	May 23	87	1394
Varnishes, japans, colors, and filling-up	Nobles & Hoare	32,590	Mar. 14	86	1802
Varnishes, surfacers, and fillers. Certain	O'Brien Varnish Company	32,677	Apr. 4	87	177
Vegetable butter	Loders & Nucoline	32,832	May 9	87	1069
Vehicles. Automatically-propelled	"Locomobile" Company of America.	33,389	Aug. 15	88	1332
Vehicles. Automatically-propelled wheeled	"Locomobile" Company of America.	33,490	Sept. 19	88	2240
Vehicles. Automatically-propelled wheeled	"Locomobile" Company of America.	33,491	Sept. 19	88	2240
Vehicles. Automatically-propelled wheeled	"Locomobile" Company of America.	33,492	Sept. 19	88	2240
Vehicles. Automatically-propelled wheeled	"Locomobile" Company of America.	33,676	Oct. 31	89	918
Vehicles. Automatically-propelled wheeled	"Locomobile" Company of America.	33,677	Oct. 31	89	918
Vehicles. Automatically-propelled wheeled	"Locomobile" Company of America.	33,678	Oct. 31	89	918
Vehicles. Automatically-propelled wheeled	"Locomobile" Company of America.	33,679	Oct. 31	89	918
Vehicles. Automatically-propelled wheeled	"Locomobile" Company of America.	33,680	Oct. 31	89	918
Vehicles. Automatically-propelled wheeled	"Locomobile" Company of America.	33,681	Oct. 31	89	918
Vehicles. Automatically-propelled wheeled	"Locomobile" Company of America.	33,682	Oct. 31	89	918
Vehicles. Automatically-propelled wheeled	"Locomobile" Company of America.	33,713	Nov. 7	89	1139
Vehicles. Automatically-propelled wheeled	"Locomobile" Company of America.	33,714	Nov. 7	89	1140
Vehicles. Automatically-propelled wheeled	"Locomobile" Company of America.	33,715	Nov. 7	89	1140
Vehicles. Automatically-propelled wheeled	"Locomobile" Company of America.	33,716	Nov. 7	89	1140
Vehicles. Automobile	Waltham Manufacturing Company.	33,612	Oct. 17	89	520
Vehicles. Automobile	Waltham Manufacturing Company.	33,613	Oct. 17	89	520
Vehicles. Certain named wheeled	James & Mayer Buggy Company	33,538	Oct. 10	89	349
Vehicles. Wheeled	Columbia Carriage Company	33,351	Aug. 8	88	1156
Vending-machines. Certain named coin-operated	W. S. O'Connor	33,405	Aug. 22	88	1524
Vermifuge	Farbenfabriken of Elberfeld Company.	33,949	Dec. 26	89	2651
Vermin and insect exterminator	E. Dowie and J. M. Oxley	32,727	Apr. 18	87	510
Veterinary medicines or remedies	C. W. Labaree	33,146	June 27	87	2319
Veterinary remedial agents	Dahm & Co	32,577	Mar. 7	86	1632
Veterinary use. Salves and ointments for	Humane Remedy Co	32,396	Jan. 17	86	487
Violin-strings	Geo. Borgfeldt & Company	33,505	Oct. 3	89	186
Wagons	Moline Plow Company	33,831	Nov. 28	89	1860
Washboards	C. W. Kennon	32,485	Feb. 7	86	994
Washing compounds	Olivine Manufacturing Co	33,189	July 4	88	189
Washing compounds	J. Pyle & Sons	33,092	June 20	87	2114
Washing compounds	W. Wainwright	33,190	July 4	88	189
Washing compounds and soap powder	J. Pyle & Sons	33,775	Nov. 21	89	1665
Washing compounds. Clothes	W. A. McCoy and C. Mann	32,706	Apr. 11	87	355
Washing fluid	H. Blum	33,029	June 6	87	1778

Alphabetical list of trade-marks—Continued.

Title.	Name.	No.	Date.	Official Gazette. Vol.	Page.
Washing fluid	M. Schmitt	33,946	Dec. 26	89	2651
Washing-tablets	Connellsville Manufacturing Company.	32,745	Apr. 18	87	512
Watchcases	Fahys Watch Case Company	32,625	Mar. 28	86	2167
Watchcases	Fahys Watch Case Company	32,686	Apr. 11	87	354
Watchcases, watch-movements, and jewelry	J. W. Sherwood	32,462	Feb. 7	86	992
Watchcases, watch-movements, and jewelry	J. W. Sherwood	32,463	Feb. 7	86	992
Watch-movements, watchcases, and watch parts	New England Watch Company	32,312	Jan. 3	86	178
Watches	American Waltham Watch Company.	32,660	Apr. 4	87	177
Watches	Elgin National Watch Company	32,311	Jan. 3	86	178
Watches	Elgin National Watch Company	32,918	May 23	87	1392
Watches	Elgin National Watch Company	33,867	Dec. 12	89	2256
Watches	New England Watch Company	33,565	Oct. 17	89	516
Watches	New England Watch Company	33,566	Oct. 17	89	516
Watches and their parts and watch-movements	American Waltham Watch Company.	33,231	July 18	88	542
Watches and their parts and watch-movements	American Waltham Watch Company.	33,233	July 18	88	542
Watches and their parts and watch-movements	American Waltham Watch Company.	33,233	July 18	88	542
Watches and their parts and watch-movements	American Waltham Watch Company.	33,234	July 18	88	542
Watches and their parts and watch-movements	American Waltham Watch Company.	33,235	July 18	88	542
Watches and watchcases	Camm Watch Case Company	33,564	Oct. 17	89	516
Water. Spring-	Quabaug Spring Water Co	33,486	Sept. 19	88	2240
Water. Spring-	Quabaug Spring Water Co	33,784	Nov. 21	89	1666
Water. Spring-	Quabaug Spring Water Co	33,881	Dec. 12	89	2257
Waters. Certain named still and aerated	Crystal Water Company	33,939	Dec. 26	89	2650
Wax. Sealing-	I. Lambert	32,791	May 2	87	887
Waxes and oils. Certain named	Vacuum Oil Company	33,600	Oct. 17	89	519
Wheat. Prepared granulated	W. E. Collins	33,748	Nov. 14	89	1339
Wheels and parts thereof. Vehicle-	Wapakoneta Wheel Company	33,636	Oct. 24	89	704
Whips. Carriage-	Pomeroy & Van Deusen	33,611	Oct. 17	89	520
Whisky	C. H. Arnold & Co	33,546	Oct. 10	89	350
Whisky	Denison, Wakeman & Co	32,476	Feb. 7	86	993
Whisky	Garrett Williams Company	32,646	Mar. 28	86	2169
Whisky	G. F. Heublein & Bro	32,979	May 30	87	1603
Whisky	G. F. Heublein & Bro	32,980	May 30	87	1603
Whisky	John Dewar & Sons	33,589	Oct. 17	89	518
Whisky	John Dewar & Sons	33,590	Oct. 17	89	518
Whisky	John Dewar & Sons	33,591	Oct. 17	89	518
Whisky	Old Nick Williams Co	33,245	July 18	88	543
Whisky	A. B. Sheaffer	32,808	May 2	87	889
Whisky	A. B. Sheaffer	32,981	May 30	87	1603
Whisky	Simms & Walker	33,811	Nov. 28	89	1858
Whisky	Steiner & Strauss	32,809	May 2	87	889
Whisky	Wichman, Lutgen & Co	32,357	Jan. 10	86	342
Whisky	Wichman, Lutgen & Co	32,741	Apr. 18	87	511
Whisky	Wright & Greig	33,457	Sept. 12	88	2063
Whisky and champagne	M. F. McDonough	32,838	May 9	87	1070
Whisky. Irish	Aspell & Company	32,495	Feb. 14	86	1166
Whisky. Refined	A. F. Richardson	32,876	May 16	87	1230
Whisky. Rock-and-rye	Aspell & Company	32,496	Feb. 14	86	1167
Whisky. Rye	Aspell & Company	32,769	Apr. 25	87	692
Whisky. Rye	B. Corr	32,421	Jan. 24	86	629
Whisky. Scotch	S. S. Pierce Company	32,497	Feb. 14	86	1167
Wicks. Lamp-	Albatross Mining and Prospecting Company.	32,566	Mar. 7	86	1631
Windmills	Stover Manufacturing Company	32,457	Jan. 31	86	796
Windows and window-frames	A. L. Bolles	33,638	Oct. 24	89	704
Wine for medicinal purposes	J. H. Hoeveler	33,139	June 27	87	2318
Wine. Scuppernong and blackberry	P. Garrett	32,875	May 16	87	1230
Wine, spirits, liqueurs, and olive-oil	A. & J. Dubos Frères et Cie	33,809	Nov. 28	89	1858
Wines	F. Korbel & Bros	33,324	Aug. 8	88	1153
Wines	Wein Company "Kloster Ley"	33,373	Aug. 15	88	1330
Wines and alcoholic liquors	S. S. Pierce Company	33,067	June 13	87	1956
Wines and liquors	Charles & Co	32,609	Mar. 21	86	1980
Wines and spirituous liquors	J. S. Draper	33,138	June 27	87	2318
Wines and whiskies	Thompson & Leavitt	32,552	Feb. 28	86	1495
Wines. Certain named	Saarburg Moselle Export, J. C. Schweimler.	33,458	Sept 12	88	2063
Wines. Domestic	Tysen & Totten	32,740	Apr. 18	87	511
Wires and cables. Certain named	Hazard Manufacturing Company	33,841	Dec. 5	89	2064
Wood-filler. Liquid	Glidden Varnish Company	32,620	Mar. 21	86	1981
Wood-fillers	J. W. Reese	32,765	Apr. 25	87	692
Woodworking machinery. Certain named	S. A. Woods Machine Company	33,227	July 11	88	384
Woolens and woolen dress goods	F. Almy & Co	33,798	Nov. 28	89	1857
Woven fabrics	C. Stohn's Sons	32,786	May 2	87	8[illegible]
Yarns	Sachs Brothers & Co	33,578	Oct. 17	89	51[illegible]
Yarns, crochet and embroidery cottons	Watson, Porter, Giles & Co	33,619	Oct. 24	89	702

ALPHABETICAL LIST OF LABELS.

Title.	Name.	No.	Date.	Official Gazette. Volume.	Page.
"A. R. Troxell's Hair Life." (For a Preparation for the Hair.)	A. R. Troxell	6,937	May 23	87	1241
"Abbey's Effervescent Salt." (For a Medicine)	Abbey Effervescent Salt Company	7,145	Oct. 3	89	1
"Abbey's Effervescent Salt." (For a Medicine)	Abbey Effervescent Salt Company	7,146	Oct. 3	89	1
"Abbey's Effervescent Salt." (For a Medicine)	Abbey Effervescent Salt Company	7,147	Oct. 3	89	1
"Abbey's Effervescent Salt." (For a Medicine)	Abbey Effervescent Salt Company	7,148	Oct. 3	89	1
"Abbey's Effervescent Salt." (For a Medicine)	Abbey Effervescent Salt Company	7,149	Oct. 3	89	1
"Abbey's Effervescent Salt." (For a Medicine)	Abbey Effervescent Salt Company	7,150	Oct. 3	89	1
"Abdallah." (For Cigarettes)	Gray Lithograph Co	7,095	Aug. 22	88	1337
"Acidtine." (For a Protective Compound)	Jaeck Bros. Company	7,012	July 11	88	195
"Adirondack Green." (For Chrome Green in Oil)	Cawley, Clark & Company	6,952	June 6	87	1613
"Adirondack Spring Water." (For Natural Spring-Water)	P. Allen and L. Blake	7,195	Nov. 7	89	923
"Admiral." (For Bottled Beer)	Wm. J. Lemp Brewing Company	6,892	Apr. 18	87	361
"Aims' Antiseptic Lotions." (For a Lotion)	W. D. P. Aims, Jr	6,884	Apr. 18	87	361
"Air of Freedom." (For Cigars)	American Lithographic Company	6,838	Mar. 7	86	1501
"Albuma." (For a Preparation for Making Beverages)	M. L. Gruenhut	7,190	Oct. 31	89	709
"Alderney Condensed Milk." (For Condensed Milk)	Mohawk Condensed Milk Company	6,990	June 27	87	2123
"Allaband's Anodyne Expectorant." (For a Cough Cure)	E. R. Allaband	6,939	May 23	87	1241
"Allston." (For Cotton Thread)	Locke Bros	6,803	Feb. 7	86	801
"Alt-Bayerisch." (For Bottled Beer)	Joseph Fallert Brewing Company	7,165	Oct. 10	89	193
"American Brown Sauce." (For a Table-Sauce)	American Sauce Co	6,864	Apr. 4	87	1
"Anderson's Cream Flakes"	W. Anderson	6,791	Jan. 31	86	635
"Anglo-Saxon Brand Peaches." (For Canned Goods)	Catton, Bell & Co	6,765	Jan. 3	86	1
"Anti-Bromodrosis." (For a Toilet Powder)	D. H. Law, Sr	7,143	Sept. 26	88	2245
"Antiseptic." (For a Sanitary Antiseptic)	J. Kofal	7,096	Aug. 22	88	1337
"Applegate's Indelible Ink." (For Ink)	Applegate Indelible Ink Co	7,126	Sept. 12	88	1901
"Arboreal Natural White Cherries." (For Canned Goods)	United States Printing Company	7,244	Dec. 19	89	2263
"Arion." (For Canned Goods)	Badger Canning Company	7,156	Oct. 3	89	1
"Armstrong's Furniture Polish." (For a Furniture Polish)	Armstrong Furniture Polish Company.	6,829	Feb. 21	86	1179
"Arrow Brand." (For Canned Salmon)	Delafield, McGovern & Co	7,202	Nov. 14	89	1145
"Atwood's Single Binder." (For Cigars)	H. P. Atwood	7,263	Dec. 26	89	2467
"Aunt Edith's Liniment." (For a Liniment)	E. A. Davis	6,959	June 6	87	1613
"Aunt Susan's Old Fashioned Wild Cherry Cough Syrup." (For Cough-Syrups.)	Keasbey & Barnekov	6,940	May 23	87	1241
"Balsamic." (For Toilet-Paper)	Scott Paper Co	6,799	Feb. 7	86	801
"Banquet Condensed Milk." (For Condensed Milk)	Charles E. Hires Company	6,912	May 9	87	897
"Basket Natural Strawberries." (For Canned Goods)	United States Printing Company	7,248	Dec. 19	89	2263
"Battle Ship Brand." (For Fruits and Vegetables)	L. Lowenthal	7,110	Aug. 29	88	1529
"Baume Analgésique Bengué." (For a Cure for Rheumatism, Gout, and Neuralgia.)	J. Bengué	6,855	Mar. 28	86	1987
"Bavarian Doppel." (For Beer)	Christian Moerlein Brewing Company.	7,057	Aug. 1	88	719
"Beacon." (For Cotton Thread)	Locke Bros	6,801	Feb. 7	86	801
"Belle of Japan." (For Tea)	F. F. Jaques	6,773	Jan. 10	86	185
"Belmont." (For Baking-Powder)	Belmont Baking Powder Co	7,069	Aug. 1	88	719
"Belmont Lithia Water." (For Lithia Water)	R. E. Richardson	6,981	June 27	87	2123
"Beloit X X Brand." (For Butter)	J. S. Morrison	7,264	Dec. 26	89	2467
"Benedict." (For Cigars, Cheroots, and Cigarettes)	L. A. Schaeffer & Company	6,948	June 6	87	1613
"Bengal." (For Cotton Goods)	S. A. Crozer & Son	7,084	Aug. 15	88	1163
"Berg's High Grade Bread." (For Bread)	C. T. Berg	7,153	Oct. 3	89	1
"Bismark Pepsin Bitters." (For Bitters)	Schuster & Co	7,142	Sept. 26	88	2245
"Black Eagle." (For Cheese)	F. C. Kuehn	6,816	Feb. 14	86	999
"Blue Grass Export." (For Lager-Beer)	Lexington Brewing Company	7,225	Dec. 5	89	1865
"Blue Jacket Brand." (For Canned Salmon)	Delafield, McGovern & Co	6,852	Mar. 28	86	1987
"Bluenose Bitters." (For Bitters)	C. E. Smith	6,983	June 27	87	2123
"Blue Ribbon." (For Condensed Milk)	Charles E. Hires Company	6,911	May 9	87	897
"Boroform." (For an Antiseptic)	S. L. Wood	6,835	Feb. 28	86	1327
"Brilliantine." (For Stove-Polish)	Brilliantine Manufacturing Co	7,186	Oct. 24	89	525
"Bromo-Fizz." (For a Headache Remedy)	Newman's Steam Bottling Works	7,023	July 18	88	389
"Brown's Hand Lotion." (For a Lotion)	E. P. Brown & Co	7,052	Aug. 1	88	719
"Burk's Dyspepsia Cure." (For a Medicine)	L. Burk & Co	6,977	June 20	87	1963
"Burnham's Cream Custard." (For a Food Preparation)	E. S. Burnham Company	6,950	June 6	87	1613
"Café Savoy." (For Canned Coffee)	C. Biele	7,046	July 25	88	549
"Campho-Phenol Antiseptic Soap." (For Soap)	C. H. Schambach	7,104	Aug. 29	88	1529
"Capsule Bluing." (For Bluing)	F. J. Godoy	7,177	Oct. 17	89	357
"Cascaramels." (For a Medicine)	J. P. Sauerwein & Co	7,127	Sept. 12	88	1901
"Cassia Fagots." (For Cassia-Bark)	Charles W. Huff Company	7,065	Aug. 1	88	719
"Centennial City Pure Rye Whiskey." (For Bottled Whisky)	S. Behr	6,904	May 2	87	701
"Checker Board Natural Red Raspberries." (For Canned Goods.)	United States Printing Company	7,250	Dec. 19	89	2263
"Chief Rheumatism Cure." (For a Medicine)	O. G. Albertson	6,867	Apr. 4	87	1
"Chloroform-Pictet." (For Chloroform)	Roessler & Hasslacher Chemical Company.	6,899	Apr. 25	87	519
"Clarke's Celery Phosphate." (For a Nerve-Tonic)	A. H. Knowlton	7,097	Aug. 22	88	1337
"Clark's Educational School Biscuit." (For Biscuits or Crackers.)	S. B. Clark	6,910	May 9	87	897
"Cleopatra's Secret." (For a Medicine)	J. G. Kiefer	6,941	May 23	87	1241
"Climax Dress Plaids." (For Dress Goods)	Elmira Cotton Mills Company	7,123	Sept. 12	88	1901
"Clover." (For Cotton Yarn or Floss)	Sondheim & Magnus	6,857	Apr. 4	87	1
"Colorado's Choice, First, Last and Always." (For Cigars)	J. H. Schaefer	7,130	Sept. 12	88	1901
"Columbian Cream Bread." (For Bread, Cake, &c)	J. G. Meinberg	7,087	Aug. 15	88	1163
"Compound Plaster of Fig Leaves." (For a Plaster)	C. Napoli	6,961	June 13	87	1787

Alphabetical list of labels—Continued.

Title.	Name.	No.	Date.	Official Gazette. Vol.	Page.
"Concord Cameras." (For Cameras)	Siegel, Cooper & Company	6,992	June 27	87	2123
"Consomme." (For Soups)	American Food Company	7,166	Oct. 10	89	193
"Corn." (For Canned Goods)	United States Printing Company	7,265	Dec. 26	89	2467
"Cornering The Filipinos." (For Games or Puzzles)	Puzzle Co	7,184	Oct. 24	89	525
"Cough and Lung Balsam." (For a Medicine)	J. J. Legate	7,113	Sept. 5	88	1707
"Crane's Best Flavoring Extracts." (For Flavoring Extracts.)	Crane Extract Co	7,154	Oct. 3	89	1
"Cremo." (For Baking-Powder)	J. J. Hanlon	7,106	Aug. 29	88	1529
"Crescent Brand." (For Plaster-of-Paris)	V. C. & C. V. King Company	7,003	July 4	88	1
"Crown Leaf." (For Cigars)	American Lithographic Company	6,839	Mar. 7	86	1501
"Crushed Violets." (For Perfumery)	Vail Brothers	6,860	Apr. 4	87	1
"Culmbacher." (For Beer)	Christian Moerlein Brewing Company.	7,059	Aug. 1	88	719
"Dager's Indian Ointment." (For an Ointment)	J. T. Bradford and R. J. Lindsay	6,848	Mar. 21	86	1807
"Dare's Elixir Mentha Pepsin." (For a Remedy for Certain Named Diseases.)	C. F. Dare & Son	6,827	Feb. 21	86	1179
"Dare's Elixir Mentha Pepsin." (For a Remedy for Certain Named Diseases.)	C. F. Dare & Son	6,828	Feb. 21	86	1179
"Deer Head Rheumatism Destroyer." (For a Medicine)	C. Hafner	6,918	May 9	87	897
"Delicious Peptonized Cream Cheese." (For Cheese)	C. L. Harrell	6,783	Jan. 24	86	493
"Diamond Calf." (For Leather)	Pfister & Vogel Leather Company	6,882	Apr. 18	87	361
"Diamond Willow Quick and Sure Hair Grower." (For a Hair-Tonic.)	Diamond Willow Hair Grower Co	6,976	June 20	87	1963
"Dodge's Sore Throat Cure." (For a Medicine)	B. E. Matthews & Co	7,167	Oct. 10	89	193
"Domestic." (For Brooms)	M. Craffey	6,999	July 4	88	1
"Douno." (For a Tonic)	Merrick Manufacturing Co	6,898	Apr. 25	87	519
"Dove Brand." (For Canned Goods)	Wight & Weslosky Company	7,266	Dec. 26	89	2467
"Dr. Bailey's Catarrh Cure." (For a Catarrh Cure)	Bailey Remedy Co	6,954	June 6	87	1613
"Dr. Bean's Guaranteed Toothache Cure." (For a Medical Compound.)	W. G. Bean & Co	6,956	June 6	87	1613
"Dr. Bee's Blood Purifier." (For a Medicine)	H. W. Backofen	7,010	July 11	88	195
"Dr. Frantz' Cream Quick Yeast." (For Baking-Powder)	T. Frantz	6,965	June 13	87	1787
"Dr. Hand's Condensed Milk with Phosphates and Hypophosphites Added." (For Condensed Milk.)	D. B. Hand	7,047	July 25	88	549
"Dr. Hyndman's Black Mixture." (For a Medicine)	J. G. Morris	6,837	Feb. 28	86	1327
"Dr. James' Miniature Headache Powders." (For Headache-Powders.)	J. W. James Company	6,907	May 2	87	701
"Dr. Kirby's Golden Formula." (For a Medicine)	Prescription Medicine Co	6,917	May 9	87	897
"Dr. Robinson's Vegetable Compound Vita-Vin." (For a Medical Compound.)	E. P. Robinson	6,957	June 6	87	1613
"Dr. Terrill's Man Restorer." (For a Medicine)	Terrill Medical and Surgical Institute.	6,847	Mar. 14	86	1637
"Dr. Wilcox's Blood Tonic Pills." (For Pills)	E. L. Wilcox & Co	7,192	Oct. 31	89	709
"Dutch Java Blend Coffee." (For Coffee)	Dayton Spice Mills Company	6,824	Feb. 21	86	1179
"Eau Sublime." (For Hair-Coloring)	H. Guilmard	7,204	Nov. 14	89	1145
"Eclipse Hog and Poultry Cholera Preventative." (For a Medicine.)	H. H. Beers & Co	7,152	Oct. 3	89	1
"Edelweiss Rocky Mountain Herbs Breast Tea." (For an Herb Compound.)	R. Bloomer	6,905	May 2	87	701
"Egyptian Water Nymphs." (For Cigarettes)	G. Grossas & Co	7,212	Nov. 28	89	1673
"El Regalo." (For Cigars)	American Lithographic Company	7,063	Aug. 1	88	719
"El Regalo." (For Cigars)	American Lithographic Company	7,064	Aug. 1	88	719
"Elcurativo Mexican Tonic." (For a Medicine)	H. Mordecai	6,843	Mar. 7	86	1501
"Elks Pastime." (For Cigars)	W. P. Wickert	7,201	Nov. 14	89	1145
"Ely's Cin-Cho Tonic." (For Medicine)	Ely Medicine Company	6,906	May 2	87	701
"Emblem Chop." (For Tea)	F. F. Jaques	6,774	Jan. 10	86	185
"Emperor." (For Flour-Bags)	W. J. Buttfield	6,779	Jan. 17	86	349
"Equity." (For Rolls of Butter)	J. W. Lansing	7,108	Aug. 29	88	1529
"Espinosa Coffee." (For Coffee)	Williams Coffee Company	7,233	Dec. 12	89	2071
"Essenic." (For a Salve or Ointment)	Essenic Manufacturing Co	6,786	Jan. 24	86	493
"Everlasting Preservative for Eggs." (For a Preservative)	F. Guiltman	7,227	Dec. 5	89	1865
"Extra Mild." (For Bottled Beer)	Pabst Brewing Company	6,878	Apr. 11	87	183
"Extra Pale." (For Beer)	Christian Moerlein Brewing Company.	7,060	Aug. 1	88	719
"Extract of Plasma." (For an Extract)	Bouillon-Stock Manufacturing Company.	6,989	June 27	87	2123
"Faceline." (For a Face-Cream)	W. H. Lotz	6,947	June 6	87	1613
"Fairy Powders." (For a Toilet Powder)	Albion Co	6,975	June 20	87	1963
"Falstaf." (For Bottled Beer)	Wm. J. Lemp Brewing Company	6,890	Apr. 18	87	361
"Febrol." (For a Medicine)	T. Bednarek	6,794	Jan. 31	86	635
"Ferro Plasteroide." (For a Liquid Filler)	Z. C. Jaeck Freres	7,128	Sept. 12	88	1901
"Filippino Solitaire." (For a Game)	C. F. and O. C. Kade	6,851	Mar. 28	86	1987
"Fill the Basket." (For Egg Food)	J. W. Barwell	6,823	Feb. 21	86	1179
"Finley's Ginseng." (For a Medicine)	C. H. Finley	6,919	May 9	87	897
"Flame-Proof Starch." (For Starch)	Flame-Proof Company	7,187	Oct. 31	89	709
"Flanagan's Baltimore Rye." (For Whisky)	Marie Antoinette Importation Company.	7,209	Nov. 21	89	1345
"Flavoring Extracts." (For Flavoring Extracts)	Tillmann & Bendel	7,017	July 11	88	195
"For Luck." (For Cigars)	American Lithographic Company	6,914	May 9	87	897
"Forbush's Headache Powders." (For Headache-Powders)	G. L. Forbush	6,785	Jan. 24	86	493
"Formaldic Soap." (For a Soap)	C. M. Eggleston	6,887	Apr. 18	87	361
"Formaseptine." (For an Antiseptic Lotion)	Lincoln Chemical Co	6,986	June 27	87	2123
"Formopilol." (For Hair Tonic)	Lincoln Chemical Co	7,178	Oct. 17	89	357
"Fragrant Leaf." (For Cigars)	American Lithographic Company	7,199	Nov. 7	89	923
"French's Pure Gold." (For Jelly)	R. T. French Company	6,901	May 2	87	701
"'G. and G.' Cleaner and Polisher." (For a Cleaning and Polishing Powder.)	G. W. & J. C. Gettier	6,924	May 16	87	1079
"Game of a Frog He Would a Wooing Go." (For a Game)	McLoughlin Brothers	6,850	Mar. 21	86	1807
"Game of Go Bang." (For a Game)	McLoughlin Brothers	7,124	Sept. 12	88	1901
"Game of Moother Goose's Christmas Party." (For a Game.)	McLoughlin Brothers	6,849	Mar. 21	86	1807
"Game of Tobogganing at Christmas." (For a Game)	McLoughlin Brothers	6,880	Apr. 18	87	361
"Game of Ups and Downs." (For a Game)	McLoughlin Brothers	6,859	Apr. 4	87	1
"Game of When the Cat's Away the Mice Will Play." (For a Game.)	McLoughlin Brothers	6,964	June 13	87	1787
"Gebhard's Red Lion Cigar." (For Cigars)	J. Gebhard	6,808	Feb. 7	86	801

Alphabetical list of labels—Continued.

Title.	Name.	No.	Date.	Official Gazette. Vol.	Page.
"Genuine Medicated French Tissue." (For a Medicine)	Silver Suds Manufacturing Co	7,081	Aug. 8	88	949
"George Washington Soda." (For Soda)	Liquid Carbonic Acid Manufacturing Co.	7,161	Oct. 10	89	193
"Gobel's Rose Bud Gum." (For Chewing-Gum)	W. H. Gobel	6,949	June 6	87	1613
"Golden Holly Leaf Natural White Cherries." (For Canned Goods.)	United States Printing Company	7,246	Dec. 19	89	2263
"Golden Maiden Hair Natural Red Raspberries." (For Canned Goods.)	United States Printing Company	7,252	Dec. 19	89	2263
"Golden Moire Antique Natural Strawberries." (For Canned Goods.)	United States Printing Company	7,247	Dec. 19	89	2263
"Golden Moire Antique Natural Whole Apricots." (For Canned Goods.)	United States Printing Company	7,241	Dec. 19	89	2263
"Golden Square Natural White Cherries." (For Canned Goods.)	United States Printing Company	7,245	Dec. 19	89	2263
"Great Western." (For Yeast-Cakes)	Great Western Yeast Company	6,895	Apr. 25	87	519
"Green Turtle Soup." (For Soup)	S. H. Everett	6,772	Jan. 10	86	185
"Greenleaf's Smoker." (For Cigars)	W. E. Greenleaf	7,020	July 18	88	389
"Guarded Spring." (For Safety-Pins)	Consolidated Safety Pin Company	6,761	Jan. 3	86	1
"H. B. Brand." (For Velveteen Skirt-Bindings)	Hockmeyer Bros	7,019	July 18	88	389
"H. F's Hair Renewer." (For a Hair Renewer)	Ferrill & Co	7,179	Oct. 17	39	357
"Hackley's Twelve Hour Cough Cure." (For a Cough Medicine.)	W. L. Hackley	6,870	Apr. 11	87	183
"Hammond's Cattle Comfort." (For a Veterinary Preparation.)	B. Hammond	6,858	Mar. 28	86	1987
"Hand Shaved Leather." (For Leather)	C. J. Omealia	6,968	June 20	87	1963
"Harbor City Brand." (For Peas)	Manitowoc Pea Packing Company	7,027	July 18	88	389
"Harbor City Brand." (For Peas)	Manitowoc Pea Packing Company	7,028	July 18	88	389
"Healio." (For a Salve)	W. Goodsell	7,094	Aug. 15	88	1163
"Hecla." (For Portland Cement)	P. H. Fairlamb Company	6,770	Jan. 3	86	1
"Hedderman's Cream Beer." (For Bottled Beer)	Ferd Heim Brewing Company	7,015	July 11	88	195
"Helen's Wonder." (For a Collapsible Hat-Box)	S. Levy	6,763	Jan. 3	86	1
"Henry Vichy's Argonite Art Works." (For Statuary and Ornaments.)	H. Vichy	6,969	June 20	87	1963
"Herbal-tea-na." (For a Medicine)	T. J. Cummings	7,093	Aug. 15	88	1163
"High Life." (For a Tonic)	J. S. Jolly	7,239	Dec. 19	89	2263
"Hippolin." (For a Veterinary Remedy)	Standard Veterinary Oil Manufacturing Company.	7,117	Sept. 5	88	1707
"Hobson's Kisses." (For Molasses Candy)	Hill & Locke	6,931	May 16	87	1079
"Hollingshead's Castor Axle Oil. (For Axle-Oil)	R. M. Hollingshead	6,874	Apr. 11	87	183
"Hood River Fruit." (For Canned Fruit)	Davidson Fruit Company	7,205	Nov. 21	89	1345
"I C Baking Powder." (For Baking-Powder)	Jaques Manufacturing Co	7,071	Aug. 1	88	719
"Iler's Sparkling Beer." (For Beer)	Gray Lithograph Co	6,971	June 20	87	1963
"Imperial Sour Mash Whiskey." (For Whisky)	Dieter & Sauer	7,240	Dec. 19	89	2263
"Imported Talcum Powder." (For Talcum Powder)	H. Weichert	6,815	Feb. 14	86	999
"Interstate." (For Bottled Beer)	Wm. J. Lemp Brewing Company	6,891	Apr. 18	87	361
"Iron-Brou." (For Soft Carbonated Drinks)	Capera Bottling Co	6,767	Jan. 3	86	1
"Irondale Spring Water." (For Bottles of Mineral-Spring Water.)	B. K. Curtis	6,768	Jan. 3	86	1
"Jackson's Jersey Balm." (For a Toilet Article)	Jackson Bros	6,985	June 27	87	2123
"Jersey Dairies." (For Condensed Milk)	Charles E. Hires Company	6,902	May 2	87	701
"Jet Oil." (For Shoe-Blacking)	S. M. Bixby	6,925	May 16	87	1079
"Jet Oil." (For Shoe-Blacking)	S. M. Bixby	6,926	May 16	87	1079
"Jumbo." (For a Medicine)	Moroney Medicine Co	7,168	Oct. 10	89	193
"Khasan's & Rosensweig's Emulsio Hypophosphatis Creosoti Comp." (For a Medical Compound.)	Khasan & Rosensweig	6,958	June 6	87	1613
"Khasan's & Rosensweig's Lung and Asthma Healer." (For a Medicine.)	Khasan & Rosensweig	6,927	May 16	87	1079
"Kidney Bean." (For a Medicine)	M. W. Logan	7,022	July 18	88	389
"Klondyke Koff Kure." (For a Medicine)	A. S. Lewis	7,238	Dec. 19	89	2263
"Komback." (For Cigars)	W. C. Curley & Co	7,077	Aug. 8	88	949
"Kona Coffee." (For Coffee)	H. Hackfeld & Company	6,845	Mar. 14	86	1637
"Kossuth Bitterwater." (For Bitterwater)	A. Falck	6,784	Jan. 24	86	493
"Kraft's Temperantia." (For a Beverage)	Du Bois Brewing Company	7,014	July 11	88	195
"Kreso-Napthol." (For a Disinfectant)	E. S. Latta	7,118	Sept. 5	88	1707
"Kupferberg Gold." (For Beverages)	C. A. Kupferberg & Co	7,140	Sept. 26	88	2245
"L. A. W. Headache Cure." (For a Medicine)	H. H. Bulger	6,955	June 6	87	1613
"La Agricultura." (For Cigars)	American Lithographic Company	7,200	Nov. 14	89	1145
"La Autoridad." (For Cigars)	American Lithographic Company	7,198	Nov. 7	89	923
"La Benita." (For Cigars)	American Lithographic Company	7,076	Aug. 8	88	949
"La Dalia." (For Cigars)	American Lithographic Company	6,946	May 30	87	1403
"La Dulzura." (For Cigars)	American Lithographic Company	6,804	Feb. 7	86	801
"La Dulzura." (For Cigars)	American Lithographic Company	6,805	Feb. 7	86	801
"La Flor de la Vuelta." (For Cigars)	American Lithographic Company	6,806	Feb. 7	86	801
"La Flor de la Vuelta." (For Cigars)	American Lithographic Company	6,807	Feb. 7	86	801
"La France." (For Peas)	C. N. Holden	7,157	Oct. 3	89	1
"La Perla de Paris." (For Cigars)	A. Neudorf	7,021	July 18	88	389
"Ladies Hard Tack." (For Hardtack)	H. Piper Company	6,831	Feb. 28	86	1327
"Ladies Hard Tack." (For Packages of Glazed or Frosted Cakes or Wafers.)	H. Piper Company	6,970	June 20	87	1963
"Lady Eve's Face Powder." (For Face-Powder)	R. O. Blaydes	7,129	Sept. 12	88	1901
"Lake Ciscoes." (For Canned Fish)	Buckeye Fish Company	7,105	Aug. 29	88	1529
"Larcieri's Great Horse Medicine." (For Horse Medicine)	G. Larcieri	6,998	July 4	88	1
"Lattice Natural Strawberries. (For Canned Goods)	United States Printing Company	7,249	Dec. 19	89	2263
"Laurel Green." (For Insecticides)	Nichols Chemical Company	6,921	May 9	87	897
"Laxa." (For a Medical Compound)	Laxa Medicine Co	6,987	June 27	87	2123
"Leila Kanum Co., Cleopatra's Charm." (For a Cosmetic)	H. S. Decker	6,908	May 2	87	701
"Lemoline Cream." (For a Preparation for the Skin)	E. C. Harrington	6,938	May 23	87	1241
"Lewis' Wonderful Pile, Eczema and Catarrh Cure." (For a Medicine.)	J. T. Lewis	7,088	Aug. 22	88	1337
"Life Boat Brand." (For Peas)	Manicowoc Pea Packing Company	7,029	July 18	88	389
"Lincoln." (For Cotton Thread)	Locke Bros	6,802	Feb. 7	86	801
"Lion Brand." (For Plaster-of-Paris)	V. C. & C. V. King Company	7,002	July 4	88	1
"Lithuanian Stomach Bitters." (For Stomach-Bitters)	Firm of J. Lowenthal	7,231	Dec. 12	89	2071
"Little Midget." (For Brooms)	Lee Broom and Duster Company	7,000	July 4	88	1
"Magaw's Favorite." (For Cheese)	Leon G. Magaw Cheese Company	7,234	Dec. 12	89	2071
"Magic Square Digital Puzzle." (For Puzzles)	E. A. Crosby	7,261	Dec. 26	89	2467

Alphabetical list of labels—Continued.

Title.	Name.	No.	Date.	Official Gazette. Vol.	Page.
"Mangani Pepto Ferrum, 'Westjen.'" (For a Medicinal Preparation.)	West & Jenney	7,082	Aug. 8	88	949
"Manna." (For a Medicine)	M. W. Logan	7,114	Sept. 5	88	1707
"Maple Leaf Hair Grower." (For a Hair Remedy)	H. L. Boynton	6,936	May 23	87	1241
"Maret's Parisian Liquid." (For a Cleansing Compound)	V. A. Maret	7,083	Aug. 8	88	949
"Marie Antoinette Club Rye." (For Whisky)	Marie Antoinette Importation Company.	7,210	Nov. 21	89	1345
"Marie Antoinette Private Stock Rye." (For Whisky)	Marie Antoinette Importation Company.	7,208	Nov. 21	89	1345
"Mason's Challenge Black Dressing." (For a Compound for Dressing Leather.)	Jas. S. Mason Company	7,270	Dec. 26	89	2467
"Mason's Challenge Black Dressing." (For a Compound for Dressing Leather.)	Jas. S. Mason Company	7,271	Dec. 26	89	2467
"Mason's Challenge Combination Russet Cleaner." (For a Compound for Cleaning Russet Leather.)	Jas. S. Mason Company	7,268	Dec. 26	89	2462
"Mason's Challenge Combination Russet Cleaner and Polish." (For a Compound for Cleaning and Polishing Russet Leather.)	Jas. S. Mason Company	7,269	Dec. 26	89	2467
"Mason's Challenge Paste Stove Polish." (For Stove-Polish)	Jas. S. Mason Company	7,228	Dec. 5	89	1865
"May Queen." (For Smoking-Tobacco)	Reynolds Tobacco Company	6,916	May 9	87	897
"McCormick, Behnke & Co. Fresh Roasted Palace Coffee." (For Coffee.)	McCormick, Behnke & Co	6,913	May 9	87	897
"McNier's Sovereign Rheumatic and Neuralgia Cure." (For a Medicine.)	Sovereign Medicine Co	6,988	June 27	87	2123
"Meadow Elixir." (For Remedy for Diseases of the Horse)	Meadow Elixir Co	6,776	Jan. 10	86	185
"Mellin's Food (Alimento de Mellin) Para Niños y Enformos." (For Food for Infants and Invalids.)	Mellin's Food Company	6,854	Mar. 28	86	1987
"Mellin's Food." (For a Food for Infants and Invalids)	Mellin's Food Company of North America.	6,798	Feb. 7	86	801
"Mellin's Food for Infants and Invalids." (For Food for Infants and Invalids.)	Mellin's Food Company	6,820	Feb. 21	86	1179
"Mellin's Infants' Food." (For Food for Infants and Invalids.)	Mellin's Food Company	6,821	Feb. 21	86	1179
"Mellin's Infants' Food." (For Food for Infants and Invalids.)	Mellin's Food Company	6,822	Feb. 21	86	1179
"Mellon's Fly Banisher." (For an Insect-Repelling Compound.	J. Mellon	7,011	July 11	88	195
"Micajah's Medicated Uterine Wafers." (For Certain Named Diseases.)	Micajah & Co	6,781	Jan. 17	86	349
"Mighill Dustin's 99 Celebrated Ointment or Salve, Mrs. S. B. Dustin, Sole Proprietress." (For an Ointment.)	S. B. Dustin	6,836	Feb. 28	86	1327
"Milo." (For Cigarettes and Smoking-Tobacco)	T. W. Surbrug	6,945	May 30	87	1403
"Minneapolis Public School Tablet." (For Writing-Tablets.)	S. H. Mitchell	7,125	Sept. 12	88	1901
"Mintone." (For a Headache Remedy)	Louisville Medicine Company	7,054	Aug. 1	88	719
"Mitchell's Anti Rust Ink." (For Ink)	J. T. Mitchell	7,206	Nov. 21	89	1345
"Mo-Kof-Fee." (For Coffee)	F. Acker & Co	7,189	Oct. 31	89	709
"Moerlein." (For Beer)	Christian Moerlein Brewing Company.	7,058	Aug. 1	88	719
"Monarch 'Stag Head' Polish." (For a Furniture-Polish)	Baird Bros. & Co	6,974	June 20	87	1963
"Morro Castle." (For Condensed Milk)	Charles E. Hires Company	6,903	May 2	87	701
"Morro Castle." (For Cigars)	Morro Castle Cigar Company	6,915	May 9	87	897
"Myron W. Reed." (For Cigars)	M. Hyman Cigar and Importing Company.	6,980	June 27	87	2123
"Napthoil Soap." (For Soap)	G. E. Marsh & Co	6,792	Jan. 31	86	635
"Narragansett Pure Rye Whiskey." (For Whisky)	T. F. Donahue Co	7,207	Nov. 21	89	1345
"National Export." (For Beer)	Christian Moerlein Brewing Company.	7,062	Aug. 1	88	719
"Natural Apricots." (For Canned Goods)	United States Printing Company	7,048	July 25	88	549
"Natural Bartlett Pears." (For Canned Goods)	United States Printing Company	7,090	Aug. 15	88	1163
"Natural Cherries." (For Canned Goods)	United States Printing Company	7,050	July 25	88	549
"Natural Early June Peas." (For Canned Goods)	United States Printing Company	7,222	Nov. 28	89	1673
"Natural Golden Wax Beans." (For Canned Goods)	United States Printing Company	7,220	Nov. 28	89	1673
"Natural Green Gages." (For Canned Goods)	United States Printing Company	7,089	Aug. 15	88	1163
"Natural Lima Beans." (For Canned Goods)	United States Printing Company	7,221	Nov. 28	89	1673
"Natural Peaches." (For Canned Goods)	United States Printing Company	7,049	July 25	88	549
"Natural Peaches." (For Canned Goods)	United States Printing Company	7,088	Aug. 15	88	1163
"Natural Red Raspberries." (For Canned Goods)	United States Printing Company	7,171	Oct. 17	89	357
"Natural Select Lima Beans." (For Canned Goods)	United States Printing Company	7,253	Dec. 19	89	2263
"Natural Strawberries." (For Canned Goods)	United States Printing Company	7,172	Oct. 17	89	357
"Natural Stringless Beans." (For Canned Goods)	United States Printing Company	7,223	Nov. 28	89	1673
"Natural Succotash." (For Canned Goods)	United States Printing Company	7,219	Nov. 28	89	1673
"Natural Sugar Corn." (For Canned Goods)	United States Printing Company	7,254	Dec. 19	89	2263
"Natural Wax Beans." (For Canned Goods)	United States Printing Company	7,218	Nov. 28	89	1673
"Natural White Cherries." (For Canned Goods)	United States Printing Company	7,173	Oct. 17	89	357
"Natural Whole Apricots." (For Canned Goods)	United States Printing Company	7,170	Oct. 17	89	357
"Neufchatel Waukeska Cream Cheese." (For Cheese)	Wisconsin Butter and Cheese Company.	6,877	Apr. 11	87	183
"New Peanut Geack." (For a Peanut Confection)	J. P. Bereolos	7,119	Sept. 5	88	1707
"Niestlie's Liniment." (For a Liniment)	W. Niestlie	7,080	Aug. 8	88	949
"Niestlie's 10c. Croup Kura." (For a Croup-Salve)	W. Niestlie	7,079	Aug. 8	88	949
"Nil Conscrire Sibi." (For a Head-Covering)	R. Peet & Co	6,869	Apr. 11	87	183
"No. 1 Mocha Java Blend." (For Coffee)	F. Acker & Co	7,131	Sept. 12	88	1901
"No. 2 Mocha Java Blend." (For Coffee)	F. Acker & Co	7,132	Sept. 12	88	1901
"No. 3 Mocha Java Blend." (For Coffee)	F. Acker & Co	7,133	Sept. 12	88	1901
"No. 4 Mocha Java Blend." (For Coffee)	F. Acker & Co	7,134	Sept. 12	88	1901
"No. 229." (For Russian Samen Getreide-Kümmel)	T. Schneider	6,797	Feb. 7	86	801
"Non-Gummable Mucilage Bottle." (For Mucilage-Bottles)	Coates Co	6,833	Feb. 28	86	1327
"Nox-Em-All Ointment." (For an Ointment)	J. Kron	6,873	Apr. 11	87	183
"Ohio Centennial Cigar." (For Cigars)	G. F. Cooper	6,930	May 16	87	1079
"Oil of Life." (For a Liniment)	S. A. Bolger	6,966	June 13	87	1787
"Old Fashion Open Kettle Plantation Molasses." (For Syrups and Molasses.)	Penick & Ford	7,155	Oct. 3	89	1
"Old Glory." (For Beer)	Abner & Drury	7,163	Oct. 10	89	193
"Old Homestead." (For Condensed Milk)	Charles E. Hires Company	7,074	Aug. 1	88	719
Old Homestead." (For Popcorn)	J. Breck & Sons	7,176	Oct. 17	89	357

Alphabetical list of labels—Continued.

Title.	Name.	No.	Date.	Official Gazette. Vol.	Page.
"Old Pure Rye Whiskey." (For Whisky)	Philadelphia Extract Manufacturing Co.	7,196	Nov. 7	89	923
"Old Reliable Rye Whiskey." (For Whisky)	United Wine and Trading Company	7,214	Nov. 28	89	1673
"Old Virginia." (For Shoes)	Fleishman, Morris & Co	6,762	Jan. 3	86	1
"Olympia." (For Cotton Piece Goods)	Massachusetts Cotton Mills	6,967	June 20	87	1963
"Olympia Brand." (For Canned Goods)	I. L. Leonard Packing Co	7,144	Sept. 26	88	2245
"Olympia Plaids." (For Cotton Cloth)	White, Williamson & Co	6,922	May 16	87	1079
"One Night Cough Cure." (For a Cough Medicine)	W. L. Hackley	6,795	Jan. 31	86	635
"Original Old Homestead." (For Pudding-Sauce)	E. M. Clough	7,136	Sept. 19	88	2069
"Oriola Baltimore Rye." (For Whisky)	J. R. Stonebraker	6,863	Apr. 4	87	1
"Our Red Poppy." (For Cigars)	American Lithographic Company	7,138	Sept. 26	88	2245
"Our Season Ticket." (For Cigars)	Bryan Bros	6,979	June 27	87	2123
"Ozone." (For a Medicine)	C. E. Baker	7,230	Dec. 12	89	2071
"P. & B. Insulating and Building Paper"	Standard Paint Company	7,005	July 4	88	1
"P. & B. Ruberoid Locomotive Cab Roofing"	Standard Paint Company	7,007	July 4	88	1
"P. & B. Ruberoid Roofing"	Standard Paint Company	7,006	July 4	88	1
"P. K. Antiseptic Compound." (For a Medicine)	J. P. Piquett	7,267	Dec. 26	89	2467
"Pan-American Exposition." (For Cigars)	C. Fette	7,078	Aug. 8	88	949
"Parfumerie Monte Carlo Hair Tonic." (For a Hair-Tonic)	M. W. Allen	6,872	Apr. 11	87	183
"Parisian Perfumed Ink." (For Perfumed Inks)	National Chemical Co	7,045	July 25	88	549
"Payette's Tar Shampoo." (For Shampoo Preparations)	G. M. Payette & Co	7,236	Dec. 12	89	2071
"Paz de Oro." (For Cigars)	American Lithographic Company	7,211	Nov. 28	89	1673
"Paz De Oro." (For Cigars)	American Lithographic Company	7,262	Dec. 26	89	2467
"Peanolia, a Refined Peanut Butter." (For Peanut-Butter)	Peanolia Food Company	7,107	Aug. 29	88	1529
"Peanut Butter." (For a Nut Food)	Atlantic Peanut Refinery	6,853	Mar. 28	86	1987
"Pearl Wedding Rye Whiskey." (For Whisky)	United Wine and Trading Company	7,213	Nov. 28	89	1673
"Pecora Asbestos Furnace Cement." (For Cement)	S. Bowen's Sons	7,100	Aug. 22	88	1337
"Peerless Black." (For Carbon-Black)	Peerless Carbon Black Company	7,001	July 4	88	1
"Peirce's Golden Rio Coffee." (For Coffee)	O. H. Peirce & Co	6,825	Feb. 21	86	1179
"Peiroco R. R. & Co." (For a Medicine)	Reinhart, Rogg & Co	7,116	Sept. 5	88	1707
"Pelka Cures Drunkenness." (For a Remedy for Drunkenness.)	J. Nihill	6,818	Feb. 14	86	999
"Perfect Drinking Water." (For Drinking-Water)	Boston Filter Company	6,994	July 4	88	1
"Perfection Brand Plum Pudding." (For Plum Pudding)	E. G. Stevenson	7,217	Nov. 28	89	1673
"Perfection Liquid Food." (For a Preparation of Milk, Beef, &c.)	W. J. Guernsey	6,766	Jan. 3	86	1
"Persperine." (For Toilet Powder)	T. W. Johnson	6,944	May 30	87	1403
"Philadelphia." (For Condensed Milk)	Charles E. Hires Company	6,995	July 4	88	1
"Phonograph Record." (For Phonograph Records)	Biglow & Main Company	7,182	Oct. 17	89	357
"Phospho-Tartrate of Sodium and Magnesium." (For a Medicine.)	Western Medical Supply Company	6,942	May 23	87	1241
"Pierre Viau's Pure Sap Maple Syrup." (For Maple-Syrup)	C. D. Cannon	7,109	Aug. 29	88	1529
"Pillsbury's Flaked Food." (For Oat Food)	Pillsbury-Washburn Flour Mills Company.	7,034	July 18	88	389
"Pillsbury's Flaked Oat Food." (For Oat Food)	Pillsbury-Washburn Flour Mills Company.	7,031	July 18	88	389
"Pillsbury's Flaked Oat Food." (For Oat Food)	Pillsbury-Washburn Flour Mills Company.	7,032	July 18	88	389
"Pillsbury's Flaked Oat Food." (For Oat Food)	Pillsbury-Washburn Flour Mills Company.	7,033	July 18	88	389
"Pillsbury's Flaked Oat Food." (For Oat Food)	Pillsbury-Washburn Flour Mills Company.	7,036	July 18	88	389
"Pillsbury's Flaked Oat Food." (For Oat Food)	Pillsbury-Washburn Flour Mills Company.	7,066	Aug. 1	88	719
"Pillsbury's Flaked Oat Food." (For Oat Food)	Pillsbury-Washburn Flour Mills Company.	7,067	Aug. 1	88	719
"Pillsbury's Flaked Oat Food." (For Oat Food)	Pillsbury-Washburn Flour Mills Company.	7,068	Aug. 1	88	719
"Pillsbury's Oat Food." (For Oat Food)	Pillsbury-Washburn Flour Mills Company.	7,035	July 18	88	389
"Pillsbury's Vitos." (For Wheat Food)	Pillsbury-Washburn Flour Mills Company.	7,037	July 18	88	389
"Pillsbury's Vitos." (For Wheat Food)	Pillsbury-Washburn Flour Mills Company.	7,038	July 18	88	389
"Pillsbury's Vitos." (For Wheat Food)	Pillsbury-Washburn Flour Mills Company.	7,039	July 18	88	389
"Pillsbury's Vitos." (For Wheat Food)	Pillsbury-Washburn Flour Mills Company.	7,040	July 18	88	389
"Pillsbury's Vitos." (For Wheat Food)	Pillsbury-Washburn Flour Mills Company.	7,041	July 18	88	389
"Pillsbury's Vitos." (For Wheat Food)	Pillsbury-Washburn Flour Mills Company.	7,042	July 18	88	389
"Pillsbury's Vitos." (For Wheat Food)	Pillsbury-Washburn Flour Mills Company.	7,043	July 18	88	389
"Pleasant Celery Headache Cure." (For a Medicine)	Marvelous Medicine Co	7,115	Sept. 5	88	1707
"Pluto Concentrated." (For Bottled Mineral Water)	Henry Drug Co	7,232	Dec. 12	89	2071
"Polar Queen." (For Cigars)	American Lithographic Company	7,085	Aug. 15	88	1163
"Porto Rico Bitters." (For Medicinal Bitters)	F. T. Alder	6,929	May 16	87	1079
"Post Haste." (For Toilet Powder)	Century Chemical Company	7,053	Aug. 1	88	719
"Prather's Eagle Cleansing Fluid." (For Cleansing Fluid)	T. H. Prather	7,025	July 18	88	389
"Premium." (For Condensed Milk)	Charles E. Hires Company	7,073	Aug. 1	88	719
"Premium Brand Salmon." (For Fish)	Oregon Canning Co	7,174	Oct. 17	89	357
"Prince's Diphtheria Cure." (For a Medicine)	F. and G. Prins	6,920	May 9	87	897
"Pure Lead and Zinc Paint Ready for Use." (For Paints and Paint Compounds.)	F. W. Devoe & C. T. Raynolds Company.	6,812	Feb. 7	86	801
"Pure Petroleo." (For a Petroleum Compound)	W. H. Loveland	6,834	Feb. 28	86	1327
"Purest Green Label Baking Powder." (For Baking-Powder.)	R. C. Long	7,185	Oct. 24	89	525
"Purified Water." (For Drinking-Water)	Boston Filter Company	6,993	July 4	88	1
"Puritan Tomatoes." (For Canned Goods)	Knowles-Lombard Company	7,169	Oct. 17	89	357
"Pyralgine." (For a Medicinal Compound)	Pyralgine Chemical Company	7,111	Aug. 29	88	1529
"Quabaug Spring Water." (For Spring-Water)	Quabaug Spring Water Co	7,191	Oct. 31	89	709
"Quality." (For Cigars)	H. W. Wiecking	7,160	Oct. 10	89	193
"Queen B Baking Powder." (For Baking-Powder)	Tillmann & Bendel	7,018	July 11	88	195
"Queen Olives." (For Olives)	C. Gulden	6,932	May 16	87	1079
"Quinacetol." (For a Medicine)	W. F. Hall	6,928	May 16	87	1079

Alphabetical list of labels—Continued.

Title.	Name.	No.	Date.	Official Gazette. Vol.	Page.
"Quinoliv." (For a Medical Compound)	D. F. Davenport	6,816	Mar. 14	86	1637
"Rainier Beer." (For Lager-Beer)	Seattle Brewing and Malting Company.	7,141	Sept. 26	88	2245
"Red Lion." (For Gin)	Cunningham & Co	6,984	June 27	87	2123
"Red Maiden Hair Natural Red Raspberries." (For Canned Goods.)	United States Printing Company	7,251	Dec. 19	89	2263
"Red Maiden Hair Natural Whole Apricots." (For Canned Goods.)	United States Printing Company	7,243	Dec. 19	89	2263
"Red, White and Blue." (For Bottled Beer)	Pabst Brewing Company	6,879	Apr. 11	87	183
"Regular." (For Beer)	Christian Moerlein Brewing Company.	7,061	Aug. 1	88	719
"Retailers Own Make. Sweetts." (For Boxes of Cigarettes.)	Retailers Cigarette Co	7,139	Sept. 26	88	2245
"Rex Baking Powder." (For Baking-Powder)	C. A. Seither	6,790	Jan. 31	86	635
"Roachine." (For Insect-Powder)	W. W. Gardner	7,216	Nov. 28	89	1673
"Rocky Ford Cantaloupes." (For Cantaloupes)	H. Woods	7,051	July 25	88	549
"Rose Bouquet." (For Cigars)	American Lithographic Company	7,137	Sept. 26	88	2245
"Rose's Exterminator." (For a Rat-Exterminator)	D. Rose	6,787	Jan. 24	86	493
"Rose's Non-Poisonous Insect Exterminator." (For an Insect-Exterminator.)	D. Rose	6,788	Jan. 24	86	493
"Roxane Pure Wheat Flour." (For Flour)	Akin Erskine Milling Co	6,789	Jan. 31	86	635
"Royal Blue." (For Certain Named Hardware and Cutlery.)	Supplee Hardware Company	6,923	May 16	87	1079
"Royal Gem." (For Coffee)	E. M. Whaley and W. C. Dashiell	7,226	Dec. 5	89	1865
"Rusk & Welch's Hair Restorer and Dandruff Cure." (For a Hair-Tonic.)	Rusk & Welch	6,865	Apr. 4	87	1
"S. Green's Compound." (For a Medicine)	S. Green	7,112	Sept. 5	88	1707
"Salmon." (For Canned Goods)	United States Printing Company	7,258	Dec. 19	89	2263
"Salmon." (For Canned Goods)	United States Printing Company	7,259	Dec. 19	89	2263
"Salmon." (For Canned Goods)	United States Printing Company	7,260	Dec. 19	89	2263
"Sarlls' Best Maple Syrup." (For Maple-Syrup)	Sarlls' Maple Syrup Co	6,896	Apr. 25	87	519
"Sarsaferine." (For a Beverage)	H. T. Jackson & Co	6,933	May 23	87	1241
"Sav-Nol." (For an Ointment)	W. C. Hasse and P. Lauth, Jr	6,819	Feb. 14	86	999
"Savina." (For a Medicinal Preparation)	N. M. Moore	6,871	Apr. 11	87	183
"Scarless Liuiment." (For a Liniment)	W. H. Cox	6,885	Apr. 18	87	361
"Schroeder's Complexion Salt." (For a Medicine)	A. F. Schroeder	7,024	July 18	88	389
"Scott's Asthma Cure." (For a Medicine)	B. F. Scott	6,866	Apr. 4	87	1
"Scour Bright." (For Scouring-Soap)	Miami Soap and Chemical Co	7,102	Aug. 29	88	1529
"Sherwood's Lithia Compound." (For a Medicine)	F. Z. Sherwood	7,151	Oct. 3	89	1
"Silver Ash." (For Stogies)	G. W. Greenlee	7,159	Oct. 10	89	193
"Silverall." (For a Cleaning and Replating Compound)	J. Reynolds	6,900	Apr. 25	87	519
"Skee-Nit." (For a Non-Intoxicating Drink)	H. Hinrichs	6,817	Feb. 14	86	999
"Smith's Indian Rheumatic & Kidney Cure." (For a Medicine.)	W. Smith	6,868	Apr. 4	87	1
"Solid Comfort for the Feet." (For a Preparation for the Feet.)	Vail Brothers	6,943	May 23	87	1241
"Sour Milk Baking Powder." (For Baking-Powder)	Hulman & Co	6,780	Jan. 17	86	349
"Sparkling Dewey." (For Beverages and Extracts Therefor.)	Sachs-Pruden Ginger Ale Co	6,982	June 27	87	2123
"Spear Bros. American Ribbon Cigar." (For Cigars)	Spear Bros	6,861	Apr. 4	87	1
"Splendorine." (For a Metal-Polish)	Western Hardware and Manufacturing Company.	6,875	Apr. 11	87	183
"Stag Stogies." (For Stogies)	G. H. Martin	7,224	Dec. 5	89	1865
"Standard." (For Snuff)	Standard Snuff Company	6,809	Feb. 7	86	801
"Standard." (For Snuff)	Standard Snuff Company	6,810	Feb. 7	86	801
"Standard." (For Snuff)	Standard Snuff Company	6,811	Feb. 7	86	801
"Standard Juno Brand Pennyroyal and Tansy Pills." (For Pills.)	G. Marsh	6,897	Apr. 25	87	519
"Standard Lager Beer." (For Bottled Beer)	Adam Scheidt Brewing Company	6,888	Apr. 18	87	361
"Stark's Hair Tonic." (For a Hair-Tonic)	J. Stark	7,009	July 11	88	195
"Stewart's Log Cabin Scotch Snuff." (For Tobacco Snuff)	Stewart Snuff Company	6,996	July 4	88	1
"Stewart's Log Cabin Scotch Snuff." (For Tobacco Snuff)	Stewart Snuff Company	6,997	July 4	88	1
"Success." (For Breakfast-Oats)	J. B. A. Kern & Sons	7,030	July 18	88	389
"Sugar Beet." (For Cigars)	Saginaw Specialty Company	6,973	June 20	87	1963
"Sugar Corn." (For Canned Goods)	United States Printing Company	7,255	Dec. 19	89	2263
"Sugar Corn." (For Canned Goods)	United States Printing Company	7,256	Dec. 19	89	2263
"Sugar Drop." (For Peas)	C. N. Holden	7,158	Oct. 3	89	1
"Superb." (For Bottled Beer)	Joseph Fallert Brewing Company	7,165	Oct. 10	89	193
"Superior Old Wine." (For Wines and Liquors)	Philadelphia Extract Manufacturing Co.	7,197	Nov. 7	89	923
"Sure Cure Salve." (For a Salve)	Keske Bros	6,909	May 2	87	701
"Sure Death." (For Insect-Paste)	C. V. Eckert	6,960	June 6	87	1613
"Sutton's Snap Shot." (For a Medicine)	R. K. Sutton	7,008	July 11	88	195
"Swan Brand." (For Canned Clams)	J. C. Gannon	7,188	Oct. 31	89	709
"Sweets." (For Confectionery)	Bay State Improved Box Company	7,235	Dec. 12	89	2071
"Takanap." (For Soap)	Thayer-Milne Co	7,092	Aug. 15	88	1163
"Tally." (For Bottled Beer)	Wm. J. Lemp Brewing Company	6,889	Apr. 18	87	361
"Tan Oil Polish." (For Shoe-Polish)	S. M. Bixby	6,842	Mar. 7	86	1501
"The Advertising Egg Box." (For Egg-Boxes)	Ritter & Halsted	6,841	Mar. 7	86	1501
"The B and P Wrinkle Eradicator." (For Wrinkle-Eradicators.)	I. H. Barber	7,203	Nov. 14	89	1145
"The Dr. Hussey Diphtheria and Family Remedy." (For Medicine.)	Dr. Hussey Medicine Co	6,777	Jan. 10	86	185
"The '400' Brand." (For Ginger-Ale)	W. N. Richardson	7,162	Oct. 10	89	193
"The Game of Captive Princess." (For a Game)	McLoughlin Brothers	6,962	June 13	87	1787
"The Game of On Guard." (For a Game)	McLoughlin Brothers	6,858	Apr. 4	87	1
"The Game of Topsy Turvy. (For a Game)	McLoughlin Brothers	6,963	June 13	87	1787
"The Great Eagle Pile Cure." (For Medicine)	W. W. Reed	6,769	Jan. 3	86	1
"The Health Drink No-Skee." (For Medical Compounds)	H. Hinrichs	6,775	Jan. 10	86	185
"The Independence." (For a Cordial or Tonic)	M. Faure	7,056	Aug. 1	88	719
"The Jester." (For Cigars)	J. Hamburger & Co	6,894	Apr. 25	87	519
"The Ketchum Pants Label." (For Trousers or Pants)	R. K. Clarke	7,122	Sept. 12	88	1901
"The Krementz, 'One Piece.'" (For Collar and Cuff Buttons)	Krementz & Co	6,771	Jan. 10	86	185
"The Marion Hog and Poultry Cholera Cure and Preventive." (For Cholera Cure for Hogs and Poultry.)	Ensminger & Fling	6,814	Feb. 14	86	999
"The Medal." (For Cigars)	American Lithographic Company	6,978	June 27	87	2123

Alphabetical list of labels—Continued.

Title.	Name.	No.	Date.	Official Gazette. Vol.	Page.
"The Merchant." (For Cigars)	H. Wuersten	7,181	Oct. 17	89	357
"The Monarch." (For Cigars)	E. Mix	6,972	June 20	87	1963
"The New Library." (For Cigars)	J. Frank & Son	7,013	July 11	88	195
"The Nightingale." (For Stringed Instruments)	C. A. Nightingale	7,101	Aug. 29	88	1529
"The Olympia Washing Gem." (For a Washing Compound)	H. Liacowsky	6,793	Jan. 31	86	635
"The Randall Cotton Felt Mattress." (For Mattresses)	Randall Mattress Company	6,840	Mar. 7	86	1501
"The Universal Building Paper"	Standard Paint Company	7,004	July 4	88	1
"Three Republics." (For Cigars.)	American Lithographic Company	6,813	Feb. 14	86	999
"Tiger Brand." (For Portland Cement)	Castalia Portland Cement Company.	6,953	June 6	87	1613
"Tillmann's Hawaiian Coffee." (For Coffee)	Tillmann & Bendel	7,016	July 11	88	195
"Tincal-Tanilid with Formaldehyd." (For Surgical Dressing.)	C. M. Eggleston	6,886	Apr. 18	87	361
"Tomatoes." (For Canned Goods)	United States Printing Company	7,257	Dec. 19	89	2263
"Trade." (For Cigars)	H. Nitzsche	6,832	Feb. 28	86	1327
"Trolley Shoe Polish." (For Shoe-Polish)	Trolley Shoe Polish Co	7,121	Sept. 5	88	1707
"Turtle Club." (For Cigars)	B. Simons & Co	7,086	Aug. 15	88	1163
"U C Baking Powder." (For Baking-Powder)	Jaques Manufacturing Co	7,070	Aug. 1	88	719
"U-Tel-U." (For a Game)	J. H. Eickershoff	7,183	Oct. 24	89	525
"Ulika Adrian's Hand Picked Roasted Coffee." (For Coffee)	G. S. Adrian	7,120	Sept. 5	88	1707
"Uncle Sam's Button Shine." (For a Cleaning and Polishing Preparation.)	R. F. Brabury	6,830	Feb. 21	86	1179
"Unique Natural Whole Apricots." (For Canned Goods)	United States Printing Company	7,242	Dec. 19	89	2263
"Urban and Suburban Mixed Paint." (For Mixed Paint)	Cawley, Clark & Company	6,951	June 6	87	1613
"Uterotone." (For Medicine)	F. M. Peironnet	7,229	Dec. 12	89	2071
"Uwanta Bath." (For Soap)	C. F. Miller	7,103	Aug. 29	88	1529
"Valley Brand." (For Condensed Milk)	Northville Condensing Company	7,026	July 18	88	389
"Velours Calf." (For Leather)	Pfister & Vogel Leather Company	6,881	Apr. 18	87	361
"Venerina." (For an Antiseptic Remedy)	Tri-Angle Chemical Company	6,778	Jan. 10	86	185
"Venus." (For Flour)	Meek, Finger & Co	6,935	May 23	87	1241
"Victoridad." (For Cigars)	American Lithographic Company	6,844	Mar. 14	86	1637
"Vin D'Ecorces." (For a Tonic)	F. L. Day	7,180	Oct. 17	89	357
"Virot's Flavors." (For Flavoring-Extract Bottles)	W. L. MacGowan	6,782	Jan. 24	86	493
"Vivax." (For Photographic Paper)	J. Carbutt	6,893	Apr. 25	87	519
"Voss Perfection Coffee." (For Coffee)	J. H. Voss & Bro	7,135	Sept. 12	88	1901
"W. C. P." (For Headache-Powders)	W. C. Powell	7,055	Aug. 1	88	719
"Washed." (For Mutton Suet or Tallow)	R. H. Andrews	6,764	Jan. 3	86	1
"Waukesha Cream Cheese." (For Cheese)	Wisconsin Butter and Cheese Company.	6,876	Apr. 11	87	183
"Wearwell." (For Clothing)	Youngstown Dry Goods Company	7,075	Aug. 8	88	949
"Webb's Blood Renewer and Anti-Rheumatic." (For a Medical Compound.)	G. B. Webb	6,796	Jan. 31	86	635
"Whitar." (For Soap)	Clinton Soap Company	7,091	Aug. 15	88	1163
"White Foam." (For Flour)	Roberts Bros	7,175	Oct. 17	89	357
"White House." (For Condensed Cream)	Charles E. Hires Company	7,072	Aug. 1	88	719
"White Plume Patent Flour." (For Flour)	Callahan & Sons	7,193	Nov. 7	89	923
"Wi-mo-dau-sis." (For Shoes)	W. Hahn	6,800	Feb. 7	86	801
"Wide Awake Maryland Rye." (For Whisky)	J. R. Stonebraker	6,862	Apr. 4	87	1
"Wilson's Old Colony Sap." (For Maple-Syrup)	F. P. Wilson & Co	6,934	May 23	87	1241
"Woolford's Head-Aid." (For Medicines)	Woolens' Drug Company of Baltimore City.	6,883	Apr. 18	87	361
"Wright's Condensed Smoke." (For Condensed Smoke)	E. H. Wright & Co	6,991	June 27	87	2123
"Wurtzberger Malt Extract." (For Malt Extract)	W. E. Beckham	6,826	Feb. 21	86	1179
"Yankee Cleaner." (For a Cleaning Compound)	Chicago Wood Finishing Company	7,194	Nov. 7	89	923
"Yankee House Cleaner." (For a Cleaning Preparation)	Chicago Wood Finishing Company	7,099	Aug. 22	88	1337
"Ye Colonial Papers." (For Writing-Paper)	Edw. Malley Company	7,237	Dec. 19	89	2263
"Yellow Pine Compound." (For a Medical Compound)	Yellow Pine Extract Co	7,044	July 25	88	549
"Young's Witch Hazel and Almond Cream." (For a Toilet Preparation.)	J. F. Young	7,215	Nov. 28	89	1673

PRINTS.

Title.	Name.	No.	Date.	Official Gazette. Volume.	Page.
"A Bunch of Cobea." (For Paste for Mounting Photographs.)	C. M. Higgins	121	Apr. 4	87	1
"A Pleasant Duty." (For Whisky)	Sentenne & Green	99	Jan. 31	86	635
"A Winner." (For Cigars and Cigarettes)	H. Traiser & Co	141	May 30	87	1403
"Alone on the Summit." (For Glazed Kid Leather)	American Leather Company	108	Feb. 21	86	1176
"Anheuser-Busch." (For Beer)	Gray Lithograph Co	175	Oct. 17	89	357
"Anticipation." (For Champagne)	Sentenne & Green	100	Jan. 31	86	635
"Assortment No. 17." (For Fur and Wool Hats)	J. S. Shields & Co	110	Feb. 28	86	1327
"Assortment No. 23." (For Straw and Crash Hats)	J. S. Shields & Co	109	Feb. 28	86	1327
"Beefwine." (For a Wine)	J. R. Smith & Co	116	Mar. 21	86	1807
"Clark's Gold Flower." (For Coffee)	H. W. Clark & Co	112	Mar. 14	86	1637
"Colorite." (For Liquid Coloring-Matter)	Carpenter-Morton Company	96	Jan. 10	86	185
"Congress Playing Cards." (For Playing-Cards)	United States Playing Card Company.	176	Oct. 31	89	709
"Department Store Game Card." (For a Game)	McLoughlin Brothers	106	Feb. 14	86	999
"Dewey Celebration." (For Confetti)	Schall & Co	171	Sept. 26	88	2245
"Dirt Must Go—Dreydoppel-Soap." (For Soap)	M. D. Wood Printing Co	177	Oct. 31	89	709
"Dreydoppel's Lock." (For Soap)	M. D. Wood Printing Co	158	Aug. 15	88	1163
"Eddy Valves." (For Valves)	Mohawk & Hudson Manufacturing Company.	144	June 6	87	1613
"Elevator." (For Coffee)	W. G. Mulligan	136	May 9	87	897
"Everett's Snow Flake Baking Powder." (For a Baking-Powder.)	S. H. Everett	157	Aug. 8	88	949
"Everything Electric." (For Electrical Appliances)	W. D Marrow	133	May 2	87	701
"Feder's Pompadour Skirt Protector." (For Skirt-Protectors.)	J. W. Goddard & Sons	143	May 30	87	1403
"Fermented Milk Food." (For a Food)	M. L. Arakelian	156	Aug. 8	88	949
"Fit Reform Clothing." (For Clothing)	Saks & Co	95	Jan. 3	86	1
"Fit Reform Garments." (For Clothing)	Saks & Co	94	Jan. 3	86	1
"Frog He Would a Wooing Go Game Card." (For a Game)	McLoughlin Brothers	114	Mar. 21	86	1807
"From Bean to Cup." (For Cocoa and Chocolate)	Huyler's	192	Dec. 26	89	2467
"Fur and Wool Hats." (For Hats)	J. S. Shields & Co	166	Sept. 12	88	1901
"Fur and Wool Hats." (For Hats)	J. S. Shields & Co	167	Sept. 12	88	1901
"Fur and Wool Hats." (For Hats)	J. S. Shields & Co	168	Sept. 12	88	1901
"Fur and Wool Hats." (For Hats)	J. S. Shields & Co	169	Sept. 12	88	1901
"Game of Battles or Fun for Boys." (For a Game)	McLoughlin Brothers	163	Sept. 12	88	1901
"Glauber's High Grade Brass Goods." (For Plumbers' Supplies.)	Glauber Brass Manufacturing Co	155	July 25	88	549
"Gunther's Great Scott." (For Candy)	C. F. Gunther	150	July 11	88	195
"H. W. Johns' Asbestos Roofings." (For Insulating Materials, &c.)	H. W. Johns' Manufacturing Company.	134	May 2	87	701
"Hindoo Tobacco Cure." (For a Tobacco Cure)	Milford Drug Co	140	May 23	87	1241
"Honeymoon." (For Beer)	Sentenne & Green	101	Jan. 31	86	635
"Huyler's Cocoa and Chocolate From the Bean." (For Cocoa and Chocolate.)	Huyler's	187	Dec. 5	89	1865
"Iosota." (For Flour)	Derby Mill and Elevator Company.	184	Nov. 28	89	1673
"J. B. Hair Restorative." (For a Hair-Restorative)	J. B. Green	162	Sept. 5	88	1707
"Jolly Set." (For Beer)	Sentenne & Green	103	Jan. 31	86	635
"Ladies' Millinery Trimmed Hats." (For Hats)	J. S. Shields & Co	165	Sept. 12	88	1901
"Laxative Fruit Juice." (For a Laxative)	J. von Werthern	188	Dec. 5	89	1865
"McCormick, Behnke & Co. Fresh Roasted Palace Coffee." (For Coffee.)	McCormick, Behnke & Co	135	May 9	87	897
"Mennen's Borated Talcum Powder." (For Talcum Powder)	Gibbs & Williams Company	149	July 4	88	1
"Men's and Boys' Winter Caps." (For Caps)	J. S. Shields & Co	164	Sept. 12	88	1901
"Mill End." (For Fabrics)	C. A. Lockhart	147	July 4	88	1
"Mother Goose's Christmas Party Game Card." (For a Game.)	McLoughlin Brothers	113	Mar. 21	86	1807
"Mother's Helper." (For Sewing-Machines)	Singer Manufacturing Company	123	Apr. 11	87	183
"National Automatic Hanging Spring Scales." (For Computing-Scales.)	National Computing Scale Company.	130	Apr. 25	87	519
"National Platform Computing Scale." (For Computing-Scales.)	National Computing Scale Company.	128	Apr. 25	87	519
"Never-Rip-Em." (For Shoes)	Ellet Bros. Shoe Company	179	Oct. 31	89	709
"Never-Rip-Em." (For Shoes)	Ellet Bros. Shoe Company	181	Nov. 14	89	1145
"New York Gone Wild." (For Harmonicas)	F. Strauss	173	Oct. 17	89	357
"No. 39. Trophy Whist." (For Playing-Cards)	United States Playing Card Company.	174	Oct. 17	89	357
"Old Dominion Baking Powder." (For Baking-Powder)	C. F. Sauer Company	117	Mar. 28	86	1987
"Opticura." (For a Medicinal Preparation)	W. E. Conroy	105	Feb. 7	86	801
"Our Sailor Boy." (For Naval Block Toys)	R. Bliss Manufacturing Company	148	July 4	88	1
"Our 20th Century Cigars." (For Cigars)	J. Goodhart	180	Nov. 7	89	923
"Our Winner." (For Bicycles)	M. A. Gilman	161	Aug. 29	88	1529
"Palo." (For Games)	C. F. Blomberg and C. P. Randolph	107	Feb. 14	86	999
"Perfection Joint Cement." (For Cement)	C. P. Easton	151	July 11	88	195
"Picnic." (For Beer)	Sentenne & Green	104	Jan. 31	86	635
"Pink of Perfection Silver Polish." (For Cleaning and Polishing Preparations.)	B. F. Arthur	111	Mar. 7	86	1501
"Presenting Testimonials." (For Puncture-Proof Tires)	Milwaukee Patent Puncture-Proof Tire Company.	183	Nov. 21	89	1345
"Prince of Wales Egyptian Cigarettes." (For Cigarettes)	Manz Photographing Company	132	May 2	87	701
"Pro Bono Publico." (For Directories)	Association of American Directory Publishers.	139	May 23	87	1241
"Puritan." (For Shoes)	Puritan Shoe Company	152	July 11	88	195

Alphabetical list of prints—Continued.

Title.	Name.	No.	Date.	Official Gazette. Vol.	Page.
"Purity." (For Beer)	Sentenne & Green	102	Jan. 31	86	635
"Quaker Whist Cards." (For a Game)	McLoughlin Brothers	115	Mar. 21	86	1807
"Qualified Judges." (For Cigars)	C. Upmann	127	Apr. 25	87	519
"Rega Veta." (For a Brick and Stone Renovator and Preservative.)	V. V. Whitney & Co	122	Apr. 4	87	1
"Repetti." (For Confectionery)	C. Repetti	154	July 25	88	549
"Rigby." (For Cigars)	D. E. Holland	189	Dec. 19	89	2263
"Rocky Mountain Souvenir Playing Cards." (For Cards)	T. W. Jones	160	Aug. 29	88	1529
"Royal Blue." (For Certain Named Hardware and Cutlery.)	Supplee Hardware Company	137	May 16	87	1079
"Sam, My Boy! I Recommend You to Write for a Free Sample of Kutnow's Effervescent Powder, England's Standard Remedy." (For Kutnow's Effervescent Powder.)	Kutnow Bros	170	Sept. 12	88	1901
"Show Me Soap." (For Soap)	Dreisbach & Schambach	138	May 16	87	1079
"Squire's Pig Puzzle." (For Pig Products)	John P. Squire & Company	125	Apr. 18	87	361
"St. Andrews Cold Tea." (For a Medicine)	Andrews Manufacturing Co	118	Mar. 28	86	1987
"St. Andrews Cold Tea." (For a Medicine)	Andrews Manufacturing Co	119	Mar. 28	86	1987
"St. Andrews Cold Tea." (For a Medicine)	Andrews Manufacturing Co	120	Mar. 28	86	1987
"'Success' Did It." (For Flour)	J. B. A. Kern & Sons	153	July 18	88	389
"Sunrays Disinfectant." (For a Deodorizer and Germicide)	Howard & Keith	182	Nov. 14	89	1145
"The Alliance." (For Playing-Cards)	New York Consolidated Card Company.	97	Jan. 24	86	493
"The Best What Gives." (For Beverages)	J. Graf	142	May 30	87	1403
"The Elgin Shirt." (For Shirts)	Cutter & Crossette	93	Jan. 3	86	1
"The Gait That Sets the Pace." (For Valves)	Mohawk & Hudson Manufacturing Company.	145	June 6	87	1613
"The Great Southern Candy Department." (For Candy)	G. Blome & Son Co	172	Oct. 3	89	1
"The Labori $3.50 Shoe." (For Shoes)	W. Edelstein	178	Oct. 31	89	709
"The National Automatic Computing Scale." (For Computing-Scales.)	National Computing Scale Company.	129	Apr. 25	87	519
"The New Poker Squeezer." (For Playing-Cards)	New York Consolidated Card Company.	98	Jan. 24	86	493
"The Pioneer Water Supply House of Texas." (For Windmills, &c.)	F. F. Collins Manufacturing Co	126	Apr. 18	87	361
"The Reader." (For Sewing-Machines)	Singer Manufacturing Company	185	Dec. 5	89	1865
"The Real Carbon Battery." (For Carbon-Batteries)	National Carbon Company	190	Dec. 19	89	2263
"The Tea Party." (For Sewing-Machines)	Singer Manufacturing Company	124	Apr. 11	87	183
"The Writer." (For Sewing-Machines)	Singer Manufacturing Company	186	Dec. 5	89	1865
"Upmann's Extra 5." (For Cigars)	C. Upmann	146	June 27	87	2123
"Wahl's Bouillon." (For Bouillon)	Bouillon Stock Manufacturing Company.	131	May 2	87	701
"Wilson's Jersey Herd." (For Breeding Stock and Dairy Products.)	F. M. Wilson	159	Aug. 22	88	1337
"You Can Trust Your Neck on a Miller Ladder." (For Ladders.)	Miller Ladder Co	191	Dec. 19	89	2263

DISCLAIMER.

Invention.	Patentee.	No. of patent.	Date of patent.	Disclaimer filed.	Official Gazette. Volume.	Page.
Chest and neck protector	John H. Way	593,954	Nov. 16, 1897	Nov. 6, 1899	89	1145

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